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Remedial Investigation/Feasibility Study for the 100-FR-1, 100-FR-2, 100-FR-3, 100-IU-2, and 100-IU-6 Operable Units

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Appendix E

Waste Site Table

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Contents

Table

Note: Table E1, Waste Site Description and Status Table is in electronic format and recorded on compact disk included with this appendix.

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Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-1	Depression/ Pit (non-specific)	100-FR-2	2.44 m x 2.44 m (8 ft x 8 ft)	Not Documented	The site is a depression that may be the location of a valve box along the raw water line that went from 190-C to the Pump House for the Radiological Science Laboratory Building and the Grazing Plot. During the April 1999 visit, metal and wooden stakes were observed on the ground and a soil gas probe was visible.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-F-2	Laboratory	100-FR-2	24.4 m x 9.4 m (80 ft x 31 ft)	1952 - 1970	The site was a garden plot that was established to study the behavior of plants grown in soil containing cesium‑137 and strontium-90, under controlled conditions of soil tillage, irrigation, cropping, and abandonment. The waste was contaminated soil. Approximately 39 µCi of strontium-90 and 120 µCi of cesium-137 were added to the soil for botany experiments.	Interim Closed Out	CVP-2001-00001	5-Dec-01	9-Jan-02	13-Feb-02	1,269	1.6	Cesium-137	0.35	\	0.217	\	\	\	\
													Strontium-90	0.222	\	0.128	\	\	\	\
100-F-4	French Drain	100-FR-1	30 cm (12 in.) diameter - clay pipe 1.3 cm (0.5 in.) diameter - steel pipe	Not Documented	The site was a French drain constructed of vitrified clay pipe or similar material and filled with gravel. A steel pipe entered the drain from the 108-F Building. The site was excavated and waste was disposed at ERDF as part of the D&D of the 108-F Laboratory Building in 1999. The site was not sampled to verify cleanup at that time. Verification samples were collected with the remediation of 100-F-15 in 2002. The 100-F-4, 100-F-11, and 100-F-16 French drains were considered analogous to the 100-F-15 French drain and were verified as clean by excavating. In addition, test pits were sampled at each location.	Interim Closed Out	CVP-2002-00001	8-Aug-99	5-Dec-01	5-Feb-02	None	4.7	Plutonium-238	0.017U (Test Pit)	\	See 100-F-15	\	\	\	\
													Plutonium-239/240	0.052 (Test Pit)	\	See 100-F-15	\	\	\	\
													Chromium (total)	16 (Test Pit)	\	See 100-F-15	\	\	\	\
													Chromium (hexavalent)	3.2 (Test Pit)	\	See 100-F-15	\	\	\	\
100-F-5	French Drain	100-FR-1	1.22 m (4 ft) diameter	Not Documented	The site is a French drain (drywell). The purpose of the site was to receive boiler steam condensate from blowdown valves. Steam condensate is nondangerous and nonradioactive.	Rejected	WSRF 97-001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-F-6	Storage Tank	100-FR-1	Not Documented	1945	The site was the 1716-FA Automotive Repair Shop gas tanks and gas pumps. The facilities probably operated during the 100-F site construction period and were then removed, along with many other temporary construction or temporary construction buildings.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-7	Storage Tank	100-FR-1	3,800 L (1,000 gal) capacity	1948	The site was an underground fuel tank that supplied the oil furnace in the 1705-F Building heater room. When the 1705-F Building and surrounding facilities were demolished in 1975, records did not indicate the tank was also removed. A site evaluation was conducted to assess the presence of contaminated media and to determine if the underground fuel tank was still present. One test pit was excavated at the center of the suspected underground fuel tank location, to a depth of 2.4 m (8 ft), where native soil was encountered. The tank was not present. A soil sample was collected from the bottom of the test pit and submitted for laboratory analysis.	No Action	WSRF 2004-124	N/A	N/A	10/13/2004 (confirmatory sampling)	None	2.4 (confirmatory sampling)	Americium-241	0.36 U	\	\	\	\	\	\
													Cesium-137	0.040 U	\	\	\	\	\	\
													Cobalt-60	0.042 U	\	\	\	\	\	\
													Europium-152	0.12 U	\	\	\	\	\	\
													Europium-154	0.17 U	\	\	\	\	\	\
													Europium-155	0.15 U	\	\	\	\	\	\
													Gross alpha	7.29	\	\	\	\	\	\
													Gross beta	20.4	\	\	\	\	\	\
													Potassium-40	17.2	\	\	\	\	\	\
													Radium-226	0.648	\	\	\	\	\	\
													Radium-228	1.05	\	\	\	\	\	\
													Thorium-228	0.72	\	\	\	\	\	\
													Thorium-232	1.05	\	\	\	\	\	\
													Uranium-235	0.17 U	\	\	\	\	\	\
													Uranium-238	6.1 U	\	\	\	\	\	\
													Aluminum	6100 C	\	\	\	\	\	\
													Antimony	0.273 UJ	\	\	\	\	\	\
													Arsenic*	2.7	\	\	\	\	\	\
													Barium*	72.5	\	\	\	\	\	\
													Beryllium*	0.344	\	\	\	\	\	\
													Boron*	1	\	\	\	\	\	\
													Cadmium*	0.123	\	\	\	\	\	\
													Calcium	3500 C	\	\	\	\	\	\
													Chromium (total)*	9.9	\	\	\	\	\	\
													Cobalt*	6	\	\	\	\	\	\
													Copper*	11.8	\	\	\	\	\	\
													Iron	17200	\	\	\	\	\	\
													Lead*	4.3	\	\	\	\	\	\
													Magnesium	3610 C	\	\	\	\	\	\
													Manganese*	262	\	\	\	\	\	\
													Mercury*	0.131	\	\	\	\	\	\
													Molybdenum*	0.299	\	\	\	\	\	\
													Nickel*	10.2	\	\	\	\	\	\
													Potassium	1310	\	\	\	\	\	\
													Selenium	0.35 U	\	\	\	\	\	\
													Silicon	337 J	\	\	\	\	\	\
													Silver	0.08 U	\	\	\	\	\	\
													Sodium	164 C	\	\	\	\	\	\
													Vanadium*	38.4	\	\	\	\	\	\
													Zinc*	43.8	\	\	\	\	\	\
													TPH	35.6 U	\	\	\	\	\	\
													PCBs	0.014 U	\	\	\	\	\	\
													SVOAs	0.89 U	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered COPCs.							
100-F-8	French Drain	100-FR-1	0.91 m (3 ft) diameter	Not Documented	This site was two French drains constructed of concrete pipe and of unknown length buried to a depth that placed their upper surfaces a few inches above grade. Both drains were of the type frequently used to receive steam condensate from aboveground steam lines. Steam condensate is nondangerous and nonradioactive.	Rejected	WSRF 97-002	N/A	N/A	N/A	21.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-9	French Drain	100-FR-1	0.91 m (3 ft) diameter	Not Documented	The site was a concrete pipe buried to an unknown depth. The upper surface was a few inches above grade and cobble-filled. The unit was fed by one or more 2.5 cm (1 in.) steel pipes originating from the 105-F Building. Only one pipe was visible prior to the 105-F Reactor decommissioning project. It is believed that the 100-F-9 French drain received steam condensation via lines from the 105-F miscellaneous storage room building steam heaters.	No Action	WSRF 2004-129 Attachment to WSRF-2004-125	1999 (demolition)	N/A	9/21/2004 (confirmatory sampling)	N/A	2.1 (sampling depth)	Americium-241	0.12 U	\	\	\	\	\	\
													Cesium-137	0.038 U	\	\	\	\	\	\
													Cobalt-60	0.045 U	\	\	\	\	\	\
													Europium-152	0.12 U	\	\	\	\	\	\
													Europium-154	0.15 U	\	\	\	\	\	\
													Europium-155	0.085 U	\	\	\	\	\	\
													Gross alpha	13.2	\	\	\	\	\	\
													Gross beta	22.8	\	\	\	\	\	\
													Potassium-40	15.7	\	\	\	\	\	\
													Radium-226	0.495	\	\	\	\	\	\
													Radium-228	0.753	\	\	\	\	\	\
													Thorium-228	0.744	\	\	\	\	\	\
													Thorium-232	0.753	\	\	\	\	\	\
													Uranium-235	0.14 U	\	\	\	\	\	\
													Uranium-238	5.1 U	\	\	\	\	\	\
													Aluminum	6810	\	\	\	\	\	\
													Antimony	0.3 UJ	\	\	\	\	\	\
													Arsenic*	2.6	\	\	\	\	\	\
													Barium*	42.3	\	\	\	\	\	\
													Beryllium*	0.22	\	\	\	\	\	\
													Boron*	2.3	\	\	\	\	\	\
													Cadmium*	0.06	\	\	\	\	\	\
													Calcium	4810 C	\	\	\	\	\	\
													Chromium (total)*	13.9	\	\	\	\	\	\
													Chromium (hexavalent)	0.21 U	\	\	\	\	\	\
													Cobalt*	5.7	\	\	\	\	\	\
													Copper*	13.6	\	\	\	\	\	\
													Iron	19000	\	\	\	\	\	\
													Lead*	4.7	\	\	\	\	\	\
													Magnesium	4200 C	\	\	\	\	\	\
													Manganese*	273 C	\	\	\	\	\	\
													Mercury*	0.41	\	\	\	\	\	\
													Molybdenum*	0.17	\	\	\	\	\	\
													Nickel*	11.6	\	\	\	\	\	\
													Potassium	832 C	\	\	\	\	\	\
													Selenium	0.39 U	\	\	\	\	\	\
													Silicon	115 C	\	\	\	\	\	\
													Silver	0.09 U	\	\	\	\	\	\
													Sodium	193 C	\	\	\	\	\	\
													Vanadium*	48.2	\	\	\	\	\	\
													Zinc*	38.3 C	\	\	\	\	\	\
													PCBs	0.014 U	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs.							
100-F-10	French Drain	100-FR-1	0.91 m (3 ft) diameter	1944-2002	The site was a French drain located adjacent to the southeast corner of the Miscellaneous Storage Room of the 105-F Reactor Building. The site was a vertically buried 76.2 cm (30-in.) diameter concrete pipe. The unit was fed by one or more steel pipes coming from the 105‑F Reactor Building. The 100‑F-10 French drain was removed in its entirety during excavation of the 100‑F-19:2 pipeline. However, documentation of the 100-F-10 remedial action was inadvertently omitted from CVP‑2001‑00003. Therefore, the close-out documentation for the remediation of 100‑F‑10 French drain was noted in CVP‑2003‑00017.	Interim Closed Out	CVP-2003-00017	See CVP-2001-00003 for cleanup verification sampling results; close out documentation is in CVP-2003-00017.												
100-F-11	French Drain	100-FR-1	0.46 m (18 in.) diameter	1943-1999	The site was a French drain constructed of concrete pipe of unknown length. The unit had no cover and was filled with gravel. A steel pipeline entered the drain from the 108-F Building. The site was excavated and waste was disposed at the ERDF as part of the D&D of the 108-F Laboratory Building in 1999. The site was not sampled to verify cleanup at that time. Site excavation was reported in BHI-01399. Verification samples were collected with the remediation of 100-F-15 in 2002. The 100-F-4, 100-F-11, and 100-F-16 French drains were considered analogous to the 100-F-15 French drain, and were verified as clean by excavating. Test pits were sampled at each location.	Interim Closed Out	CVP-2002-00001	8-Aug-99	5-Dec-01	7-Feb-02	None	4.6	Plutonium-238	0.015U (Test Pit)	\	See 100-F-15	\	\	See 100-F-15	\
													Plutonium-239/240	0.015U (Test Pit)	\	See 100-F-15	\	\	See 100-F-15	\
													Chromium (total)	12 (Test Pit)	\	See 100-F-15	\	\	See 100-F-15	\
													Chromium (hexavalent)	0.41U (Test Pit)	\	See 100-F-15	\	\	See 100-F-15	\
100-F-12	French Drain	100-FR-1	0.91 m (3 ft) diameter	1944-1965	The site was a concrete pipe buried to an unknown depth. The upper surface of the drain was a few inches above grade and had a steel lid (manhole cover). The drain was fed by five steel pipes coming from the northeast corner of the 105‑F Reactor Building. Based on the pipe size, it is believed that these pipes may have been steam condensate lines associated with the building's steam heaters.	No Action	WSRF 2004-126	N/A	N/A	11-Oct-04 (confirmatory sampling)	None	4	Americium-241	0.18 U	\	\	\	\	\	\
													Carbon-14	4.1 U	\	\	\	\	\	\
													Cesium-137	0.059 U	\	\	\	\	\	\
													Cobalt-60	0.07 U	\	\	\	\	\	\
													Europium-152	0.2 U	\	\	\	\	\	\
													Europium-154	0.24 U	\	\	\	\	\	\
													Europium-155	0.13 U	\	\	\	\	\	\
													Gross alpha	8.84	\	\	\	\	\	\

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Gross beta	18.7	\	\	\	\	\	\
													Potassium-40	14.8	\	\	\	\	\	\
													Radium-226	0.572*	\	\	\	\	\	\
													Radium-228	0.748*	\	\	\	\	\	\
													Thorium-228	0.872	\	\	\	\	\	\
													Thorium-232	0.748*	\	\	\	\	\	\
													Uranium-235	0.19 U	\	\	\	\	\	\
													Uranium-238	7.8 U	\	\	\	\	\	\
													Aluminum	6670	\	\	\	\	\	\
													Antimony	0.29 UJ	\	\	\	\	\	\
													Arsenic*	2.8	\	\	\	\	\	\
													Barium*	68.7	\	\	\	\	\	\
													Beryllium*	0.44	\	\	\	\	\	\
													Boron*	0.99 J	\	\	\	\	\	\
													Cadmium*	0.11	\	\	\	\	\	\
													Calcium	3560	\	\	\	\	\	\
													Chromium (total)*	10.5 J	\	\	\	\	\	\
													Cobalt*	6.9	\	\	\	\	\	\
													Copper*	12.9	\	\	\	\	\	\
													Chromium (hexavalent)	0.22 U	\	\	\	\	\	\
													Iron	19700	\	\	\	\	\	\
													Lead*	4.5	\	\	\	\	\	\
													Magnesium	3930	\	\	\	\	\	\
													Manganese*	318	\	\	\	\	\	\
													Mercury*	0.02	\	\	\	\	\	\
													Molybdenum*	0.22 J	\	\	\	\	\	\
													Nickel*	11.2	\	\	\	\	\	\
													Potassium	1320	\	\	\	\	\	\
													Selenium	0.38*U	\	\	\	\	\	\
													Silicon	329 J	\	\	\	\	\	\
													Silver	0.09 U	\	\	\	\	\	\
													Sodium	160	\	\	\	\	\	\
													Vanadium*	45.5	\	\	\	\	\	\
													Zinc*	46.1	\	\	\	\	\	\
													Aroclor-1260*	0.055 J	\	\	\	\	\	\
													* These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. Aroclor-1260 was the only PCB detected.							

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Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-14	Storage Tank	100-FR-2	Pipe: 10 cm (4 in.) diameter Cement pad: 6 m x 9 m (20 ft x 30 ft)	Not Documented	The site was the location of a vent pipe originating from the 100-F Carpenter Shop. It is unlikely that the original facility's primary use was as a carpenter shop. The slope of the floor from the outer edges of the building, central drain, ramps on the north and south sides of the building, and geophysical survey (conducted prior to confirmatory sampling) indicate that this building may have been a decontamination facility from which rinsate drained to a crib. The concrete pad and vent pipe remain, and are visible. A focused sampling approach was selected for the site. Results of the confirmatory sampling were used to make reclassification decisions for the site in accordance with the TPA‑MP-14 process.	No Action	WSRF 2004-127	N/A	N/A	13-Oct-04 (confirmatory sampling)	None	2.2	Americium-241	0.055 U	\	\	\		\	\
													Cesium-137	0.017*	\	\	\	\	\	\
													Cobalt-60	0.017 U	\	\	\	\	\	\
													Europium-152	0.038 U	\	\	\	\	\	\
													Europium-154	0.059 U	\	\	\	\	\	\
													Europium-155	0.04 U	\	\	\	\	\	\
													Gross alpha	8.9	\	\	\	\	\	\
													Gross beta	16.1	\	\	\	\	\	\
													Potassium-40	12.6	\	\	\	\	\	\
													Radium-226	0.489	\	\	\	\	\	\
													Radium-228	0.684	\	\	\	\	\	\
													Thorium-228	0.646	\	\	\	\	\	\
													Thorium-232	0.684	\	\	\	\	\	\
													Uranium-235	0.057 U	\	\	\	\	\	\
													Uranium-238	2.3 U	\	\	\	\	\	\
													Aluminum	5490 C	\	\	\	\	\	\
													Antimony	0.286 UJ	\	\	\	\	\	\
													Arsenic*	1.9	\	\	\	\	\	\
													Boron*	1	\	\	\	\	\	\
													Barium*	67.5 C	\	\	\	\	\	\
													Beryllium*	0.463 C	\	\	\	\	\	\
													Cadmium	0.029 U	\	\	\	\	\	\
													Calcium	3870 C	\	\	\	\	\	\
													Chromium (total)*	9.1 C	\	\	\	\	\	\
													Cobalt*	7.5	\	\	\	\	\	\
													Copper*	14.4	\	\	\	\	\	\
													Iron	22400	\	\	\	\	\	\
													Lead*	3.6	\	\	\	\	\	\
													Magnesium	4240	\	\	\	\	\	\
													Manganese*	311 C	\	\	\	\	\	\
													Mercury*	0.084	\	\	\	\	\	\
													Molybdenum*	0.458	\	\	\	\	\	\
													Nickel*	10.4	\	\	\	\	\	\
													Potassium	1290 C	\	\	\	\	\	\
													Selenium	0.372 U	\	\	\	\	\	\
													Silicon	391 J	\	\	\	\	\	\
													Silver	0.086 U	\	\	\	\	\	\
													Sodium	149 C	\	\	\	\	\	\
													Vanadium*	59.7	\	\	\	\	\	\
													Zinc*	43.4 C	\	\	\	\	\	\
													TPH	38 U	\	\	\	\	\	\
													Methylene chloride*	0.019 B	\	\	\	\	\	\
													Bis(2-ethylhexyl)-phthalate*	0.025 J	\	\	\	\	\	\
													Diethylphthalate	0.037 J	\	\	\	\	\	\
													Alpha-BHC*	0.0014 J	\	\	\	\	\	\
													*The above analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list only includes VOAs, SVOAs, and pesticides that were detected.							
100-F-15	French Drain	100-FR-2	0.91 m (3 ft) diameter	1944-1973	The site was a French drain constructed of concrete and buried to a depth that placed the upper drain surface at grade level. A highly degraded wooden cover was in place over the drain. The bottom of the drain consisted of soil and large gravel, which supported a 5-gallon carboy container. The drain received small quantities of water as condensate that formed from steam lines or from the hood ventilation ducts mounted externally on the east wall of the 108-F Building.	Interim Closed Out	CVP-2002-00001	8-Aug-99	5-Dec-01	7-Feb-02	N/A	4.6	Plutonium-238	0.027 U	\	0.0237	\	\	0 U	-0.00989
													Plutonium-239/240	0.04 U	\	0.0334	\	\	0.028 U	0.011
													Chromium (total)	16	\	15.9	\	\	14	15.7
													Chromium (hexavalent)	0.45	\	0.45	\	\	1.3	1.3
100-F-16	French Drain	100-FR-1	76 cm (30 in.) diameter	Not Documented	The site was a French drain constructed of steel pipe, filled with gravel, and covered with a steel lid. The drain extended 18 cm (7 in.) above grade. The drain was adjacent to the south wall of the 108-F Building east loading dock. The dates of operation, and type and quantity of waste are unknown. The site was excavated and waste was disposed at the ERDF as part of the D&D of the 108-F Laboratory Building in 1999. The site was not sampled to verify cleanup at that time. Site excavation was reported in BHI-01399. Verification samples were collected with the remediation of 100-F-15 in 2002. The 100-F-4, 100-F-11, and 100-F-16 French drains were considered analogous to the 100-F-15 French drain, and were verified as clean by excavating and sampling test pits at each location.	Interim Closed Out	CVP-2002-00001	8-Aug-99	5-Dec-01	7-Feb-02	N/A	4.6	Plutonium-238	0.007U (Test Pit)	\	See 100-F-15	\	\	See 100-F-15	\
													Plutonium-239/240	0.032 (Test Pit)	\	See 100-F-15	\	\	See 100-F-15	\
													Chromium (total)	14 (Test Pit)	\	See 100-F-15	\	\	See 100-F-15	\
													Chromium (hexavalent)	0.51 (Test Pit)	\	See 100-F-15	\	\	See 100-F-15	\

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-17	Storage Tank	100-FR-1	45.87 m x 9.75 m x 17.68 m (150 ft x 32 ft x 58 ft)	1943-1983	The site was a four-story steel-framed building. The 108-F Building was originally built to be used as a chemical pump house to hold and pump various chemicals needed in reactor water treatment and reactor purging (internal cleansing). It contained many holding and mixing tanks and pumps, along with storage bins for dry materials, conveyor systems, hoppers, and power shovels. Shortly after the F Reactor began operation, it was determined that such treatment would not be required and cooling water treatment could be performed elsewhere in the system. The 108-F Building was then converted to be used as a biological laboratory where the effects of radiation and contamination on plant and animal life were studied. The chemical storage tanks that were originally located on the west side of the building have been removed.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-18	Drain/Tile Field	100-FR-1	Pipe: 20-cm (8-in.) diameter, 91-cm (36-in.) Steel Tank: 91-cm (36-in.) diameter	Not Documented	The site was a condensate drainfield and underground tank or condensate drainpipe, which was not visible at the surface, but was identifiable by a long steel pipe welded to what appeared to be the top of a steel tank. The upper surface of the "tank" was abovegrade. No remnants of the drainfield or tank were found.	No Action	WSRF 2004-137	N/A	N/A	10/22/2004 (confirmatory sampling)	N/A	3.4 (bottom of test pit)	Americium-241	0.28 U	\	\	\	\	\	\
													Carbon-14	3.2 U	\	\	\	\	\	\
													Cesium-137	0.036 U	\	\	\	\	\	\
													Cobalt-60	0.042 U	\	\	\	\	\	\
													Europium-152	0.086 U	\	\	\	\	\	\
													Europium-154	0.14 U	\	\	\	\	\	\
													Europium-155	0.13 U	\	\	\	\	\	\
													Gross alpha	8.62	\	\	\	\	\	\
													Gross beta	22.8	\	\	\	\	\	\
													Potassium-40	16.2	\	\	\	\	\	\
													Radium-226	0.479	\	\	\	\	\	\
													Radium-228	0.734	\	\	\	\	\	\
													Thorium-228	0.58	\	\	\	\	\	\
													Thorium-232	0.734	\	\	\	\	\	\
													Tritium	0.43 U	\	\	\	\	\	\
													Uranium-235	0.16 U	\	\	\	\	\	\
													Uranium-238	4.8 U	\	\	\	\	\	\
													Aluminum	4430 C	\	\	\	\	\	\
													Antimony	0.33 UJ	\	\	\	\	\	\
													Arsenic*	1.7	\	\	\	\	\	\
													Barium*	38 C	\	\	\	\	\	\
													Beryllium*	0.269 C	\	\	\	\	\	\
													Boron*	0.62	\	\	\	\	\	\
													Cadmium	0.033 U	\	\	\	\	\	\
													Calcium	5290 C	\	\	\	\	\	\
													Chromium (total)*	8.5 J	\	\	\	\	\	\
													Chromium (hexavalent)	0.22 U	\	\	\	\	\	\
													Cobalt*	4.7	\	\	\	\	\	\
													Copper*	26.7	\	\	\	\	\	\
													Iron	13300	\	\	\	\	\	\
													Lead*	2.9	\	\	\	\	\	\
													Magnesium	3550	\	\	\	\	\	\
													Manganese*	217 C	\	\	\	\	\	\
													Mercury*	0.09 J	\	\	\	\	\	\
													Molybdenum*	0.25	\	\	\	\	\	\
													Nickel*	9.5	\	\	\	\	\	\
													Potassium	629 C	\	\	\	\	\	\
													Selenium	0.43 U	\	\	\	\	\	\
													Silicon	390 C	\	\	\	\	\	\
													Silver	0.1 U	\	\	\	\	\	\
													Sodium	117 C	\	\	\	\	\	\
													Vanadium*	31.6	\	\	\	\	\	\
													Zinc*	34.5 C	\	\	\	\	\	\
													PCBs	0.015 U	\	\	\	\	\	\
													TPH	37.4 U	\	\	\	\	\	\
													VOAs	U	\	\	\	\	\	\
													Bis(2-ethylhexyl) phthalate*	0.020 J	\	\	\	\	\	\
													Di-n-butylphthalate*	0.020 J	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list includes only the SVOAs that were detected.							
100-F-19:1 (subsite)	Pipelines	100-FR-1	6 cm to 1.8 m (2.5 in. to 6 ft) diameter; 250 m (820 ft) length	1945-1965	The 100-F-19 waste site contained the 100-F Reactor cooling water effluent lines, which have been divided into a small pipeline or trench (116-F-2) and three subsites (100-F-19:1, 100-F-19:2, 100F-19:3). Subsite 19:1 site included piping that ran north-northwest from the north side of the 116‑F‑14 Retention Basin to the 116‑F‑8 Outfall Structure and also includes a second underground effluent pipeline that extended northwest from the 116-F-14 Retention Basin to a junction box and to the 116-F-6 Outfall Structure.	Interim Closed Out	CVP-2001-00002	7-Aug-01	25-Sep-01	07-Sep-01 through 25-Sep-01	56,335	5	Carbon-14	5.7	4.5 U	2.9	1.7	\	5.5 J	1.2
													Cesium-137	0.206	21	0.049	14	\	0.055	0.026
													Cobalt-60	0.055 U	14	0.018	6.5	\	0.066 U	0.023
													Europium-152	0.15 U	330	0.044	150	\	0.14 U	0.048
													Europium-154	0.19 U	27	0.064	13	\	0.22 U	0.076
													Europium-155	0.13 U	0.79 U	0.047	0.23	\	0.14 U	0.049
													Nickel-63	2.6 U	350	-0.024	170	\	6.0 U	0.28
													Strontium-90	0.334	4.9	0.043	2.7	\	0.22	0.037
													Chromium (hexavalent)	0.66	5.6	0.66	5.6	\	0.74	0.74
100-F-19:2 (subsite)	Pipelines	100-FR-1	105 cm (3.5 ft) diameter 635 m (2,080 ft) length 152 cm (5 ft) diameter 283 m (928 ft) length 105 cm (3.5 ft) diameter 283 m (928 ft) length	1945-1965	The 100-F-19:2 pipelines are a subsite of the collective 100-F-19 Effluent Pipeline System. The waste site is composed of three pipelines exiting the reactor facility toward the east to the 107‑F Retention Basin (116-F-14 waste site). The pipeline carried cooling waste by gravity flow from the reactor core to the 107‑F Retention Basin.	Interim Closed Out	CVP-2001-00003	1-Aug-01	31-Dec-01	03-Jan-03 through 21-Jan-03	39,347	5	Americium-241	0.36 U	0.049	0.089	0.0476	\	0.0662	0.0413
													Barium-133	0.053 U	0.089 U	\	\	\	0.047 U	\
													Carbon-14	3.3 U	3.4 U	0.147	0.526	\	0.828	-0.449
													Cesium-137	0.351	5.21	0.121	3.48	\	0.395	0.149
													Cobalt-60	0.058 U	1.16	0.0185	0.581	\	0.062 U	0.029
													Europium-152	0.711	17.1	0.164	8.64	\	0.809	0.324
													Europium-154	0.20 U	1.66	0.0623	0.871	\	0.27 U	0.0802
													Europium-155	0.14 U	0.35 U	0.0535	0.121	\	0.13 U	0.0511
													Nickel-63	14.6 B	340	6.47	152	\	16.2 B	4.19
													Plutonium-238	0.27 U	0.23 U	0.175	0.00301	\	0.27 U	0.0086
													Plutonium-239/240	0.27 U	0.23 U	\	\	\	0.29 U	\
													Strontium-90	0.33 U	1.53	0.0288	0.873	\	0.34 U	0.109
													Uranium-233/234	0.588	0.601	\	\	\	0.518	\
													Uranium-238	0.767	0.592	\	\	\	0.59	\
													Tritium	0.23 U	0.23 U	-0.0646	-0.0234	\	0.808	0.408
													Barium	160	66	101	65	\	55	50

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Chromium (hexavalent)	0.48 U	1.1	0.48	1.1	\	0.45 U	0.46
													Lead	4.8	4.1	4.7	4.1	\	8	6.4
													Mercury	0.051	0.011 B	0.016	0.017	\	0.41	0.41
100-F-19:3 (subsite)	Pipelines	100-FR-1	1.2 m (4 ft) diameter 0.9 m (3 ft) diameter	1945-1965	The 100-F-19:3 pipelines are a subsite of the collective 100-F-19 Effluent Pipeline system. The site includes sections of effluent pipelines located north of the reactor running west from the 182-F Reservoir and the 126‑F‑12 (183-F) Clearwell to the 116‑F‑1 Lewis Canal. This subsite also includes piping running in a north-south direction between the 182-F Reservoir and the 126-F-12 Clearwell.	Interim Closed Out	CVP-2001-00002	See 100-F-19:1. This site was remediated along with 100-F-19:1 and the sample results are the same.												
100-F-20	Trench	100-FR-2	22.9 m x 6.1 m x 2.4 m (75 ft x 20 ft x 8 ft)	1962	The site was two earthen pits or trenches. The trenches are believed to have been used to dispose of both radioactive and nonradioactive material from the Experimental Animal Farm.	Interim Closed Out	CVP-2006-00009	5-Dec-05	8-Aug-06	16-Aug-06 and 31-Aug-06	11,953	4.3	Cobalt-60	0.053 U	\	0.053 (ND)	\	\	0.14 U	0.14 (ND)
													Cesium-137	0.051 U	\	0.024 (ND)	\	\	0.044	0.052
													Nickel-63	3.6 U	\	-0.192 (ND)	\	\	4.68	1.91
													Plutonium-239/240	0.089 U	\	0.025 (ND)	\	\	0.38 U	0.057 (ND)
													Strontium-90	0.27 U	\	0.075(ND)	\	\	0.265	0.141
													Lead	31.2	\	24.1	\	\	18.5	18
100-F-21	Unplanned Release	100-FR-1	Not Documented	Not Documented	The site consists of grounds within the 100-F Area exclusion area that are not part of other waste sites.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-F-23	French Drain	100-FR-1	Not Documented	1945-1976	The site was a French drain that may have received liquid waste from the 141‑C Isotope Study Facility/Animal Barn, which housed plant and animal research on the effects of ionizing radiation. The site may have received liquid wastes from animal pens and 141-C Building Research Laboratories. It is also likely that the French drain received stormwater runoff from the loading dock.	Interim Closed Out	CVP-2003-00011	12-Apr-03	12-Apr-03	16-Apr-03	458	3.2	Carbon-14	4.2 U	\	1.5	\	\	\	\
													Cesium-137	0.099 U	\	0.0344	\	\	\	\
													Cobalt-60	0.036 U	\	0.0156	\	\	\	\
													Europium-152	0.082 U	\	0.0363	\	\	\	\
													Strontium-90	0.32 U	\	0.0136	\	\	\	\
													Chromium (hexavalent)	0.46 U	\	0.46	\	\	\	\
100-F-24	French Drain	100-FR-1	Not Documented	1960-1977	The site was a French drain associated with the 145-F Animal Monitoring Laboratory, which housed animal research on the effect of ionization radiation. The French drain is believed to have received liquid wastes from 145-F Building Research Laboratories.	Interim Closed Out	CVP-2003-00012	12-Apr-03	12-Apr-03	16-Apr-03	259	2.7	Carbon-14	3.6 U	\	0.611	\	\	\	\
													Cesium-137	0.053	\	0.0288	\	\	\	\
													Cobalt-60	0.039 U	\	0.0172	\	\	\	\
													Europium-152	0.089 U	\	0.0385	\	\	\	\
													Strontium-90	0.32 U	\	0.0807	\	\	\	\
													Chromium (hexavalent)	0.44 U	\	0.44	\	\	\	\
100-F-25	French Drain	100-FR-1	1.52 m (5 ft) diameter	1956-1975	The site excavation included the 100-F-25 French drain, 146-FR Drywells, and the UPR‑100‑F-3 mercury spills. The waste site is associated with research on the effects of ionizing radiation on fish. The French drain is believed to have received liquid wastes from 146-F and 146-FR Research Laboratories and ponds.	Interim Closed Out	CVP-2003-00010	12-Apr-03	12-Apr-03	16-Apr-03	809	4	Carbon-14	3.6 U	\	-0.548	\	\	\	\
													Cesium-137	0.068	\	0.0486	\	\	\	\
													Cobalt-60	0.042 U	\	0.02	\	\	\	\
													Europium-152	0.134	\	0.103	\	\	\	\
													Europium-154	0.14 U	\	0.0652	\	\	\	\
													Nickel-63	4.6	\	4.35	\	\	\	\
													Strontium-90	0.49 U	\	0.0536	\	\	\	\
													Mercury	0.14	\	0.092	\	\	\	\
													Chromium (hexavalent)	0.43 U	\	0.43	\	\	\	\
100-F-26:1 (subsite)	Process Sewer	100-FR-1	Not Documented	1945-1965	The 100-F-26:1 subsite pipelines were stratified into five service areas based on the contributing discharges to pipeline segments from each of the two facilities. The inverts of the pipelines were identified at depths of 4 to 4.9 m (13 to 16 ft) below ground surface (bgs) at the locations excavated, with the exception of the sewer line southwest of the 182-F Reservoir, for which a junction box was located at 1.5 m (5 ft) bgs.	No Action	WSRF-2005-008	N/A	N/A	01-Dec-04 through 10-Jan-05 (confirmatory sampling)	N/A	4.9 m (16 ft)	Americium-241	0.26 U	\	\	\	\	\	\
													Cesium-137*	0.895	\	\	\	\	\	\
													Cobalt-60	0.104	\	\	\	\	\	\
													Europium-152	0.654	\	\	\	\	\	\
													Europium-154	0.34 U	\	\	\	\	\	\
													Europium-155	0.22 U	\	\	\	\	\	\
													Gross alpha	27.9	\	\	\	\	\	\
													Gross beta	24.7	\	\	\	\	\	\
													Plutonium-238	0.15 U	\	\	\	\	\	\
													Plutonium-239/240	0.15 U	\	\	\	\	\	\
													Potassium-40*	14.2	\	\	\	\	\	\
													Radium-226*	0.968	\	\	\	\	\	\
													Radium-228*	2.12	\	\	\	\	\	\
													Strontium-90	0.31 U	\	\	\	\	\	\
													Thorium-228*	1.86	\	\	\	\	\	\
													Thorium-232*	2.12	\	\	\	\	\	\
													Uranium-235	0.34 U	\	\	\	\	\	\
													Uranium-238	8.8 U	\	\	\	\	\	\
													Aluminum	15700	\	\	\	\	\	\
													Antimony	1.2	\	\	\	\	\	\
													Arsenic *	13.6	\	\	\	\	\	\
													Barium*	287	\	\	\	\	\	\
													Beryllium *	0.6	\	\	\	\	\	\
													Boron *	10.3	\	\	\	\	\	\
													Cadmium*	2	\	\	\	\	\	\
													Calcium	206000	\	\	\	\	\	\
													Chromium*	25.3	\	\	\	\	\	\
													Cobalt*	7.3	\	\	\	\	\	\
													Copper *	46.3 C	\	\	\	\	\	\
													Hexavalent Chromium*	0.28	\	\	\	\	\	\
													Iron	35000	\	\	\	\	\	\
													Lead*	6260	\	\	\	\	\	\
													Magnesium	6500	\	\	\	\	\	\
													Manganese *	532	\	\	\	\	\	\
													Mercury*	25.5	\	\	\	\	\	\
													Molybdenum	3	\	\	\	\	\	\

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Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Nickel*	19	\	\	\	\	\	\
													Potassium	5850	\	\	\	\	\	\
													Selenium	2.1 U	\	\	\	\	\	\
													Silicon	4200	\	\	\	\	\	\
													Silver*	15.6	\	\	\	\	\	\
													Sodium	3960 C	\	\	\	\	\	\
													Vanadium*	51	\	\	\	\	\	\
													Zinc*	334	\	\	\	\	\	\
													Aroclor-1254*	3.9	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list includes only the PCBs that were detected.							
100-F-26:2 (subsite)	Process Sewer	100-FR-1	5.1 cm (2 in.) diameter	1952-1970	This subsite was a 5.1 cm (2 in.) diameter carbon steel pipeline that exited the east side of the 190-F Pumphouse, then split and conveyed flow to both the Aquatic Biology Fish Ponds and the Strontium Gardens.	No Action	WSRF-2005-005	N/A	N/A	17-Nov-04 and 18-Nov-04 (confirmatory sampling)	N/A	1.2 m	Americium-241	0.15 U	\	\	\	\	\	\
													Cesium-137	0.046 U	\	\	\	\	\	\
													Cobalt-60	0.046 U	\	\	\	\	\	\
													Europium-152	0.092 U	\	\	\	\	\	\
													Europium-154	0.16 U	\	\	\	\	\	\
													Europium-155	0.11 U	\	\	\	\	\	\
													Gross alpha	11.1	\	\	\	\	\	\
													Gross beta	19.2	\	\	\	\	\	\
													Potassium-40	13.8	\	\	\	\	\	\
													Radium-226	0.482	\	\	\	\	\	\
													Radium-228	0.782	\	\	\	\	\	\
													Thorium-228	0.812	\	\	\	\	\	\
													Thorium-232	0.782	\	\	\	\	\	\
													Uranium-235	0.15 U	\	\	\	\	\	\
													Uranium-238	6.1 U	\	\	\	\	\	\
													Aluminum	4960	\	\	\	\	\	\
													Antimony	0.27 U	\	\	\	\	\	\
													Arsenic*	2.1	\	\	\	\	\	\
													Barium*	74.3	\	\	\	\	\	\
													Beryllium*	0.19	\	\	\	\	\	\
													Boron*	1.7	\	\	\	\	\	\
													Cadmium*	0.07	\	\	\	\	\	\
													Calcium	3490	\	\	\	\	\	\
													Chromium*	7.7 J	\	\	\	\	\	\
													Cobalt*	6.6	\	\	\	\	\	\
													Copper*	11.1 J	\	\	\	\	\	\
													Hexavalent Chromium*	0.39	\	\	\	\	\	\
													Iron	18300	\	\	\	\	\	\
													Lead*	5.4	\	\	\	\	\	\
													Magnesium	3460 C	\	\	\	\	\	\
													Manganese*	303	\	\	\	\	\	\
													Mercury	0.01 U	\	\	\	\	\	\
													Molybdenum*	0.42	\	\	\	\	\	\
													Nickel*	8.7	\	\	\	\	\	\
													Potassium	1070 C	\	\	\	\	\	\
													Selenium	0.35 U	\	\	\	\	\	\
													Silicon	864 J	\	\	\	\	\	\
													Silver	0.1 U	\	\	\	\	\	\
													Sodium	108 C	\	\	\	\	\	\
													Vanadium*	46.9	\	\	\	\	\	\
													Zinc*	38.3	\	\	\	\	\	\
													Aroclor-1254*	0.011	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list includes only the PCBs that were detected.							
100-F-26:3 (subsite)	Process Sewer	100-FR-1	Not Documented	1945-1965	The 100-F-26:3 pipeline subsite was a network of process sewer pipelines that serviced the 184-F Power House and the 188-F Ash Disposal Basin. The 184-F Power House was primarily a boiler house, containing four boilers and one small turbine generator for emergency power generation.	No Action	WSRF-2004-010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-F-26:4 (subsite)	Process Sewer	100-FR-1	Not Documented	1945-1965	The 100-F-26:4 subsite was a network of process sewer pipelines that received flow from the 105-F Reactor, the 190-F Pumphouse, the 1717-F Combined Shops Buildings, and the 108-F Biology Laboratory in the 100-F Areas.	Interim Closed Out	WSRF 2007-035	Service Area 2 12-Feb-07 Service Area 6 13-Oct-10	Service Area 2 11-Oct-07 Service Area 6 05-Jan-11	Service Area 2 Sep-07 thru Oct-07 Service Area 6 16-May-11	756.5	2.5		Service Area 2							
													Americium-241	0.316 U	\	\	\	\	0.281 U	\
													Barium-133	0.039 U	\	\	\	\	0.099 U	\
													Cesium-137	0.291	\	0.124	\	\	0.071	\
													Cobalt-60	0.036 U	\	\	\	\	0.093 U	\
													Europium-152	0.087 U	\	\	\	\	0.09	\
													Europium-154	0.130 U	\	\	\	\	0.298 U	\
													Europium-155	0.120 U	\	\	\	\	0.165 U	\
													Potassium-40	15	\	\	\	\	14.8	\
													Radium-226	0.518	\	\	\	\	0.599	\
													Radium-228	0.733	\	\	\	\	0.887	\
													Silver-108	0.027 U	\	\	\	\	0.065 U	\
													Thorium-228	0.845	\	\	\	\	0.846	\
													Thorium-232	0.733	\	\	\	\	0.887	\
													Uranium-235	0.160 U	\	\	\	\	0.339 U	\
													Uranium-238	4.24 U	\	\	\	\	44.6 U	\
													Gross Alpha	25.5	\	\	\	\	26.9	\
													Gross Beta	21.5	\	\	\	\	20.3	\

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Aluminum	5880	\	\	\	\	7590 C	\
													Antimony	0.79	\	\	\	\	0.87 U	\
													Arsenic	2.8	\	2.2	\	\	4.1	\
													Barium	151 C	\	65.5	\	\	260 C	\
													Beryllium	0.28	\	0.21	\	\	0.42	\
													Boron	15.2	\	3.8	\	\	32.3	\
													Cadmium	0.15 U	\	\	\	\	0.2	\
													Calcium	7370 C	\	\	\	\	8120 C	\
													Chromium	10.4 C	\	8.7	\	\	10.4	\
													Hexavalent Chromium*	1.3	\	0.46	\	\	0.24	\
													Cobalt	5.3	\	4.9	\	\	6	\
													Copper	12.5	\	11.5	\	\	17.3 C	\
													Iron	13200 C	\	\	\	\	16800	\
													Lead	9.8	\	5.9	\	\	20	\
													Magnesium	3320 C	\	\	\	\	3930	\
													Manganese*	260	\	231	\	\	297 C	\
													Mercury	0.06	\	\	\	\	0.15	\
													Molybdenum	0.89	\	\	\	\	0.85	\
													Nickel	11.3	\	9.7	\	\	9.9	\
													Potassium	716 C	\	\	\	\	1090	\
													Selenium	2.7	\	\	\	\	1.7 U	\
													Silicon	2600 C	\	\	\	\	3550 C	\
													Silver	0.27 U	\	\	\	\	0.29 U	\
													Sodium	289 C	\	\	\	\	408 C	\
													Vanadium*	31	\	27.6	\	\	41.5	\
													Zinc*	42.8 C	\	35.2	\	\	65.8 C	\
													Aroclor-1254*	0.014 U	\	\	\	\	0.016	\
													Aroclor-1260*	0.014 U	\	\	\	\	0.0081 J	\
													TPH	134 U	\	\	\	\	141	\
													Service Area 6							
													Americium-241	0.342 U	\	\	\	\	0.291 U	\
													Cesium-137	0.0573 U	\	\	\	\	0.0430 U	\
													Cobalt-60	0.0459 U	\	\	\	\	0.0462 U	\
													Europium-152	0.120 U	\	\	\	\	0.111 U	\
													Europium-154	0.155 U	\	\	\	\	0.144 U	\
													Europium-155	0.119 U	\	\	\	\	0.107 U	\
													Aluminum	8370	\	\	\	\	8530	\
													Antimony	0.41 U	\	\	\	\	0.38 UJ	\
													Arsenic*	5.5	\	2.7	\	\	6.5	\
													Barium*	129	\	91.8	\	\	109	\
													Beryllium*	0.24	\	0.21	\	\	0.23	\
													Boron*	9.1 M	\	5	\	\	5.1	\
													Cadmium*	0.096 B	\	0.088	\	\	0.099 B	\
													Calcium	6600 X	\	\	\	\	6670 X	\
													Chromium*	12.5 X	\	11.1	\	\	11.0 X	\
													Hexavalent Chromium	0.155 UJ	\	\	\	\	0.155 UJ	\
													Cobalt*	6.6 X	\	6	\	\	6.5 X	\
													Copper*	16.9	\	13.9	\	\	15	\
													Iron	18200	\	\	\	\	18800	\
													Lead*	16.9	\	9.3	\	\	16	\
													Magnesium	4520	\	\	\	\	4630	\
													Manganese*	286 X	\	275	\	\	299 X	\
													Mercury*	0.016 B	\	0.01	\	\	0.0083 B	\
													Molybdenum*	0.46 BM	\	0.26	\	\	0.30 B	\
													Nickel*	15	\	11.1	\	\	11.2 X	\
													Potassium	1280	\	\	\	\	1180	\
													Selenium	0.93 B	\	\	\	\	0.85 U	\
													Silicon	449 JX	\	\	\	\	307 JX	\
													Silver	0.17 U	\	\	\	\	0.16 U	\
													Sodium	291	\	\	\	\	258	\
													Vanadium*	47.1	\	43.8	\	\	47.2	\
													Zinc*	40.6 X	\	37.8	\	\	41.9 X	\
													Aroclor-1260*	0.0048 J	\	\	\	\	0.0027 UJ	\
													TPH - Diesel Range*	12	\	6.67	\	\	2.7 J	\
													TPH - Diesel Range EXT*	46	\	27.1	\	\	10	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list includes only the PCBs that were detected.							

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-26:5 (subsite)	Process Sewer	100-FR-1	1.2 m (48 in.) and 0.46 m (18 in.) diameter pipelines	1945-1965	The 100-F-26:5 subsite included the underground pipelines that serviced the 185-F Building and the 190-F Pumphouse Building, which were composed of reinforced concrete pipe and vitrified clay pipe. The historical design flow direction consisted of discharges from the 185-F and 190-F Facilities traveling generally south before the pipeline turned west to discharge to one of the 100-F-19:3 [facilities or subsites?] (100-F Reactor Cooling Water Effluent Underground Pipelines [West Group]).	No Action	WSRF-2005-007	N/A	N/A	29-Nov-04 04-Jan-05 13-Jan-05 (Confirmatory sampling)	N/A	7.9	Americium-241	0.23 U	\	\	\	\	\	\
													Cesium-137*	0.11 U	\	\	\	\	\	\
													Cobalt-60	0.12 U	\	\	\	\	\	\
													Europium-152	0.21 U	\	\	\	\	\	\
													Europium-154	0.31 U	\	\	\	\	\	\
													Europium-155	0.24 U	\	\	\	\	\	\
													Gross alpha	12.5	\	\	\	\	\	\
													Gross beta	22.8	\	\	\	\	\	\
													Potassium-40	16.5	\	\	\	\	\	\
													Radium-226	0.533	\	\	\	\	\	\
													Radium-228	0.874	\	\	\	\	\	\
													Thorium-228	0.607	\	\	\	\	\	\
													Thorium-232	0.874	\	\	\	\	\	\
													Uranium-235	0.32 U	\	\	\	\	\	\
													Uranium-238	13 U	\	\	\	\	\	\
													Aluminum	4720	\	\	\	\	\	\
													Antimony	0.662	\	\	\	\	\	\
													Arsenic*	2.3	\	\	\	\	\	\
													Barium*	50.4 C	\	\	\	\	\	\
													Beryllium	0.396	\	\	\	\	\	\
													Boron*	1	\	\	\	\	\	\
													Cadmium*	0.292	\	\	\	\	\	\
													Calcium	5850	\	\	\	\	\	\
													Chromium*	10.4 C	\	\	\	\	\	\
													Cobalt *	4.8	\	\	\	\	\	\
													Copper*	12.5	\	\	\	\	\	\
													Hexavalent Chromium*	0.875	\	\	\	\	\	\
													Iron	13900	\	\	\	\	\	\
													Lead*	3.6	\	\	\	\	\	\
													Magnesium	3490 C	\	\	\	\	\	\
													Manganese*	231	\	\	\	\	\	\
													Mercury*	0.098	\	\	\	\	\	\
													Molybdenum*	0.436	\	\	\	\	\	\
													Nickel*	10.5	\	\	\	\	\	\
													Potassium	697 C	\	\	\	\	\	\
													Selenium	0.39 U	\	\	\	\	\	\
													Silicon	343	\	\	\	\	\	\
													Silver	0.11 U	\	\	\	\	\	\
													Sodium	165 C	\	\	\	\	\	\
													Vanadium*	33.5	\	\	\	\	\	\
													Zinc*	64.2 C	\	\	\	\	\	\
													PCBs	0.014 U	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. Results listed are only for the soils and do not represent the pipe contents.							
100-F-26:6 (subsite)	Process Sewer	100-FR-1	Not Documented	1945-1965	The 100-F-26:6 subsite received flow via a cast iron pipeline with lead joints, from the reuse water reservoir portion of the 190-F Pumphouse. The lead contained in the pipeline did not present a direct exposure risk to human health because no exposure pathway to groundwater existed. There was no history of radiological contamination associated with the 190-F Reservoir Pipelines and no radiological contamination was detected during decommissioning of the 190-F complex. The 100-B-14:7 pipeline subsite was determined to meet the cleanup criteria; consequently, the 100-F-26:6 subsite also has met the cleanup criteria and the remaining contaminant levels were protective of human health, groundwater, and the Columbia River. The site has been reclassified to No Action.	No Action	WSRF 2004-119	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-F-26:7 (subsite)	Process Sewer	100-FR-1	7.6 cm (3 in.) diameter pipelines	1945-1965	The 100-F-26:7 subsite was a pair of 7.6 cm (3 in.) steel pipelines that conveyed sodium dichromate and sodium silicate, respectively, from the 108-F Chemical Pumping Building to the 190-F Water Treatment Building. Based on historical information, the sodium silicate pipeline conveyed only chemicals with low inherent toxicity or that readily degrade to compounds of low inherent toxicity, and therefore are not considered hazardous/dangerous or to present a risk to human health or the environment.	Interim Closed Out	WSRF 2011-088	12-Jan-11	13-Apr-11	21-Jul-11	2.220.7	2.7		Excavation	Overburden	Excavation	N/A	\	Stockpile	Stockpile
													Aluminum	8000	8660 X	\	\	10300	6830	\
													Antimony	0.91	0.68 J	0.69	\	0.46 U	0.79	0.73
													Arsenic	2.2	2.1	1.9	\	3.3	2.2	1.7
													Barium	177	153	101	\	76.2	160	107
													Beryllium	0.065 B	0.12 B	\	\	0.064 BM	0.034 U	\
													Boron	16.8	10.6	7.4	\	1.7 B	8.7	5.6
													Cadmium	0.14 B	0.13 B	0.11	\	0.13 B	0.11 B	0.98
													Calcium	6410	8030 X	\	\	5550	4920 X	\
													Chromium	13.2	17.7 X	11.3	\	11	13.4 X	9.6
													Hexavalent Chromium*	0.509	0.155 UJ	\	\	0.155 U	0.155 UJ	\
													Cobalt	6.2 X	6.4 X	5.9	\	7.3 X	6.4 X	6.1
													Copper	15.6	15.4 X	14.1	\	15.4	12.8 X	12.2
													Iron	19300	18100 X	\	\	18400	19400	\
													Lead	9.9	8.9	6.5	\	6.7	4.3	3.8
													Magnesium	4480 X	4480 X	\	\	4180 X	3970 X	\
													Manganese*	293	319 X	280	\	321	294	276
													Mercury*	0.040 M	0.066	0.023	\	0.0096 B	0.0067 B	\

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Molybdenum*	0.41 B	0.25 U	\	\	0.31 U	0.43 B	\
													Nickel	11.4 X	11.5 X	10.5	\	11.7 X	10.8 X	9.8
													Potassium	1270	1310	\	\	1710	1140	\
													Selenium	1.0 U	0.84 U	\	\	1.0 U	0.96	\
													Silicon	407 XJ	405 XJ	\	\	107	371 NXJ	\
													Silver	0.19 U	0.16 U	\	\	0.21 B	0.16 U	\
													Sodium	330	307	\	\	226	284	\
													Vanadium	53.8 X	47.6 X	47.6	\	39.7	54.7 X	52
													Zinc*	50.3 X	44.4 X	42.9	\	39.5 X	38.5 X	37.2
100-F-26:8 (subsite)	Process Sewer	100-FR-1	200 m (660 ft) long x 0.2 m (8 in.) diameter	1945-1965	The 100-F-26:8 subsite consisted of the underground pipelines that conveyed sanitary waste water from the 1701-F Gatehouse, 1709-F Fire Station, and 1720-F Administrative Office to the 1607-F1 septic tank.	Interim Closed Out	WSRF-2005-004	See 1607-F1. This site was remediated along with 1607-F1 and the sample results are the same.												
100-F-26:9 (subsite)	Process Sewer	100-FR-1	Not Documented	1945-1965	The 100-F-26:9 subsite consisted of underground pipelines of the 1607-F2 sanitary sewers servicing the 105-F, 108-F, 184-F, 185-F, and 190-F buildings, and the 1700-F administration and service buildings. The results of sampling show that residual contaminant concentrations do not preclude any future uses (as bounded by the rural-residential scenario) and allow for unrestricted use of shallow zone soils (i.e., surface to 4.6 m [15 ft] deep). The results also demonstrate that residual contaminant concentrations are protective of groundwater and the Columbia River. The site does not have a deep zone or residual contaminant concentration that would require any institutional controls.	Interim Closed Out	WSRF-2008-029	8-Feb-07	30-Oct-07	Feb-07 thru Feb-08	3,060	3.7 m		Shallow Zone	Overburden	Shallow Zone	Overburden	RC/RB/FS	Staging Pile	Staging Pile
													Cesium-137*	0.084 U	0.074	\	0.031	0.289	0.098 U	\
													Potassium-40	14.3	16.6	\	\	12.5	14.2	\
													Radium-226	0.54	0.707	\	\	0.644	0.51	\
													Radium-228	0.962	0.862	\	\	0.833	0.78	\
													Thorium-228	0.78	0.867	\	\	0.881	0.907	\
													Thorium-232	0.962	0.862	\	\	0.833 J	0.78	\
													Gross Alpha	12.5	15	\	\	21.3	16.3	\
													Gross Beta	22.5	27.3	\	\	26.2	24.7	\
													Aluminum	6250	9650	\	\	11900	7480	\
													Antimony*	0.91 U	1.0	\	\	1.6	0.86 U	\
													Arsenic*	3.3	4.2	2.6	2.8	2.7	18.3	6.7
													Barium*	226	520	109	170	329 C	66.3	58.7
													Beryllium*	0.34	0.61	0.27	0.29	0.41	0.51	0.46
													Boron*	23.7	48.5	8.4	25.7	28.6	1.8	\
													Cadmium*	0.2	0.17 U	\	\	0.23	0.14 U	\
													Calcium	7880	12900 C	\	\	8740 C	5430 C	\
													Chromium*	12.5	10.6	9.1	8.5	9.0	11.0 C	10.4
													Cobalt*	7.1	7.3	6.3	6.3	6.5	6.1	5.8
													Copper*	17	22.3	14.5	17.5	26.5	17.2	15.5
													Hexavalent Chromium*	0.38	0.53	\	0.27	0.36	0.36	0.23
													Iron	19300	18200	\	\	25200 C	16700	\
													Lead*	7	11.7	6	7.3	16.9	60.1	20.2
													Magnesium	4150	5890	\	\	3990 C	4300	\
													Manganese*	335	310 C	288	279	274 C	285 C	264
													Mercury*	0.34	0.1	0.27	\	0.04	0.12	\
													Molybdenum*	0.91 U	1.3	\	\	1.3	0.75	\
													Nickel*	10.9	14.7	10.1	10.6	11.6	12	11
													Potassium	1290	1110	\	\	1220	1300	\
													Selenium*	1.8 U	2.0 U	\	\	1.3 C	1.7 U	\
													Silicon	488	4000	\	\	706 C	279	\
													Silver*	0.30 U	0.33 U	\	\	1.2	0.29 U	\
													Sodium	406	634 C	\	\	980 C	223 C	\
													Vanadium*	48.1	44.7	42.8	39.8	42.3	33.7	30.6
													Zinc*	54.4	73.9	44.2	44.2	77.6 C	38.4 C	36.3
													TPH*	155 U	4930 D	\	\	151 U	418	\
													Anthracene*	0.026 J	0.022 J	\	\	0.020 J	0.026 J	\
													Benzo(a)anthracene*	0.13 J	0.100 J	\	\	0.090 J	0.021 J	\
													Benzo(a)pyrene*	0.12 J	0.11 J	\	\	0.071 J	0.023 JU	\
													Benzo(b)fluoranthene*	0.096 J	0.089 J	\	\	0.049 J	0.075 J	\
													Benzo(ghi)perylene*	0.087 J	0.070 J	\	\	0.067 J	0.087 J	\
													Benzo(k)fluoranthene*	0.101 J	0.097 J	\	\	0.068 J	0.12 J	\
													Bis(2-ethylhexyl)phthalate*	0.149 JB	0.49 JBD	0.0663	0.295	0.45 B	0.51 B	0.245
													Chrysene*	0.159 J	0.14 J	\	\	0.120 J	0.16 J	\
													Dibenz(a,h)anthracene*	0.036 J	0.022 J	\	\	0.37 U	0.39 U	\
													Di-n-butylphthalate*	0.39 U	2.9 UD	\	\	0.026 J	0.026 J	\
													Fluoranthene*	0.287 J	0.22 J	\	\	0.130 J	0.2 J	\
													Indeno(1,2,3-cd)pyrene*	0.074 J	0.071 J	\	\	0.047 J	0.083 J	\
													2-Methylnaphthalene*	0.39 U	2.9 UD	\	\	0.37 U	0.023 J	\
													Naphthalene*	0.39 U	0.018 J	\	\	0.022 J	0.39 U	\
													4-Nitroaniline*	0.98 U	7.1 UD	\	\	0.93 U	0.037 J	\
													Phenanthrene*	0.145 J	0.11 J	\	\	0.140 J	0.15 J	\
													Pyrene*	0.268 J	0.26 J	\	\	0.310 J	0.26 J	\
													Aroclor-1254*	0.019	0.045	\	\	0.092	0.072	\
													Aroclor-1260*	0.017	0.18	\	\	0.060	0.077	\
													Endrin Ketone*	\	\	\	\	\	0.0026 JD	\
													4,4'-DDE*	\	\	\	\	\	0.0029 JD	\

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														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													beta-BHC*	\	\	\	\	\	0.0039 JD	\
													alpha-Chlordane*	\	\	\	\	\	0.0027 JD	\
													gamma-Chlordane*	\	\	\	\	\	0.0026 JD	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list includes only the SVOAs, PCBs, and pesticides that were detected.							

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-26:10 (subsite)	Process Sewer	100-FR-1	Not Documented	1945-1965	The 100-F-26:10 underground pipeline subsite consisted of underground sanitary sewer pipelines consisting of 0.15 m (6 in.) and 0.20 m (8 in.) vitrified clay pipe that received effluent from the 182-F, 183-F, and 151-F Bui+F742ldings and discharged to the 1607-F3 septic system.	Interim Closed Out	WSRF-2007-028	7-Mar-07	12-Mar-07	22-Jan-07 23-Jan-07 14-Aug-07 16-Aug-07	4,275	4.3 m	Americium-241	0.318 U	\	\	\	\	\	\
													Barium-133	0.098 U	\	\	\	\	\	\
													Cesium-137	0.141 U	\	\	\	\	\	\
													Cobalt-60	0.084 U	\	\	\	\	\	\
													Europium-152	0.244 U	\	\	\	\	\	\
													Europium-154	0.197 U	\	\	\	\	\	\
													Europium-155	0.197 U	\	\	\	\	\	\
													Potassium-40	13.3	\	\	\	\	\	\
													Radium-226	0.586	\	\	\	\	\	\
													Radium-228	1.02	\	\	\	\	\	\
													Silver-108	0.063 U	\	\	\	\	\	\
													Thorium-228	0.658	\	\	\	\	\	\
													Thorium-232	1.02	\	\	\	\	\	\
													Uraniuim-235	0.336 U	\	\	\	\	\	\
													Uranium-238	10.1 U	\	\	\	\	\	\
													Aluminum	7290	\	\	\	\	\	\
													Antimony*	1.00 C	\	\	\	\	0.88	\
													Arsenic*	6.4	\	4.4	\	\	4.7	\
													Barium *	87.5 C	\	74.6	\	\	117	\
													Beryllium*	0.35	\	0.23	\	\	0.28	\
													Boron*	4.3	\	4.2	\	\	5.8	\
													Cadmium	0.15 U	\	\	\	\	\	\
													Calcium	6200 C	\	\	\	\	\	\
													Chromium *	10.7 C	\	9.6	\	\	10.7	\
													Hexavalent Chromium*	0.28	\	0.26	\	\	0.27	\
													Cobalt*	6.6	\	6.1	\	\	6.8	\
													Copper*	13.2	\	12.3	\	\	15.8	\
													Iron	16800	\	\	\	\	\	\
													Lead*	12.8	\	10.8	\	\	10.7	\
													Magnesium	4170 C	\	\	\	\	\	\
													Manganese*	328	\	289	\	\	291	\
													Mercury*	0.01	\	\	\	\	\	\
													Molybdenum*	0.64 C	\	\	\	\	\	\
													Nickel *	11.8	\	10.7	\	\	12.3	\
													Potassium	1560	\	\	\	\	\	\
													Selenium*	1.3	\	\	\	\	1.8	\
													Silicon	2660	\	\	\	\	\	\
													Silver	0.27 U	\	\	\	\	\	\
													Sodium	226 C	\	\	\	\	\	\
													Vanadium*	34.8	\	33	\	\	36.5	\
													Zinc*	38.8 C	\	36.6	\	\	51.9	\
													Aroclor-1254*	0.057	\	\	\	\	0.008	\
													Aroclor-1260*	0.054	\	\	\	\	0.01	\
													Dieldrin*	0.0049 JD	\	\	\	\	\	\
													Methoxychlor*	0.0017 JD	\	\	\	\	\	\
													Benzo(a)anthracene*	0.041 J	\	\	\	\	\	\
													Benzo(a)pyrene*	0.039 J	\	\	\	\	0.018	\
													Benzo(b)fluoranthene*	0.019 J	\	\	\	\	0.019	\
													Benzo(g,h,i)perylene*	0.026 J	\	\	\	\	\	\
													Benzo(k)fluoranthene*	0.048 J	\	\	\	\	0.025	\
													Bis(2-ethylhexyl)phthalate*	0.12 JB	\	145	\	\	0.25	\
													Chrysene*	0.060 J	\	\	\	\	0.023	\
													Di-n-butylphthalate*	0.026 JB	\	\	\	\	0.34	\
													Fluoranthene*	0.12 JB	\	\	\	\	0.026	\
													Indeno(1,2,3-cd)pyrene*	0.024 J	\	\	\	\	\	\
													Phenanthrene*	0.098 J	\	\	\	\	\	\
													Pyrene*	0.11 J	\	\	\	\	0.33	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. This list only includes PCBs, pesticides and SVOAs that were detected.							

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Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-26:11 (subsite)	Process Sewer	100-FR-1	0.15 m (6 in.) diameter	1945-1965	The 100-F-26:11 subsite was located approximately 139 m (456 ft) west of the 105-F Reactor Building. The subsite consisted of a 0.15 m (6 in.) diameter vitrified clay pipe that received effluent from the 115-F Gas Recirculation Building. The pipe originated at the southwest corner of the 115-F Gas Recirculation Building and carried flow west approximately 53.6 m (178 ft). The pipeline terminated at the inlet to the 1607-F4 septic tank.	No Action	WSRF-2005-003	N/A	N/A	11/22/04 (confirmatory sampling)	N/A	1.5 m	Americium-241	0.22 U	\	\	\	\	\	\
													Cesium-137*	0.521	\	\	\	\	\	\
													Cobalt-60	0.049 U	\	\	\	\	\	\
													Europium-152	0.1 U	\	\	\	\	\	\
													Europium-154	0.16 U	\	\	\	\	\	\
													Europium-155	0.14 U	\	\	\	\	\	\
													Gross alpha	19.5	\	\	\	\	\	\
													Gross beta	22.3	\	\	\	\	\	\
													Potassium-40*	14.1	\	\	\	\	\	\
													Radium-226*	1.28	\	\	\	\	\	\
													Radium-228*	1.55	\	\	\	\	\	\
													Thorium-228*	1.62	\	\	\	\	\	\
													Thorium-232*	1.55	\	\	\	\	\	\
													Uranium-235	0.18 U	\	\	\	\	\	\
													Uranium-238	5.7 U	\	\	\	\	\	\
													Aluminum	7370	\	\	\	\	\	\
													Antimony	1.7 U	\	\	\	\	\	\
													Arsenic*	2.9	\	\	\	\	\	\
													Barium*	260 C	\	\	\	\	\	\
													Beryllium	0.06 U	\	\	\	\	\	\
													Boron*	40 C	\	\	\	\	\	\
													Cadmium*	0.25	\	\	\	\	\	\
													Calcium	7270 C	\	\	\	\	\	\
													Chromium*	10.7 C	\	\	\	\	\	\
													Cobalt*	6.8	\	\	\	\	\	\
													Copper*	21.8	\	\	\	\	\	\
													Hexavalent Chromium*	7.4	\	\	\	\	\	\
													Iron	18500	\	\	\	\	\	\
													Lead*	47.7	\	\	\	\	\	\
													Magnesium	3790 C	\	\	\	\	\	\
													Manganese*	294	\	\	\	\	\	\
													Mercury*	0.17	\	\	\	\	\	\
													Molybdenum*	0.24	\	\	\	\	\	\
													Nickel*	11.2	\	\	\	\	\	\
													Potassium	1580 C	\	\	\	\	\	\
													Selenium	2.2 U	\	\	\	\	\	\
													Silicon	276 C	\	\	\	\	\	\
													Silver	0.59 U	\	\	\	\	\	\
													Sodium	604 C	\	\	\	\	\	\
													Vanadium*	46.8 C	\	\	\	\	\	\
													Zinc*	80	\	\	\	\	\	\
													Aroclor-1260*	0.12	\	\	\	\	\	\
													4,4'-DDT*	0.094 J	\	\	\	\	\	\
													2-Methylnaphthalene*	0.058 J	\	\	\	\	\	\
													Benzo(a)anthracene*	0.049 J	\	\	\	\	\	\
													Benzo(a)pyrene*	0.049 J	\	\	\	\	\	\
													Benzo(b)fluoranthene*	0.064 J	\	\	\	\	\	\
													Benzo(g,h,i)perylene*	0.03 J	\	\	\	\	\	\
													Benzo(k)fluoranthene*	0.06 J	\	\	\	\	\	\
													Bis(2-ethylhexyl)phthalate*	0.45	\	\	\	\	\	\
													Butylbenzylphthalate*	0.02 J	\	\	\	\	\	\
													Chrysene*	0.081 J	\	\	\	\	\	\
													Di-n-butylphthalate*	0.038 JB	\	\	\	\	\	\
													Dibenzofuran*	0.02 J	\	\	\	\	\	\
													Fluoranthene*	0.11 J	\	\	\	\	\	\
													Indeno(1,2,3-cd)pyrene*	0.032 J	\	\	\	\	\	\
													Naphthalene*	0.061 J	\	\	\	\	\	\
													Phenanthrene*	0.098 J	\	\	\	\	\	\
													Pyrene*	0.093 J	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. This list only includes PCBs, pesticides and SVOAs that were detected.							

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-26:12 (subsite)	Process Sewer	100-FR-1	308 m (1,011 ft) long, 1.8 m (72 in.) diameter	1945-1965	The 100-F-26:12 underground pipeline subsite consisted of a 1.8 m (72 in.) diameter reinforced concrete pipe that joined the North Process Sewer Pipelines (100-F-26:1) and the South Process Pipelines (100-F-26:4) with the 1.8 m (72 in.) reactor cooling water effluent pipeline (100-F-19).	Interim Closed Out	WSRF-2007-034	11-Jan-07	4-Oct-07	September and October 2007	6,525	6.0 m	Americium-241	0.266 U	\	\	\	\	0.322 U	\
													Barium-133	0.052 U	\	\	\	\	0.058 U	\
													Cesium-137*	0.035 U	\	\	\	\	0.079	0.039
													Cobalt-60	0.039 U	\	\	\	\	0.041 U	\
													Europium-152*	0.039 U	\	\	\	\	0.081	0.048
													Europium-154	0.129 U	\	\	\	\	0.137 U	\
													Europium-155	0.108 U	\	\	\	\	0.113 U	\
													Nickel-63	3.42 U	\	\	\	\	6.03 U	\
													Potassium-40	15.2	\	\	\	\	15.2	\
													Radium-226	0.541	\	\	\	\	0.592	\
													Radium-228	0.742	\	\	\	\	0.839	\
													Silver-108	0.025 U	\	\	\	\	0.028 U	\
													Thorium-228	0.726	\	\	\	\	0.752	\
													Thorium-232	0.742	\	\	\	\	0.839	\
													Strontium-90*	0.362 U	\	\	\	\	0.563	0.26
													Uranium-235	0.159 U	\	\	\	\	0.168 U	\
													Uranium-238	4.46 U	\	\	\	\	4.6 U	\
													Carbon-14	3.39 U	\	\	\	\	62.7 J	\
													Tritium*	4.58 U	\	\	\	\	12.6	4.7
													Gross alpha	17.3	\	\	\	\	18.7	\
													Gross beta	41	\	\	\	\	23.7	\
													Aluminum	5720 C	\	\	\	\	7120	\
													Antimony*	1.0 C	\	\	\	\	1.2 B	\
													Arsenic*	6.2	\	3.5	\	\	4.4	3.6
													Barium*	68 C	\	52.9	\	\	82.4	72.3
													Beryllium*	0.23	\	0.18	\	\	0.33	0.26
													Boron*	2.1 C	\	1.5	\	\	4.6	3.4
													Cadmium	0.15 U	\	\	\	\	0.30 B	\
													Calcium	12400 C	\	\	\	\	11800 C	\
													Chromium*	8.8	\	7.8	\	\	11.8	10.7
													Hexavalent Chromium*	0.36	\	0.31	\	\	0.33	1.4
													Cobalt*	5.4	\	5	\	\	6.5	5.9
													Copper*	18.3	\	13.7	\	\	14.2	13.4
													Iron	12400	\	\	\	\	17800	\
													Lead*	13.7	\	7.1	\	\	10.2	5.8
													Magnesium	3760 C	\	\	\	\	4270 C	\
													Manganese*	249	\	223	\	\	274	261
													Mercury*	0.04	\	\	\	\	0.08	0.05
													Molybdenum*	0.48	\	\	\	\	0.78	\
													Nickel*	10.3	\	9.2	\	\	11.4	10.8
													Potassium	1040 C	\	\	\	\	1140	\
													Selenium	1.3 U	\	\	\	\	1.3 U	\
													Silicon	3160	\	\	\	\	3360	\
													Silver	0.27 U	\	\	\	\	0.31 U	\
													Sodium	299 C	\	\	\	\	261	\
													Vanadium*	31.7	\	28.1	\	\	40	37.4
													Zinc*	39.2 C	\	31.9	\	\	50.5	42.5
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														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-26:13 (subsite)	Process Sewer	100-FR-1	1-0.15 m (6 in.) diameter 2-0.2 m (8 in.) diameter 1-0.31 m (12 in.) diameter	1945-1965	The 100-F-26:13 subsite consisted of one 0.15 m (6 in.), two 0.2 m (8 in.), and one 0.31 m (12 in.) diameter vitrified clay pipe segment encased in concrete. The pipelines discharged effluent from the former 108-F Biological Laboratory, which was originally built in 1944 to support treatment of cooling water for use in the 105-F Reactor, to the 188-D Ash Disposal Area (126-F-1). In 1949, the 108-F Building was completely remodeled for use in life-science studies to test the effects of radiation and contamination on plant and animal life. In 1999, the 108-F Building was decontaminated, demolished, and removed; however, the 100-F-26:13 pipeline segments were left in place.	Interim Closed Out	WSRF-2005-011	5-Feb-07	24-Aug-07	July and August 2007	1,305	5.2 m	Americium-241	0.337 U	\	\	\	\	0.134 U	\
													Barium-133	0.056 U	\	\	\	\	0.065 U	\
													Carbon-14*	13.1	\	3.35	\	\	3.36 U	\
													Cesium-134	0.051 U	\	\	\	\	0.11 U	\
													Cesium-137*	0.055	\	0.036	\	\	0.127	\
													Cobalt-60	0.05 U	\	\	\	\	0.041 U	\
													Curium-242	0.034 U	\	\	\	\	\	\
													Curium-243/244	0.035 U	\	\	\	\	\	\
													Europium-152	0.103 U	\	\	\	\	0.118 U	\
													Europium-154	0.169 U	\	\	\	\	0.136 U	\
													Europium-155	0.123 U	\	\	\	\	0.093 U	\
													Gross alpha	36.4	\	\	\	\	19.3	\
													Gross beta*	116	\	\	\	\	29.6	\
													Neptunium-237	0.154 U	\	\	\	\	\	\
													Nickel-63	3.09 U	\	\	\	\	\	\
													Plutonium-238	0.194 U	\	\	\	\	\	\
													Plutonium-239/240	0.194 U	\	\	\	\	\	\
													Potassium-40	16.3	\	\	\	\	15.6	\
													Radium-226	0.625	\	\	\	\	0.537	\
													Radium-228	0.81	\	\	\	\	0.848	\
													Silver-108	0.032 U	\	\	\	\	0.028 U	\
													Technetium-99	0.614 U	\	\	\	\	\	\
													Thorium-228	0.964	\	\	\	\	0.947	\
													Thorium-232	0.81	\	\	\	\	0.848	\
													Strontium-90*	2.01	\	\	\	\	\	\
													Tritium	4.58 U	\	\	\	\	\	\
													Uranium-233/234	0.655	\	\	\	\	\	\
													Uranium-235	0.217 U	\	\	\	\	0.157 U	\
													Uranium-238	0.217 U	\	\	\	\	0.157 U	\
													Aluminum	6940 C	\	\	\	\	5760 C	\
													Antimony	0.66 U	\	\	\	\	0.65 U	\
													Arsenic*	5.5	\	4.2	\	\	9.6	\
													Barium*	63.3 C	\	50.7	\	\	92.8 C	\
													Beryllium*	0.4	\	0.33	\	\	0.4	\
													Boron*	1.9	\	1.33	\	\	6.1	\
													Cadmium	0.15 U	\	\	\	\	0.15 U	\
													Calcium	5520 C	\	\	\	\	5390 C	\
													Chromium*	11	\	9	\	\	11.6	\
													Cobalt*	5.8	\	5.2	\	\	6.4	\
													Copper*	12.3 C	\	11.1	\	\	12.1 C	\
													Hexavalent Chromium	0.2 U	\	\	\	\	0.2 U	\
													Iron	16700 C	\	\	\	\	16600 C	\
													Lead*	18.9	\	11	\	\	29.6	\
													Magnesium	3820	\	\	\	\	3720 C	\
													Manganese*	277	\	228	\	\	295	\
													Mercury	0.02 U	\	\	\	\	0.02 U	\
													Molybdenum*	0.65	\	0.46	\	\	0.52	\
													Nickel*	10	\	9	\	\	10.2	\
													Potassium	1240 C	\	\	\	\	1120 C	\
													Selenium	1.3 U	\	\	\	\	1.3 U	\
													Silicon	1790 C	\	\	\	\	1410 C	\
													Silver	0.27 U	\	\	\	\	0.27 U	\
													Sodium	175 C	\	\	\	\	199 C	\
													Vanadium*	42.5	\	33.3	\	\	39	\
													Zinc*	40.8	\	34.9	\	\	44.9 C	\
													Aroclor-1254*	0.0081 J	\	\	\	\	0.038	\
													Aroclor-1260*	0.015	\	\	\	\	0.014	\
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														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-26:14 (subsite)	Process Sewer	100-FR-1	10.2 cm (4 in.) diameter 30.48 cm (12 in.) diameter 15.24 cm (6 in.) diameter 15.24 cm (6 in.) diameter	1945-1965	The 100-F-26:14 subsite consisted of underground pipelines located southwest of the 105-F Building influent pipeline (10.2 cm [4 in.]) that ran from the 105-F Reactor Building to the 116-F-5 Ball Washer Crib, two process pipelines (30.48 cm [12 in.] and 15.24 cm [6 in.]) that connected to a previously remediated process pipeline (100-F-19:2), and a short 15.24 cm (6 in.) cast-iron pipe. These pipelines were associated with the 116-F-5 Ball Washer Crib and remnants of process pipelines on the west side of the 105-F Building.	Interim Closed Out	WSRF-2007-029	1-Feb-07	24-Apr-07	08-Aug-07 09-Aug-07 21-Aug-07	1,575	8 m	Americium-241	0.307 U	\	\	\	\	0.263 U	\
													Barium-133	0.055 U	\	\	\	\	0.085 U	\
													Cesium-137*	0.263	\	0.206	\	\	1.96	1.43
													Cobalt-60*	0.089	\	0.073	\	\	0.252	0.179
													Europium-152*	0.525	\	0.37	\	\	1.36	1.07
													Europium-154	0.135 U	\	\	\	\	0.247 U	\
													Europium-155	0.117 U	\	\	\	\	0.185 U	\
													Nickel-63	3.73 U	\	\	\	\	9.62	7.04
													Potassium-40	14.6	\	\	\	\	15	\
													Radium-226	0.484	\	\	\	\	0.464	\
													Radium-228	0.753	\	\	\	\	0.832	\
													Silver-108	0.03 U	\	\	\	\	0.063 U	\
													Thorium-228	0.779	\	\	\	\	0.942	\
													Thorium-232	0.753	\	\	\	\	0.832	\
													Strontium-90	0.302 U	\	\	\	\	0.373	0.304
													Uranium-235	0.169 U	\	\	\	\	0.27 U	\
													Uranium-238	4.53 U	\	\	\	\	9.43 U	\
													Aluminum	6920 C	\	\	\	\	6750 C	\
													Antimony*	0.83 J	\	0.79	\	\	0.66 U	\
													Arsenic*	3.1	\	2.8	\	\	3.1	2.9
													Barium*	216 C	\	101	\	\	105 C	90.1
													Beryllium*	0.33	\	0.21	\	\	0.21 C	0.21
													Boron*	31.6	\	11	\	\	13.5 C	9.2
													Cadmium	0.15 U	\	\	\	\	0.19	0.17
													Calcium	7630 C	\	\	\	\	6200	\
													Chromium*	9.5 C	\	9.3	\	\	9.7 C	9.4
													Hexavalent Chromium*	0.50	\	0.38	\	\	0.2 U	\
													Cobalt*	6.6 C	\	6.3	\	\	6.8	6.5
													Copper*	13.2	\	12.6	\	\	15.3	14.7
													Iron	16700 C	\	\	\	\	18100 C	\
													Lead*	5.9	\	5.3	\	\	20.4	15.1
													Magnesium	3820 C	\	\	\	\	4030 C	\
													Manganese*	291	\	272	\	\	298	297
													Mercury*	0.02	\	0.01	\	\	0.07	0.06
													Molybdenum*	0.51	\	0.32	\	\	0.56 C	0.45
													Nickel*	10	\	9.9	\	\	10.4 C	10.2
													Potassium	1060 C	\	\	\	\	1120 C	\
													Selenium	1.3 U	\	\	\	\	1.3 U	\
													Silicon	1610 CJ	\	\	\	\	3710	\
													Silver	0.27 U	\	\	\	\	0.27 U	\
													Sodium	481 C	\	\	\	\	227 C	\
													Vanadium*	40.2 CJ	\	39.6	\	\	42.4	40.3
													Zinc*	35.9 C	\	35.6	\	\	38.9 C	38.7
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs.							

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-26:15 (subsite)	Process Sewer	100-FR-1	Not Documented	1945-1965	The 100-F-26:15 subsite included the miscellaneous pipelines associated with 132-F-6, 1608-F Waste Water Pumping Station. The waste site was located east and southeast of the 105-F Reactor Building, within the former 105-F Exclusion Area fence.	Interim Closed Out	WSRF-2007-031	29-Jan-07	31-Jan-07	24-Jul-07 30-Jul-07	184.5	N/A	Americium-241	1.3 U	\	\	\	\	0.173 U	\
													Barium-133	0.05 U	\	\	\	\	0.045 U	\
													Carbon-14	2.52	\	\	\	\	\	\
													Cesium-137*	0.208	\	0.092	\	\	0.103	\
													Cobalt-60	0.13 U	\	\	\	\	0.036 U	\
													Curium-242	0.27 U	\	\	\	\	\	\
													Curium-243/244	0.41 U	\	\	\	\	\	\
													Europium-152*	0.451	\	0.205	\	\	0.309	\
													Europium-154	0.56 U	\	\	\	\	0.119 U	\
													Europium-155	0.47 U	\	\	\	\	0.124 U	\
													Gross alpha	17.4	\	\	\	\	16.3	\
													Gross beta	29.2	\	\	\	\	8.89	\
													Nickel-63	4.2 U	\	\	\	\	\	\
													Plutonium-238	0.456 U	\	\	\	\	\	\
													Plutonium-239/240	0.316 U	\	\	\	\	\	\
													Potassium-40	28.6	\	\	\	\	15.5	\
													Radium-226	1.06	\	\	\	\	0.508	\
													Radium-228	1.84	\	\	\	\	0.857	\
													Silver-108	0.12 U	\	\	\	\	0.025 U	\
													Thorium-228	1.47	\	\	\	\	0.894	\
													Thorium-232	1.84	\	\	\	\	0.857	\
													Strontium-90	0.35 U	\	\	\	\	\	\
													Tritium	2.4 U	\	\	\	\	\	\
													Uranium-235	0.660 U	\	\	\	\	0.139 U	\
													Uranium-238	21 U	\	\	\	\	\	\
													Aluminum	6870	\	\	\	\	5770 C	\
													Antimony*	0.85	\	\	\	\	0.65 U	\
													Arsenic*	3.1	\	2.3	\	\	2.5	\
													Barium*	206 C	\	77.3	\	\	66.9 C	\
													Beryllium*	0.34	\	0.25	\	\	0.29 B	\
													Boron*	12.9	\	3.7	\	\	1.9 B	\
													Cadmium*	0.17	\	\	\	\	0.15 U	\
													Calcium	6820 C	\	\	\	\	5240 C	\
													Chromium*	11.4 C	\	\	\	\	9.5 C	\
													Cobalt*	7.2	\	\	\	\	5.9 B	\
													Copper*	14.6 C	\	12.7	\	\	14.3 C	\
													Hexavalent Chromium*	0.35	\	0.24	\	\	0.2 U	\
													Iron	18700	\	\	\	\	15600 C	\
													Lead*	4.8	\	4.1	\	\	5.0	\
													Magnesium	4130 C	\	\	\	\	3630 C	\
													Manganese*	355	\	280	\	\	277	\
													Mercury*	0.13	\	\	\	\	0.02 U	\
													Molybdenum	0.81	\	0.56	\	\	0.48 U	\
													Nickel	11.7	\	9.6	\	\	9.7 B	\
													Potassium	1570	\	\	\	\	1050 C	\
													Selenium	1.3 U	\	\	\	\	1.3 U	\
													Silicon	1840 C	\	\	\	\	1690 C	\
													Silver	0.27 U	\	\	\	\	0.27 U	\
													Sodium	216 C	\	\	\	\	193 BC	\
													Vanadium*	43.1	\	34.5	\	\	36.7	\
													Zinc*	39.4 C	\	33.4	\	\	34.8 C	\
													PCBs	0.014 U	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs.							
100-F-26:16 (subsite)	Process Sewer	100-FR-1	Not Documented	1945-1965	Given that (1) the 105-F Reactor pipelines are believed to be removed, (2) the tunnels have been backfilled, and (3) the 105-B and 105-C Reactor Cooling Water Tunnels have been determined to meet cleanup criteria and through evaluation, the 100-F-26:16 Reactor Cooling Water Pipelines are analogous to the 105-B and 105-C Reactor Cooling Water Tunnels, the 100-F-26:16 Reactor Cooling Water Tunnels meet the cleanup criteria and the residual contaminant levels are protective of human health, groundwater, and the Columbia River.	No Action	WSRF-2004-120	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-F-28	Septic Tank	100-FR-2	Not Documented	Not Documented	The unit would have received sanitary sewage. Because the unit appears to have supported only one building and that building is not near any contaminated facilities, it is highly unlikely that it received any radiological contamination. This septic system was apparently removed when the larger area around it was excavated to a 3 to 5 m (10 to 15 ft) depth many years ago. The site was included in EPA/ROD/R10‑99/039, but without a reason provided. It serviced an isolated office building in the north part of the 100‑F Area.	Rejected	WSRF 2001-030	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-29	Radioactive Process Sewer	100-FR-1	22 cm (8.7 in.) diameter 15 cm (6 in.) diameter 8 cm (3 in.) diameter	1945-1976	The site consisted of contaminated pipelines that existed at the 100‑F Area Experimental Animal Farm site. The waste was mixed (chemically and radiologically) contaminated piping (concrete, steel, and vitrified clay) and contaminated soil. Several radioisotopes were used in varying concentrations. These included iodine-131, strontium-90, cesium-137, and isotopes of plutonium and uranium. All such research generated contaminated urine and feces. Other wastes resulted from cleaning contaminated pens and cages with water.	Interim Closed Out	CVP-2001-00003	See 100-F-19:2. This site was remediated along with 100-F-19:2 and the sample results are the same.											
100-F-30	French Drain	100-FR-1	Not Documented	Not Documented	The site was a drywell on the south side of the 144-F Building. During a site investigation on January 2, 1997, no evidence of a drywell was visible. The drywell received rainwater from the roof of the 144‑F Building.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-F-31	Septic Tank	100-FR-1	2.6 m x 1.1 m (8.5 ft x 3.6 ft)	1949-1976	The site was a septic system, drain field, and associated piping that supported the 144-F Building. The facility included laboratories that performed radiological studies on various species of animals. The septic system treated and disposed of human and animal waste.	Interim Closed Out	WSRF 2006-033	14-Oct-04	17-May-06	06-Feb-06 and 17-May-06	776.7	3	Americium-241	0.47 U	\	\	\	\	\	\
													Cesium-137	0.18 U	\	\	\	\	\	\
													Cobalt-60	0.18 U	\	\	\	\	\	\
													Europium-152	0.55 U	\	\	\	\	\	\
													Europium-154	0.59 U	\	\	\	\	\	\
													Europium-155	0.36 U	\	\	\	\	\	\
													Potassium-40	15.4	\	\	\	\	\	\
													Radium-226	0.714	\	\	\	\	\	\
													Radium-228	0.769	\	\	\	\	\	\
													Thorium-228	0.687	\	\	\	\	\	\
													Thorium-232	0.769	\	\	\	\	\	\
													Uranium-235	0.53 U	\	\	\	\	\	\
													Uranium-238	23 U	\	\	\	\	\	\
													Aluminum	5950	\	\	\	\	\	\
													Antimony	0.49 UJ	\	\	\	\	\	\
													Arsenic*	6.2 C	\	5	\	\	\	\
													Barium*	96.3	\	86.9	\	\	\	\
													Beryllium*	0.2	\	0.17	\	\	\	\
													Boron*	4	\	2.7	\	\	\	\
													Cadmium*	0.86 C	\	0.66	\	\	\	\
													Calcium	6270	\	\	\	\	\	\
													Chromium (total)*	10.7	\	9.3	\	\	\	\
													Chromium (hexavalent)*	0.55	\	0.31	\	\	\	\
													Cobalt*	4.8	\	4.5	\	\	\	\
													Copper*	16.5	\	13.9	\	\	\	\
													Iron	16700	\	\	\	\	\	\
													Lead*	12.9	\	13	\	\	\	\
													Magnesium	3750	\	\	\	\	\	\
													Manganese*	281	\	230	\	\	\	\
													Mercury	1.2	\	\	\	\	\	\
													Molybdenum	0.41 UC	\	\	\	\	\	\
													Nickel*	11.1	\	10	\	\	\	\
													Potassium	1060	\	\	\	\	\	\
													Selenium	0.38 U	\	\	\	\	\	\
													Silicon	707 J	\	\	\	\	\	\
													Silver	0.44 U	\	\	\	\	\	\
													Sodium	307 C	\	\	\	\	\	\
													Vanadium*	37.5	\	33.6	\	\	\	\
													Zinc*	66.2	\	47.2	\	\	\	\
													PCBs	0.015 U	\	\	\	\	\	\
													Benzo(a)anthracene*	0.054	\	0.13	\	\	\	\
													Benzo(a)pyrene*	0.046	\	0.15	\	\	\	\
													Benzo(b) fluoranthene*	0.042	\	0.15	\	\	\	\
													Benzo(g,h,i) perylene*	0.028	\	\	\	\	\	\
													Benzo(k) fluoranthene*	0.048	\	0.13	\	\	\	\
													Chrysene*	0.065	\	0.11	\	\	\	\
													Fluoranthene*	0.088	\	0.17	\	\	\	\
													Indeno(1,2,3-cd)pyrene*	0.025	\	\	\	\	\	\
													Phenanthrene*	0.034	\	\	\	\	\	\
													Pyrene*	0.12	\	0.18	\	\	\	\
													Aroclor-1254*	0.03	\	0.016	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list only includes the SVOAs that were detected.							
100-F-32	Storage Tank	100-FR-1	10.7 m (35 ft) long 2.4 m (8 ft) diameter (3 tanks)	Not Documented	The site consisted of three underground fuel oil storage tanks. Each tank had a capacity of 94,625 L (25,000 gal). Pipelines ran to the 1717-F Building (Combined Shops) through a pump pit immediately east of the tanks.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-33	Unplanned Release	100-FR-1	3.35 m x 2.90 m (11 ft x 9.5 ft) small pond 15.54 m x 1.83 m (51 ft x 6 ft) large pond 9.1 m (30 ft) diameter circular pond)	1945-1976	The 100-F-33 waste site was the 146-F Aquatic Biology Fishponds and the fish laboratory that were designed to conduct tests on fish. Originally, there were six divided small ponds, one circular pond, and one rectangular pond. The site is an area where unplanned releases likely occurred from the fishponds. The ponds were removed. During site walkdowns, there was no visual evidence remaining to indicate where they were originally located. The excavated material staged onsite during remedial activities consisted of soil and debris and was completely disposed of at the ERDF. There was no potential for contaminant migration into soils underlying the former staging pile; therefore, a statistical sampling design was not warranted for the staging pile footprint and professional judgment was used to develop the sampling design.	Interim Closed Out	WSRF 2006-021	5-Aug-05	8-Aug-05	24-Jan-06	1,965	2.5	Antimony	0.43 UJ	\	\	\	\	0.41 UJ	\
													Arsenic*	7.3	\	4.5	\	\	3.7 U	\
													Barium*	75.4	\	68.3	\	\	77.4	\
													Beryllium*	0.06	\	0.03	\	\	0.01 U	\
													Boron*	1.9	\	1.7	\	\	2	\
													Cadmium*	0.14	\	\	\	\	0.07 U	\
													Chromium (total)*	10.2	\	9.5	\	\	9.4	\
													Cobalt*	6.1	\	5.5	\	\	5.4	\
													Copper*	13.5	\	11.6	\	\	12.5	\
													Lead*	12.9	\	9.9	\	\	7.3	\
													Manganese*	287	\	258	\	\	250	\
													Mercury*	0.05	\	\	\	\	0.38	\
													Molybdenum*	0.41	\	0.23	\	\	0.28	\
													Nickel*	11.2	\	10.3	\	\	9.9	\
													Selenium	0.39 U	\	\	\	\	0.17	\
													Silver	0.15 U	\	\	\	\	0.17	\
													Vanadium*	39.7	\	33.8	\	\	36.1	\
													Zinc*	147	\	69	\	\	49	\
													TPH	152 U	\	\		\	133 U	\
													Aroclor-1254*	0.26 J	\	0.36	\	\	0.048 J	\
													2-Methylnaphthalene*	0.031 J	\	\	\	\	0.36 U	\
													Di-n-butylphthalate*	0.03 J	\	\	\	\	0.03 J	\
													Naphthalene*	0.022 J	\	\	\	\	0.36 U	\
													Phenol*	0.019 J	\	\	\	\	0.36 U	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list only includes the SVOAs and PCBs that were detected.							
100-F-34	French Drain	100-FR-1	0.74 m (29-in.) diameter	Not Documented	The site had been a 0.74 m (29-in.) diameter drain with a steel cover. It was not known what purpose this site served. The pipeline that connected the French drain to a facility has not been located on any of the numerous drawings that have been researched for this area. The drain was located due south of the demolished 1705-F Experimental Gardens and is believed to have been associated with one of the Biology Facilities that were part of the Experimental Animal Farm.	Interim Closed Out	CVP-2001-00002	See 100-F-19:1. This site was remediated along with 100-F-19:1 and the sample results are the same.												
100-F-35	Unplanned Release	100-FR-2	4.7 m x 3.9 m (15.4 ft x 12.8 ft)	Not Documented	The site consisted of an area of radiologically contaminated soil, reading 60,000 dpm identified within the 105-F Exclusion Area. The ground contamination was the result of a large container placed in this area to hold contaminated soil removed from the 116-F-4 Pluto Crib. Soil samples from the 116-F-4 Crib identified strontium-90 and cesium-137 as the major contaminants.	Interim Closed Out	CVP-2002-00007	1-Oct-02	7-Jan-03	20-Nov-02 and 07-Jan-03	75.4	0.9	Americium-241	1.83	\	1.4	\	\	\	\
													Cesium-137	2.56	\	2.08	\	\	\	\
													Cobalt-60	0.042 U	\	0.0185	\	\	\	\
													Europium-152	0.12 U	\	0.0549	\	\	\	\
													Europium-154	0.13 U	\	0.0615	\	\	\	\
													Plutonium-239/240	1.68	\	1.56	\	\	\	\
													Strontium-90	0.638	\	0.49	\	\	\	\
													Uranium-233/234	0.913	\	0.782	\	\	\	\
													Uranium-238	0.806	\	0.721	\	\	\	\
													Chromium (hexavalent)	0.52	\	0.52	\	\	\	\
100-F-36	Laboratory	100-FR-1	45.87 m x 9.75 m (150 ft x 32 ft)	1944-1973	The site consisted of a building that was demolished in August 1999. It was a chemical makeup facility that supported the 105-F Reactor. In 1948, the building was converted to a biological laboratory to test the effects of radiation on animals and biological systems. Biological experiments used a variety of hazardous materials and radiological isotopes including plutonium. From 1983 through 1984, the first floor of the 108-F Building was used for office space. Between 1984 and 1996, the facility was maintained in a safe condition through the S&M Programs of the site's contractors. Most of the building debris and foundations were removed.	No Action	WSRF 2007-002	1999 (demolition)	N/A	05-Dec-06 (Confirmatory sampling)	N/A	2.1 m (depth of confirmatory sampling).	Americium-241	0.18 U	\	\	\	0.26 U	\	\
													Cesium-137	0.069 U	\	\	\	0.043 U	\	\
													Cobalt-60	0.064 U	\	\	\	0.037 U	\	\
													Europium-152	0.18 U	\	\	\	0.093 U	\	\
													Europium-154	0.23 U	\	\	\	0.14 U	\	\
													Europium-155	0.20 U	\	\	\	0.11 U	\	\
													Nickel-63	3.4 U	\	\	\	3.5 U	\	\
													Plutonium-238	0.19 U	\	\	\	0.19 U	\	\
													Plutonium-239/240	0.16 U	\	\	\	0.18 U	\	\
													Potassium-40	28.4	\	\	\	20.9	\	\
													Radium-226	0.724	\	\	\	0.892	\	\
													Radium-228	1.17	\	\	\	0.854	\	\
													Silver-108 m	0.044 U	\	\	\	0.027 U	\	\
													Thorium-228	1.22	\	\	\	1.01	\	\
													Thorium-232	1.17	\	\	\	1.23	\	\
													Strontium-90	0.28 U	\	\	\	0.30 U	\	\
													Uranium-233/234*	0.687	\	0.716	\	0.569	\	\
													Uranium-235	0.17 U	\	\	\	0.16 U	\	\
													Uranium-238*	1.01	\	0.963	\	0.727	\	\
													Aluminum	3660	\	\	\	5110	\	\
													Antimony	0.71 U	\	\	\	0.77 U	\	\
													Arsenic*	1.8	\	1.7	\	3	\	\
													Barium*	33.5	\	32.5	\	86.1	\	\
													Beryllium*	0.19	\	0.19	\	0.35	\	\
													Boron	0.54 U	\	\	\	1.2	\	\
													Cadmium	0.09 U	\	\	\	0.09 U	\	\
													Calcium	5660 C	\	\	\	5370 C	\	\
													Chromium (total)*	6.9	\	6.6	\	10.6	\	\
													Chromium (hexavalent)*	0.32 J	\	\	\	0.87 J	\	\
													Cobalt*	3.8	\	3.7	\	6.9	\	\
													Copper*	10.2	\	10	\	12.1	\	\
													Iron	10800	\	\	\	18900	\	\
													Lead*	2	\	2.1	\	5.5	\	\
													Magnesium	3020 C	\	\	\	3640 C	\	\
													Manganese*	195	\	194	\	356	\	\

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Mercury	0.02 U	\	\	\	0.05	\	\
													Molybdenum	0.46 U	\	\	\	0.49 U	\	\
													Nickel*	8.1	\	8	\	9	\	\
													Potassium	466	\	\	\	1230	\	\
													Selenium	1.2 U	\	\	\	1.3 U	\	\
													Silicon	404 J	\	\	\	474 J	\	\
													Silver	0.14 U	\	\	\	0.15 U	\	\
													Sodium	133 C	\	\	\	190 C	\	\
													Vanadium*	27.7	\	27.3	\	44.8	\	\
													Zinc-*	25.3	\	25.2	\	41	\	\
													Asbestos	ND	\	\	\	ND	\	\
													PCBs	0.014 UJ	\	\	\	0.014 UJ	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs.							

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Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-37	French Drain	100-FR-1	Not Documented	Not Documented	The site consisted of an abandoned French drain. This French drain was discovered when a trench for electrical conduit was being dug in November 2000. The analytical results showed a high level of lead at 214 ppm.	No Action	WSRF 2004-095	N/A	N/A	03-Nov-00 (waste sampling)	N/A	>1	Arsenic*	17.3	\	\	\	\	\	\
													Barium*	508	\	\	\	\	\	\
													Cadmium*	0.71	\	\	\	\	\	\
													Chromium (total)*	18.1	\	\	\	\	\	\
													Lead*	214	\	\	\	\	\	\
													Mercury*	0.07	\	\	\	\	\	\
													Selenium	1.9 U	\	\	\	\	\	\
													Silver	0.62 U	\	\	\	\	\	\
													Bis(2-ethylhexyl) phthalate	0.34 JB	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list includes only the SVOAs that were detected.							
100-F-38	Unplanned Release - Stained Soil Site	100-FR-1	1.58 m x 1.33 m (5.18 ft x 4.36 ft)	Not Documented	The site was an area of stained soil discovered in November 2000 while excavating a trench for the placement of electrical conduit. Following the collection of the soil sample and the placement of the electrical conduit in the trench, the excavated soil was returned to the trench as backfill. The origin of this yellow soil, or its potential association with any other structures or operations in the vicinity of this area, has not been confirmed. However, based on observations at the time of discovery, the 100-F-38 site appears to be an isolated area associated with the disposal of yellow paint.	Interim Closed Out	WSRF 2004-093	15-Sep-05	15-Sep-05	2-Nov-05	5.4	0.9	Americium-241	0.41 U	\	\	\	\	\	\
													Cesium-137	0.042 U	\	\	\	\	\	\
													Cobalt-60	0.046 U	\	\	\	\	\	\
													Europium-152	0.12 U	\	\	\	\	\	\
													Europium-154	0.15 U	\	\	\	\	\	\
													Europium-155	0.18 U	\	\	\	\	\	\
													Potassium-40	23.8	\	\	\	\	\	\
													Radium-226*	0.957	\	\	\	\	\	\
													Radium-228	1.36	\	\	\	\	\	\
													Thorium-228	1.27 J	\	\	\	\	\	\
													Thorium-232	1.36	\	\	\	\	\	\
													Uranium-235	0.2 U	\	\	\	\	\	\
													Uranium-238	5.2 U	\	\	\	\	\	\
													Aluminum	7770	\	\	\	\	\	\
													Antimony	0.41 UJ	\	\	\	\	\	\
													Arsenic*	2.4	\	\	\	\	\	\
													Barium*	388	\	\	\	\	\	\
													Beryllium*	0.434	\	\	\	\	\	\
													Boron*	23.5	\	\	\	\	\	\
													Cadmium*	0.12	\	\	\	\	\	\
													Calcium	11000 C	\	\	\	\	\	\
													Chromium (hexavalent)*	1.9	\	\	\	\	\	\
													Chromium (total)*	14.5	\	\	\	\	\	\
													Cobalt*	6.3	\	\	\	\	\	\
													Copper*	18	\	\	\	\	\	\
													Iron	17900 C	\	\	\	\	\	\
													Lead*	38.4	\	\	\	\	\	\
													Magnesium	4900	\	\	\	\	\	\
													Manganese*	291	\	\	\	\	\	\
													Mercury	0.02 U	\	\	\	\	\	\
													Molybdenum*	0.51	\	\	\	\	\	\
													Nickel*	10.8	\	\	\	\	\	\
													Potassium	1020 C	\	\	\	\	\	\
													Selenium	0.37 U	\	\	\	\	\	\
													Silicon	1230 CJ	\	\	\	\	\	\
													Silver	0.14 U	\	\	\	\	\	\
													Sodium	404 C	\	\	\	\	\	\
													Vanadium*	44.1	\	\	\	\	\	\
													Zinc*	36.4	\	\	\	\	\	\
													Aroclor-1260*	0.032	\	\	\	\	\	\
													SVOAs	0.88 U	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list includes only the PCBs that were detected.							
100-F-39	Radioactive Process Sewer	100-FR-1	1.07 m (42 in.) diameter	1945-1965	This site consists of the river effluent pipelines (river lines) that extend from the 1904-F Outfall (116‑F-8) in the 100-F Area into the main channel of the Columbia River.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-F-40	Surface Impound-ment	100-FR-1	Not Documented	Not Documented	This site was a pair of impoundments and their associated ditches, which are no longer visible in the field. Samples collected in April 2001 determined the surface ponds held only uncontaminated animal waste resulting from pen cleaning.	Rejected	WSRF 2001-095	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-F-41	Product Piping	100-FR-1	Not Documented	1944-1964	The site encompasses the clean water pipelines for the 100-F Area, including underground pipelines used to transport raw, fire, export, and sanitary water from the river pump house to the water treatment facilities and to 100-F Area facilities and fire hydrants. Four additional pipelines were identified as being associated with the 100-F-41 Service Water Pipelines site. These pipelines are subsites of the 100-F-41 site. Based on the absence of potential chemical or radionuclide contamination associated with service water pipelines, the 100‑F‑41 site (including subsites 1 through 4) has been rejected from consideration as a waste site.	Rejected	WSRF 2006-064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-41:1 (subsite)	Product Piping	100-FR-1	10 cm (4 in.) diameter	1944-1964	This subsite consisted of a steel pipeline segment of unknown length approximately 0.6 m (2 ft) bgs. The segment was north of the 183-F Filter Building and south of the 182-F Reservoir.	Rejected	WSRF 2006-064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-F-41:2 (subsite)	Product Piping	100-FR-1	0.6 m (24 in.) diameter	1944-1964	This subsite consisted of a steel pipeline segment identified as approximately 1.8 m (6 ft) bgs. The pipe had no insulation or wrapping of any type, and was connected to the 190-F building foundation. The site was discovered during an excavation for confirmatory sampling at 100-F-26:4.	Rejected	WSRF 2006-064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-F-41:3 (subsite)	Product Piping	100-FR-1	10 cm (4 in.) diameter	1944-1964	This subsite consisted of a pipeline approximately 1.2 m (4 ft) bgs. The pipe was intact and had no insulation or wrapping. The pipeline was discovered during excavation at the 100-F-26:9 sanitary sewer located east of the south corner of the 1704-F building.	Rejected	WSRF 2006-064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-F-41:4 (subsite)	Product Piping	100-FR-1	10 cm (4 in.) diameter	1944-1964	This subsite consisted of a steel pipeline approximately 1 m (3 ft) bgs. It is located at the west end of the 115-F Building.	Rejected	WSRF 2006-064	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-F-42	Spillway	100-FR-1	61.0 m x 4.27 m x 2.90 m (200 ft x 14 ft x 9.5 ft)	1945-1965	The site consisted of a reinforced-concrete spillway and extended from the 116-F-8 Outfall to the Columbia River shoreline and into the river. The spillway was an alternate discharge point for the 116-F-8 Outfall Structure. It was planned to be used only if the 100-F-39 river effluent pipelines were blocked, damaged, or undergoing maintenance. There is no corroborated physical or historical evidence that the spillway was ever used. Sufficient evidence existed to warrant remedial action at the 100-F-42 waste site during remediation of the 116-F-8 waste site, and both waste sites were remediated and evaluated as a single unit.	Interim Closed Out	WSRF 2006-045 and Attachment to WSRF 2006-038.	See 116-F-8. This site was remediated along with 116-F-8 and the sample results are the same.												
100-F-43	Spillway	100-FR-1	38.10 m x 4.88 m x 2.44 m (125 ft x 16 ft x 8 ft)	1956-1976	The 100-F-43 spillway was constructed of reinforced-concrete, and extended from the 116-F-16 PNNL Outfall to the Columbia River shoreline and into the river. The waste would be animal sewage, 107-F Retention Basin water from fish studies, and low-level contamination resulting from various 100-F Experimental Animal Farm projects. Also, the waste would be potentially contaminated soil that may have been associated with spills or overflows from the spillway. Sufficient evidence existed to warrant remedial action at the 100-F-43 waste site during remediation of the 116-F-16 waste site, and both waste sites were remediated and evaluated as a single unit.	Interim Closed Out	WSRF 2006-046 and Attachment to WSRF 2006-039.	See 116-F-16. This site was remediated along with 116-F-16 and the sample results are the same.												
100-F-44:1 (subsite)	Process Sewer	100-FR-1	20 cm (0.6 ft) diameter	1959-1965	The 100-F-44:1 pipeline site was discovered during confirmatory sampling of the 100-F-26:1 pipelines site. The water carried by the 100-F-44:1 pipeline was essentially the same water carried by the 100-F-26:1 pipeline; therefore, no remedial action for the 100-F-44:1 subsite was needed. Evaluation of the confirmatory sample results for 100-F-26:1 satisfied the RAOs and the site was reclassified to No Action.	No Action	WSRF 2007-005	See 100-F-26:1 Service Area 5. The 100-F-26:1 Service Area 5 was sampled during remediation and because the water carried by the 100-F-44:1 pipeline is essentially the same as that carried by the 100-F-26:1 pipeline, no remedial action for the 100-F-44:1 subsite is required.										

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-44:2 (subsite)	Pipelines	100-FR-1	5 cm (2 in.) diameter	1949-1965	The 100-F-44:2 waste site is a steel pipeline that was discovered in a junction box during confirmatory sampling of the 100-F-26:4 pipeline. The 100-F-44:2 pipeline feeds into the 100-F-26:4 subsite process sewer pipeline from the 108-F Biology Laboratory at the junction box. A test pit was excavated to a depth of approximately 2 m (7 ft) where the pipeline was located. The pipe was cut open but no interior pipe sample could be taken because there was no sediment or scale inside the pipe. The results of confirmatory sampling illustrated that contaminant concentrations do not preclude any future uses (as bounded by the rural-residential scenario) and allow for unrestricted use of shallow zone soils. The results also demonstrate that contaminant concentrations were protective of groundwater and the Columbia River. Site contamination did not extend into the deep zone soils; therefore, no institutional controls to prevent uncontrolled drilling or excavation into the deep zone are required.	No Action	WSRF 2007-006	N/A	N/A	16-Jan-08 (Confirmatory sampling)	N/A	2	Americium-241	0274 U	\	\	\	\	\	\
													Cesium-137	0.029 U	\	\	\	\	\	\
													Cobalt-60	0.036 U	\	\	\	\	\	\
													Europium-152	0.084 U	\	\	\	\	\	\
													Europium-154	0.127 U	\	\	\	\	\	\
													Europium-155	0.104 U	\	\	\	\	\	\
													Potassium-40	14.1	\	\	\	\	\	\
													Radium-226	0.468	\	\	\	\	\	\
													Radium-228	0.68	\	\	\	\	\	\
													Thorium-228	0.73	\	\	\	\	\	\
													Thorium-232	0.68	\	\	\	\	\	\
													Uranium-235	0.154 U	\	\	\	\	\	\
													Uranium-238	4.39 U	\	\	\	\	\	\
													Aluminum	5190	\	\	\	\	\	\
													Antimony	0.29 U	\	\	\	\	\	\
													Arsenic*	2.2	\	\	\	\	\	\
													Barium*	51.8	\	\	\	\	\	\
													Beryllium*	0.14	\	\	\	\	\	\
													Boron*	1.8	\	\	\	\	\	\
													Cadmium*	0.07	\	\	\	\	\	\
													Calcium	3590 C	\	\	\	\	\	\
													Chromium (total)*	9.2	\	\	\	\	\	\
													Cobalt*	4.8	\	\	\	\	\	\
													Cooper*	14.8	\	\	\	\	\	\
													Chromium (hexavalent)*	0.28	\	\	\	\	\	\
													Iron	13000	\	\	\	\	\	\
													Lead*	3.2 C	\	\	\	\	\	\
													Magnesium	3630	\	\	\	\	\	\
													Manganese*	235	\	\	\	\	\	\
													Mercury*	0.02	\	\	\	\	\	\
													Molybdenum	0.29 U	\	\	\	\	\	\
													Nickel*	10.6	\	\	\	\	\	\
													Potassium	614	\	\	\	\	\	\
													Selenium	0.57 U	\	\	\	\	\	\
													Silicon	2900	\	\	\	\	\	\
													Silver	0.1 U	\	\	\	\	\	\
													Sodium	149 C	\	\	\	\	\	\
													Vanadium*	31.6	\	\	\	\	\	\
													Zinc	90.7 C	\	\	\	\	\	\
													PCBs	0.013 U	\	\	\	\	\	\
													Pesticides	0.0013 UD	\	\	\	\	\	\
													TPH	0.134 UJ	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and were subsequently considered as COPCs.							
100-F-44:3 (subsite)	Process Sewer	100-FR-1	0.3 m (12 in.) diameter	1944-1965	The 100-F-44:3 subsite was identified as a steel or cast iron pipeline by visual observation during confirmatory sampling within the manhole at 100 F-26:10. However, it was determined through the excavation of the 100-F-26:10 pipelines in 2007 that the visual observation of the 100-F-44:3 subsite was erroneous. The entire manhole was removed during the 100-F-26:10 remediation, along with a quantity of the soil beneath and surrounding the manhole. No other pipeline was encountered during the excavation. There was no evidence to support the existence of the 100-F-44:3 pipeline and was reclassified as rejected.	Rejected	WSRF 2007-010	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-44:4 (subsite)	Process Sewer	100-FR-1	5 cm (2 in.) diameter 6 m (20 ft) length	Not Documented	The 100-F-44:4 subsite consisted of a steel pipe discovered during trenching to locate the 118-F-4 Silica Gel Pit. The pipe is approximately 0.9 m (3 ft) below grade. The area is believed to have remained essentially unchanged from the time of the reactor's construction in 1944 until the demolition of nearby structures (i.e., 132-F-3 [115-F Gas Recirculation Facility]) in 1984. The visual evidence indicates this pipe is a piece of electrical conduit debris and not a process pipeline or sewer pipeline. The pipe was cut and a sample of soil was taken from inside the pipe.	No Action	WSRF 2008-030	N/A	N/A	2/25/2008 (Confirmatory sampling from sediment in the pipe)	N/A	0.9 (pipe depth)	Americium-241	0.32 U	\	\	\	\	\	\
													Cesium-137*	4.46	\	\	\	\	\	\
													Cobalt-60	0.042 U	\	\	\	\	\	\
													Europium-152	0.13 U	\	\	\	\	\	\
													Europium-154	0.129 U	\	\	\	\	\	\
													Europium-155	0.102 U	\	\	\	\	\	\
													Gross alpha	11.2	\	\	\	\	\	\
													Gross beta	22.3	\	\	\	\	\	\
													Nickel-63	3.36 U	\	\	\	\	\	\
													Plutonium-238	0.336 U	\	\	\	\	\	\
													Plutonium-239/240	0.268 U	\	\	\	\	\	\
													Potassium-40	10.6	\	\	\	\	\	\
													Radium-226	0.689	\	\	\	\	\	\
													Radium-228	0.818	\	\	\	\	\	\
													Technetium-99	0.561 U	\	\	\	\	\	\
													Thorium-228	0.763	\	\	\	\	\	\
													Thorium-232	0.818	\	\	\	\	\	\
													Strontium-90	0.286 U	\	\	\	\	\	\
													Uranium-233/234*	0.758	\	\	\	\	\	\
													Uranium-235	0.369 U	\	\	\	\	\	\
													Uranium-238*	0.678	\	\	\	\	\	\
													Aluminum	9870 C	\	\	\	\	\	\
													Antimony	0.82 UJ	\	\	\	\	\	\
													Arsenic*	4.9	\	\	\	\	\	\
													Barium *	383	\	\	\	\	\	\
													Beryllium*	0.54	\	\	\	\	\	\
													Boron*	48.4	\	\	\	\	\	\
													Cadmium*	0.58	\	\	\	\	\	\
													Calcium	9210 C	\	\	\	\	\	\
													Chromium (total)*	18.3	\	\	\	\	\	\
													Chromium (hexavalent)	0.35 U	\	\	\	\	\	\
													Cobalt*	7.5	\	\	\	\	\	\
													Copper*	24.2	\	\	\	\	\	\
													Iron	47900 C	\	\	\	\	\	\
													Lead*	18.8	\	\	\	\	\	\
													Magnesium	4470 J	\	\	\	\	\	\
													Manganese*	440 C	\	\	\	\	\	\
													Mercury	0.009 UR	\	\	\	\	\	\
													Molybdenum*	3.1	\	\	\	\	\	\
													Nickel*	19.8	\	\	\	\	\	\
													Potassium	988 C	\	\	\	\	\	\
													Selenium	1.6 U	\	\	\	\	\	\
													Silicon	694 J	\	\	\	\	\	\
													Silver*	1.3 J	\	\	\	\	\	\
													Sodium	414 J	\	\	\	\	\	\
													Uranium*	1.1	\	\	\	\	\	\
													Vanadium*	46.5	\	\	\	\	\	\
													Zinc*	42.4 C	\	\	\	\	\	\
													TPH	133 UJ	\	\	\	\	\	\
													PCBs	0.010 UJ	\	\	\	\	\	\
													VOAs	0.009 U	\	\	\	\	\	\
													Gamma-Chlordane*	0.0019	\	\	\	\	\	\
													2,4-dichlorophenoxyacetic*	0.042	\	\	\	\	\	\
													Beta-BHC*	0.001	\	\	\	\	\	\
													2-Methylnaphthalene*	0.032	\	\	\	\	\	\
													Naphthalene*	0.03	\	\	\	\	\	\
													Phenanthrene*	0.019	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list includes only the pesticides and SVOAs that were detected.							

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-44:5 (subsite)	Process Sewer	100-FR-1	Various pipe sizes ~170 m (560 ft) total length	1945-1965	The 100-F-44:5 subsite consisted of a network of reinforced concrete and steel pipelines that received process flow from the 190-F Pump House and discharged to a 1.07 m (42 in.) diameter pipeline associated with the 100-F-19:3 Reactor cooling water effluent pipelines that have been remediated.	No Action	WSRF 2008-016	N/A	N/A	17-Jan-08 (Confirmatory Sampling)	N/A	4.0 (sample depth)	Americium-241	0.047 U	\	\	\	\	\	\
													Cesium-137	0.026 U	\	\	\	\	\	\
													Cobalt-60	0.031 U	\	\	\	\	\	\
													Europium-152	0.07 U	\	\	\	\	\	\
													Europium-154	0.108 U	\	\	\	\	\	\
													Europium-155	0.072 U	\	\	\	\	\	\
													Gross alpha	16.8	\	\	\	\	\	\
													Gross beta	19.9	\	\	\	\	\	\
													Nickel-63	3.33 U	\	\	\	\	\	\
													Potassium-40	15.5	\	\	\	\	\	\
													Radium-226	0.446	\	\	\	\	\	\
													Radium-228	0.696	\	\	\	\	\	\
													Thorium-228	0.677	\	\	\	\	\	\
													Thorium-232	0.696	\	\	\	\	\	\
													Strontium-90	0.368 U	\	\	\	\	\	\
													Uranium-235	0.116 U	\	\	\	\	\	\
													Uranium-238	3.44 U	\	\	\	\	\	\
													Aluminum	4860	\	\	\	\	\	\
													Antimony	0.9 U	\	\	\	\	\	\
													Arsenic*	2.3	\	\	\	\	\	\
													Barium *	46.4	\	\	\	\	\	\
													Beryllium*	0.34	\	\	\	\	\	\
													Boron*	2.1	\	\	\	\	\	\
													Cadmium	0.15 U	\	\	\	\	\	\
													Calcium	4990 C	\	\	\	\	\	\
													Chromium (total)*	7.9	\	\	\	\	\	\
													Cobalt*	7.2	\	\	\	\	\	\
													Copper*	12.5	\	\	\	\	\	\
													Chromium (hexavalent)	0.22 U	\	\	\	\	\	\
													Iron	12900	\	\	\	\	\	\
													Lead*	3.1	\	\	\	\	\	\
													Magnesium	3490	\	\	\	\	\	\
													Manganese*	250	\	\	\	\	\	\
													Mercury	0.009 U	\	\	\	\	\	\
													Molybdenum	0.9 U	\	\	\	\	\	\
													Nickel*	11.2	\	\	\	\	\	\
													Potassium	871	\	\	\	\	\	\
													Selenium	1.8 U	\	\	\	\	\	\
													Silicon	2900	\	\	\	\	\	\
													Silver	0.3 U	\	\	\	\	\	\
													Sodium	237 C	\	\	\	\	\	\
													Vanadium*	30.6	\	\	\	\	\	\
													Zinc*	29.1	\	\	\	\	\	\
													PCBs	0.014 U	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs.							
100-F-44:6 (subsite)	Process Sewer	100-FR-1	76 cm (30 in.) diameter 908 m (2,979 ft) length	1944-1960	The 100-F-44:6 pipe entered the foundation of the 189-F Refrigeration Building and was discovered during excavation of a test pit for confirmatory sampling at 100-F-26:4. The pipe had been identified as a raw water pipeline that supplied water to the condenser units in the 189-F Refrigeration Building and also supplied backup raw water to the 182-F and 183-F facilities. The subsite has been reclassified as Rejected based on the absence of potential chemical or radionuclide contamination associated with service water pipelines.	Rejected	WSRF 2007-007	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-F-44:7 (subsite)	Process Sewer	100-FR-1	10 cm (4 in.) diameter 27 m (88 ft) length	1945-1983	This subsite, originally thought to be one pipeline, actually was comprised of two 10 cm (3 in.) cast-iron pipelines each 27 m (89 ft) in length. The pipelines were used as cleanout and emergency blowdown pipelines for two heating system boilers located in the 1717-F Maintenance Building. Potential contamination would have been limited to nonregulated concentrations of chemicals used to produce potable water. Based on an absence of other potential chemical or radionuclide contamination, the subsite was reclassified as Rejected.	Rejected	WSRF-2007-012	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-F-44:8 (subsite)	Process Sewer	100-FR-1	3.8 cm (1.5 in.) diameter 72 m (236 ft) length	Not Documented	The site consisted of two 3.8 cm (1.5 in.) black steel, 36 m (118 ft) long pipelines including fuel oil supply and return pipelines that serviced the three underground fuel oil tanks (WIDS site 100-F-32) and the 1717-F building. Evidence was found that the tanks were offered for sale and photographs showed a disturbance where the tanks were previously located. It is unknown if these pipelines were removed as part of the tank removal.	Interim Closed Out	WDRF-2011-043	27-Oct-10	19-Jul-11	14-Apr-11, 13-Jun-11, and 19-Jul-11	668	1.5	Aluminum	7790 X	\	\	\	\	6390	N/A
													Antimony*	0.36	\	\	\	\	0.39 U	\
													Arsenic*	3.7	\	2.5	\	\	2.7	2.4
													Barium*	270 XM	\	120	\	\	77.3	68.5
													Beryllium*	0.21	\	0.14	\	\	0.22	\
													Boron*	22.7 M	\	6.8	\	\	1.4 B	\
													Cadmium*	0.12 B	\	0.098	\	\	0.12 B	0.098
													Calcium	9890 XM	\	\	\	\	3970	\
													Chromium*	14.3	\	10.7	\	\	9.4 X	8.3
													Cobalt*	7.9	\	7	\	\	7.8 X	7.3
													Copper*	22.7	\	16.7	\	\	21.8	13.2

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Iron	22500 X	\	\	\	\	20600	\
													Lead*	8.5	\	6	\	\	8.4	5.9
													Magnesium	5820	\	\	\	\	4460	\
													Manganese*	358 X	\	287	\	\	306 X	268
													Mercury*	0.34	\	0.083	\	\	0.11	0.13
													Molybdenum*	0.66 BM	\	\	\	\	0.27 U	\
													Nickel*	15.7	\	11.7	\	\	12.3 X	10.3
													Potassium	1570	\	\	\	\	1440	\
													Selenium	1.0 U	\	\	\	\	0.88 U	\
													Silicon	401 X	\	\	\	\	405 X	\
													Silver	0.19 U	\	\	\	\	0.16 U	\
													Sodium	643 M	\	\	\	\	462	\
													Vanadium*	54.9	\	49.5	\	\	54.2 X	50.3
													Zinc*	64.2 X	\	47.2	\	\	64.2 X	40.2
													Anthracene*	0.092 X	\	\	\	\	0.17 J	\
													Benzo(a)anthracene*	0.4 X	\	\	\	\	0.69	\
													Benzo(a)pyrene*	0.34	\	0.031	\	\	0.58	\
													Benzo(b)fluoranthene*	0.25	\	\	\	\	0.57 N	\
													Benzo(ghi)perylene*	0.058 X	\	\	\	\	0.25 X	\
													Benzo(k) fluoranthene*	0.12	\	\	\	\	0.28	\
													Chrysene*	0.33	\	\	\	\	0.65	\
													Dibenz(a,h)anthracene*	\	\	\	\	\	0.18 X	\
													Fluoranthene*	0.72	\	\	\	\	1.2 N	\
													Fluorene	0.06	\	\	\	\	0.059 J	\
													Indeno(1,2,3-cd)pyrene*	0.16	\	\	\	\	0.35	\
													Phenanthrene*	0.29	\	\	\	\	0.55 J	\
													Pyrene*	0.87	\	\	\	\	1.5 N	\
													Aroclor-1254*	0.63 PD	\	0.097	\	\	0.06	0.071
													Aroclor-1260*	0.79 D	\	0.215	\	\	0.06	0.024
													Methylene chloride*	0.0038 JB	\	0.0029	\	\	0.0052 JB	0.0031
													TPH-Diesel*	90	\	158	\	\	25 B	94.0
													TPH-Diesel EXT*	200	\	100	\	\	110 B	59.4
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list includes only the PAHs, PCBs, and VOAs that were detected.							
100-F-44:9 (subsite)	Process Sewer	100-FR-1	46 cm (18 in.) diameter 42.5 m (140 ft) length	Not Documented	The segment was a steel process sewer pipeline that conveyed effluent from the east side of the 105-F Reactor Building and appeared to discharge to a 1.07 m (42 in.) diameter pipeline associated with 100-F-19:2.	Interim Closed Out	WSRF 2011-061	3-Nov-10	5-Jan-11	03-May-11 and 04-May-11	941	3	Americium-241	0.298 U	\	\	\	\	0.299 U	\
													Carbon-14	0.455 U	\	\	\	\	0.451 U	\
													Cesium-137*	0.0463 U	\	\	\	\	0.482	0.158
													Cobalt-60	0.0387 U	\	\	\	\	0.045 U	\
													Europium-152*	0.1 U	\	\	\	\	1.07	0.32
													Europium-154	0.136 U	\	\	\	\	0.133 U	\
													Europium-155	0.101 U	\	\	\	\	0.104 U	\
													Nickel-63	17.3 U	\	\	\	\	14.5 U	\
													Plutonium-238	0.149 U	\	\	\	\	0.148 U	\
													Plutonium-239/240	0.179 U	\	\	\	\	0.169 U	\
													Total beta radiostrontium	0.211	\	0.092	\	\	0.179 U	\
													Tritium*	0.0152 J	\	0.007	\	\	0.0898	0.0209
													Aluminum	9060	\	\	\	\	8780	\
													Antimony*	0.51 BJ	\	\	\	\	0.38 U	\
													Arsenic*	9.8	\	4.7	\	\	2.3	2.1
													Barium*	71.6	\	60.4	\	\	72.3	65.7
													Beryllium*	0.22	\	0.17	\	\	0.15 B	0.14
													Boron*	2.1	\	1.6	\	\	3.1	1.9
													Cadmium*	0.12 B	\	0.092	\	\	0.091 B	0.086
													Calcium	13700	\	\	\	\	6260	\
													Chromium (total)*	12	\	11.1	\	\	13.9	12.4
													Chromium (hexavalent)*	0.155 U	\	\	\	\	0.178	\
													Cobalt*	7.0 X	\	6.6	\	\	8.1 X	7.3
													Copper*	21.4	\	16.4	\	\	15.7	15.1
													Iron	19900	\	\	\	\	20100	\
													Lead*	10.1	\	6.7	\	\	5.5	4.8
													Magnesium	4480	\	\	\	\	4380	\
													Manganese*	316	\	291	\	\	320	303
													Mercury*	0.088	\	0.029	\	\	0.084	0.028
													Molybdenum*	0.66 B	\	\	\	\	0.45 B	\
													Nickel*	12.5	\	10.9	\	\	11.9	10.9
													Potassium	1490	\	\	\	\	1430	\
													Selenium*	0.86 U	\	\	\	\	0.93	\
													Silicon	322 J	\	\	\	\	221	\
													Silver	0.16 U	\	\	\	\	0.43	\
													Sodium	293	\	\	\	\	253	\
													Vanadium*	45.6	\	43.1	\	\	48.8	46.7
													Zinc*	70.4 XNJ	\	54	\	\	43.3	41
													Aroclor-1260*	0.066	\	0.032	\	\	0.051	0.022

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list includes only the PCBs that were detected.							
100-F-44:10 (subsite)	Process Sewer	100-FR-1	20 cm (8 in.) diameter	1945-1976	The subsite consisted of two sewer pipeline segments exiting the 141-C Building. In August 2005, during the 141-C Building remediation, exploratory trenches were dug to confirm that the sewer lines formerly servicing the 141-C Building had been removed during previous D&D activities. No sewer lines were located by these excavations and field instrumentation did not detect any beta/gamma or alpha activity above background levels. There was no evidence to support the existence of the pipe segments in the vicinity of the 141‑C Building. Therefore, the subsite has been reclassified to rejected from consideration as a waste site.	Rejected	WSRF 2007-011	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-F-45	Radioactive Process Sewer	100-FR-1	1.07 m (42 in.) diameter	1945-1946	The site consists of a piece of pipeline that was buried in the river bank. Based on information that was accidentally discovered, it is believed to be part of the pipeline that floated loose and broke off the 100-F Area river effluent pipeline. Chemically and radiologically contaminated liquids were routinely discharged through these pipelines. Contaminated residue may have remained in the pipeline after its burial.	Interim Closed Out	WSRF 2011-084	14-Mar-11	21-Mar-11	26-Apr-11 and 28-Jun-11	289	N/A	Americium-241	0.32 U	\	\	\	\	0.289 U	\
													Cesium-137	3.51	\	1.44	\	\	0.119	0.0716
													Cobalt-60	0.0472 U	\	\	\	\	0.0508 U	\
													Europium-152	0.324	\	0.0765	\	\	0.108 U	\
													Europium-154	0.152 U	\	\	\	\	0.151 U	\
													Europium-155	0.132 U	\	\	\	\	0.117 U	\
													Aluminum	8230	\	\	\	\	7410	\
													Antimony	0.44 UJ	\	\	\	\	0.48 U	\
													Arsenic*	3	\	2.4	\	\	2.5	2.4
													Barium	78.7	\	72	\	\	96.4	80.4
													Beryllium*	0.12 B	\	0.11	\	\	0.18 B	0.16
													Boron*	1.7 B	\	\	\	\	4.4	3.1
													Cadmium	0.5	\	0.23	\	\	0.12 B	0.092
													Calcium	3920 X	\	\	\	\	6210	\
													Chromium (total)	48.4	\	36	\	\	17.3	11.6
													Cobalt	6.6 X	\	5.9	\	\	6.3 X	6.1
													Copper*	18	\	17.2	\	\	13.3	12.1
													Chromium (hexavalent)	1.28 J	\	0.85	\	\	0.274	\
													Iron	18600	\	\	\	\	16900	\
													Lead*	17.7	\	7.4	\	\	6.4	5.6
													Magnesium	4650 X	\	\	\	\	4270	\
													Manganese*	321	\	275	\	\	266	253
													Mercury	1.1	\	0.27	\	\	0.024	0.015
													Molybdenum	0.72 B	\	\	\	\	0.31 B	\
													Nickel	12.2 X	\	11.2	\	\	10.4	10
													Potassium	1410	\	\	\	\	1440	\
													Selenium	0.99 U	\	\	\	\	1.1 U	\
													Silicon	197 J	\	\	\	\	463	\
													Silver	0.18 B	\	\	\	\	0.20 U	\
													Sodium	244	\	\	\	\	300	\
													Vanadium*	46.8	\	38	\	\	44.4	40.2
													Zinc	105	\	53.5	\	\	41	36.3
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs.							

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-46	French Drain	100-FR-1	1.0 m x 3.05 m (3.28 ft x 10 ft)	1944-1965	The 100-F-46 French drain was located near the 105-F Reactor between the inlet and exhaust air ducts/tunnels associated with the 117-F Filter Building (132-F-5 waste site). Both the 100-F-46 French drain and the condensate pipeline are presumed to have been removed during D&D of the 117-F Filter Building and associated air tunnels in 1983. These structures were removed to a depth of 1 m (3 ft) below grade, and backfilled to grade. Uncertainty remained as to the disposition of the French drain and condensate pipe within the 100-F-46 waste site; therefore, a work instruction was prepared for confirmatory sampling. A test pit was excavated to approximately 4.5 m (15 ft) depth, with no indication of either the French drain or the associated cast iron condensate pipeline. Confirmatory samples were collected from the excavator bucket of material that was taken from the bottom of the test pit. The 100-F-46 waste site was then backfilled.	No Action	WSRF 2008-021	N/A	N/A	29-Nov-07 (Confirmatory Sampling)	N/A	4.5	Americium-241	0.344 U	\	\	\	\	\	\
													Carbon-14	3.4 U	\	\	\	\	\	\
													Cesium-137	0.035 U	\	\	\	\	\	\
													Cobalt-60	0.039 U	\	\	\	\	\	\
													Europium-152	0.095 U	\	\	\	\	\	\
													Europium-154	0.139 U	\	\	\	\	\	\
													Europium-155	0.11 U	\	\	\	\	\	\
													Gross alpha	15.7	\	\	\	\	\	\
													Gross beta	20.9	\	\	\	\	\	\
													Plutonium-238	0.291 U	\	\	\	\	\	\
													Plutonium-239/240	0.274 U	\	\	\	\	\	\
													Potassium-40	15.7	\	\	\	\	\	\
													Radium-226	0.526	\	\	\	\	\	\
													Radium-228	0.886	\	\	\	\	\	\
													Thorium-228	0.826	\	\	\	\	\	\
													Thorium-232	0.886	\	\	\	\	\	\
													Tritium*	33.8	\	\	\	\	\	\
													Uranium-235	0.17 U	\	\	\	\	\	\
													Uranium-238	4.9 U	\	\	\	\	\	\
													Aluminum	5820	\	\	\	\	\	\
													Antimony*	1.2	\	\	\	\	\	\
													Arsenic*	1.9	\	\	\	\	\	\
													Barium*	57.7 C	\	\	\	\	\	\
													Beryllium*	0.51	\	\	\	\	\	\
													Boron*	3.9	\	\	\	\	\	\
													Cadmium	0.14 U	\	\	\	\	\	\
													Calcium	6550C	\	\	\	\	\	\
													Chromium (total)*	8.5	\	\	\	\	\	\
													Chromium (hexavalent)*	0.28	\	\	\	\	\	\
													Cobalt*	5.2	\	\	\	\	\	\
													Copper*	12	\	\	\	\	\	\
													Iron	15200 C	\	\	\	\	\	\
													Lead*	5.5 C	\	\	\	\	\	\
													Magnesium	4130 C	\	\	\	\	\	\
													Manganese*	245	\	\	\	\	\	\
													Mercury	0.01 U	\	\	\	\	\	\
													Molybdenum*	0.86	\	\	\	\	\	\
													Nickel*	9	\	\	\	\	\	\
													Potassium	907	\	\	\	\	\	\
													Selenium	1.7 U	\	\	\	\	\	\
													Silicon	2470	\	\	\	\	\	\
													Silver*	0.38	\	\	\	\	\	\
													Sodium	211 C	\	\	\	\	\	\
													Vanadium*	34.2	\	\	\	\	\	\
													Zinc*	30.6	\	\	\	\	\	\
													TPH	142 U	\	\	\	\	\	\
													Aroclor-1260*	0.0048	\	\	\	\	\	\
													Benzo(a)anthracene*	0.0039	\	\	\	\	\	\
													Benzo(a)pyrene*	0.0029 J	\	\	\	\	\	\
													Benzo(b)fluoranthene*	0.003 J	\	\	\	\	\	\
													Benzo(k)fluoranthene*	0.0076	\	\	\	\	\	\
													Benzo(ghi)perylene*	0.0042	\	\	\	\	\	\
													Indeno(1,2,3-cd)pyrene*	0.01	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list only includes PCBs and PAHs that were detected.							
100-F-47	Electrical Substation	100-FR-1	137.2 m x 92.4 m (450 ft x 303 ft) substation 24.40 m x 9.10 m (80 ft x 30 ft) switch house 21.9 m x 3.4 m (71.8 ft x 11.2 ft) cable pit	1945-1965	The site consisted of any contaminated soil and remaining underground equipment associated with the former 151-F Substation.	Interim Closed Out	WSRF 2011-086	20-Oct-10	27-Jun-11	10-May-11 and 28-Jun-11	29,024	4.35	Aluminum	8730	\	\	\	\	\	\
													Antimony*	0.39 B	\	\	\	\	\	\
													Arsenic*	7.1	\	3.8	\	\	\	\
													Barium*	63.5	\	52.9	\	\	\	\
													Beryllium*	0.13 B	\	0.093	\	\	\	\
													Boron*	2.4	\	\	\	\	\	\
													Cadmium*	0.13 B	\	0.093	\	\	\	\
													Calcium	6110	\	\	\	\	\	\
													Chromium (total)*	11.9	\	10.7	\	\	\	\
													Cobalt*	6.7	\	6.1	\	\	\	\
													Copper*	15.4 X	\	13.9	\	\	\	\
													Iron	17600	\	\	\	\	\	\
													Lead*	16.1	\	12	\	\	\	\
													Magnesium	4240	\	\	\	\	\	\
													Manganese*	289	\	258	\	\	\	\
													Mercury*	0.97	\	0.22	\	\	\	\
													Molybdenum*	0.45 B	\	\	\	\	\	\
													Nickel*	11.6	\	11	\	\	\	\

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Potassium	1320	\	\	\	\	\	\
													Selenium	0.94 U	\	\	\	\	\	\
													Silicon	482	\	\	\	\	\	\
													Silver	0.17 U	\	\	\	\	\	\
													Sodium	261	\	\	\	\	\	\
													Vanadium*	40.5	\	37.1	\	\	\	\
													Zinc*	52.9	\	37.9	\	\	\	\
													Aroclor-1254*	0.0092 JP	\	\	\	\	\	\
													Aroclor-1260*	0.058	\	\	\	\	\	\
													Benzo(a)anthracene*	0.14 J	\	0.054	\	\	\	\
													Benzo(a)pyrene*	0.11 J	\	0.071	\	\	\	\
													Benzo(b)fluoranthene*	0.21 JK	\	0.158	\	\	\	\
													Benzo(ghi)perylene*	0.059 J	\	0.029	\	\	\	\
													Bis(2-ethylhexyl) phthalate*	0.11 JB	\	0.099	\	\	\	\
													Chrysene*	0.15 J	\	0.06	\	\	\	\
													Fluoranthene*	0.23 J	\	0.086	\	\	\	\
													Indeno(1,2,3-cd)pyrene*	0.047 J	\	\	\	\	\	\
													Phenanthrene*	0.056 J	\	0.026	\	\	\	\
													Pyrene*	0.19 J	\	0.073	\	\	\	\
													TPH - Diesel*	65	\	112	\	\	\	\
													TPH - Diesel EXT*	71	\	96	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list only includes PCBs and PAHs that were detected.							
100-F-48	Dumping Area	100-FR-1	153.0 m x 86.0 m (502 ft x 282 ft)	Not Documented	The coal pit debris is located immediately north of the 184-F Power House site (removed). The exact content of potential waste located in the ash pit is unknown, but is suspected to be demolition and inert debris from decommissioning and demolition of site facilities. Asbestos-containing materials may be present at the site.	Interim Closed Out	WSRF 2011-093	21-Sep-10	11-Jan-11	06-Jul-11 and 07-Jul-11	32,377	3.5	Thorium-228	0.609 J	\	\	\	\	\	\
													Thorium-230	0.626	\	\	\	\	\	\
													Thorium-232	0.674 J	\	\	\	\	\	\
													Uranium-234	0.425	\	\	\	\	\	\
													Uranium-235	0.144 UJ	\	\	\	\	\	\
													Uranium-238	0.223	\	\	\	\	\	\
													Aluminum	8930	\	\	\	\	8760	\
													Antimony	0.52 JB	\	\	\	\	0.44 U	\
													Arsenic*	3.8	\	\	\	\	6	3.3
													Barium	128	\	\	\	\	68.6	63.6
													Beryllium	0.23 B	\	\	\	\	0.24	0.22
													Boron*	10.6	\	\	\	\	1.4 B	1.2
													Cadmium	0.21 B	\	\	\	\	0.1 B	0.083
													Calcium	9320	\	\	\	\	7270	\
													Chromium	14.3	\	\	\	\	11.9	11
													Cobalt	7.0 X	\	\	\	\	5.9 X	5.7
													Copper*	20.1	\	\	\	\	13.6	12.6
													Iron	16500	\	\	\	\	17700	\
													Lead*	23.2	\	\	\	\	17	7.2
													Magnesium	4940	\	\	\	\	4480	\
													Manganese*	323	\	\	\	\	280	259
													Mercury	0.55	\	\	\	\	0.0089 B	\
													Molybdenum	0.25 B	\	\	\	\	0.44 B	\
													Nickel	13.3	\	\	\	\	11.5	10.8
													Potassium	1590	\	\	\	\	1440	\
													Selenium	0.85 U	\	\	\	\	1 U	\
													Silicon	432	\	\	\	\	566 X	\
													Silver	0.16 U	\	\	\	\	0.19 U	\
													Sodium	306	\	\	\	\	253	\
													Vanadium*	41.8	\	\	\	\	39	38
													Zinc*	72.7	\	\	\	\	33.8	31.5
													Aroclor-1254*	0.0051 J	\	\	\	\	0.0034 U	\
													Aroclor-1260*	0.093	\	\	\	\	0.12	0.078
													4,4'-DDT	0.0053	\	\	\	\	0.00089 JX	\
													Dieldrin	0.0023 JD	\	\	\	\	0.00027 U	\
													Endosulfan II	0.00056 JX	\	\	\	\	0.00036 U	\
													Endosulfan sulfate	0.0013 JX	\	\	\	\	0.00035 U	\
													Heptachlor epoxide	0.004 XD	\	\	\	\	0.00054 U	\
													Methoxychlor	0.013 JXD	\	\	\	\	0.0012 JX	\
													1,1-Dichloroethene	0.0013 J	\	\	\	\	0.0045 J	\
													2-Butanone	0.022	\	\	\	\	0.0085 J	\
													Acetone	0.17	\	\	\	\	0.039	\
													Ethylbenzene	0.0023 J	\	\	\	\	0.0021 J	0.0014
													Methylene chloride*	0.0044 J	\	\	\	\	0.0037 JB	\
													Toluene	0.0012 U	\	\	\	\	0.001 J	\
													Xylenes (total)	0.0028 J	\	\	\	\	0.0026 J	\
													2-Methylnaphthalene*	0.024 J	\	\	\	\	0.025 U	\
													Chrysene*	0.052 J	\	\	\	\	0.035 U	\
													Benzo(b)fluoranthene*	0.026 U	\	\	\	\	0.034 U	\
													Bis(2-ethylhexyl) phthalate*	0.088 JB	\	\	\	\	0.1 JB	\

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Di-n-butylphthalate*	0.032 J	\	\	\	\	0.038 U	\
													Fluoranthene*	0.036 U	\	\	\	\	0.047 U	\
													Phenanthrene*	0.026 J	\	\	\	\	0.022 U	\
													Phenol	0.063 J	\	\	\	\	0.038 J	\
													Pyrene*	0.036 J	\	\	\	\	0.016 U	\
													TPH - Diesel Range	22 B	\	\	\	\	6	\
													TPH - Diesel Range EXT	140	\	\	\	\	22	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list only includes the PCBs, PAHs, Pesticides, and VOAs that were detected.							
100-F-49	Foundation	100-FR-1	16.31 m x 14.63 m x 5.49 m (53.5 ft x 48.0 ft x 18.0 ft)	1945-1977	This site is the remaining components of the 1716-F Maintenance Garage, including the foundation, lubrication pit, and contaminated drain(s). At a minimum, contaminants of concern would include PCBs and TPH.	Interim Closed Out	WSRF 2011-089	11-Jan-11	12-Apr-11	20-Jul-11	5,762	2.7	Aluminum	7450	\	\	\	\	7980	\
													Antimony*	0.78 J	\	0.62	\	\	0.084 J	\
													Arsenic*	2.9	\	2.3	\	\	2.8	\
													Barium*	114	\	74.5	\	\	105	\
													Beryllium*	0.076 BM	\	\	\	\	0.034 B	\
													Boron*	3.1	\	1.8	\	\	4.1	\
													Cadmium*	0.14 B	\	0.11	\	\	0.15 B	\
													Calcium	9920	\	\	\	\	7590	\
													Chromium*	12.7	\	11.2	\	\	22.1	\
													Cobalt*	5.8 X	\	5.3	\	\	6.4 X	\
													Copper*	15.3	\	13.2	\	\	13.9	\
													Iron	17400	\	\	\	\	18700	\
													Lead*	13.2	\	6.8	\	\	13.9	\
													Magnesium	4790	\	\	\	\	4300	\
													Manganese*	276	\	250	\	\	326	\
													Mercury*	0.018	\	0.014	\	\	0.016	\
													Molybdenum*	0.40 B	\	\	\	\	0.25 U	\
													Nickel*	11.5 X	\	10.7	\	\	16.5 X	\
													Potassium	1240	\	\	\	\	1460	\
													Selenium*	1.2	\	\	\	\	0.83 U	\
													Silicon	483 NJ	\	\	\	\	459 J	\
													Silver	0.16 U	\	\	\	\	0.15 U	\
													Sodium	571	\	\	\	\	285 CUJ	\
													Vanadium*	42.7	\	41.2	\	\	45.7	\
													Zinc*	51.7 X	\	39.6	\	\	40 X	\
													TPH Diesel Range*	27 BN	\	\	\	\	23 B	\
													TPH Diesel Range Ext*	65 BNJ	\	25.8	\	\	53 BJ	\
													Anthracene*	0.0086 J	\	\	\	\	0.003 U	\
													Benzo(a)anthracene*	0.02 J	\	\	\	\	0.0032 U	\
													Benzo(a)pyrene*	0.037	\	\	\	\	0.0097 JX	\
													Benzo(b)fluoranthene*	0.043	\	\	\	\	0.016 X	\
													Benzo(k)fluoranthene*	0.02	\	\	\	\	0.0049 JX	\
													Chrysene*	0.036 J	\	\	\	\	0.01 J	\
													Fluoranthene*	0.077	\	\	\	\	0.021 J	\
													Indeno(1,2,3-cd)pyrene*	0.026 J	\	\	\	\	0.012 U	\
													Phenanthrene*	0.038 J	\	\	\	\	0.012 U	\
													Pyrene*	0.067	\	\	\	\	0.019 J	\
													Aroclor-1254*	0.02	\	\	\	\	0.0026 U	\
													Aroclor-1260*	0.0096 JP	\	\	\	\	0.0026 U	\
													alpha-Chlordane*	0.0097 X	\	\	\	\	0.008 JX	\
													4,4'-DDE*	0.00081 J	\	\	\	\	0.00024 U	\
													4,4'-DDT*	0.0006 JX	\	\	\	\	0.00059 U	\
													Dieldrin*	0.0031	\	\	\	\	0.00021 U	\
													Endosulfan sulfate*	0.00051 J	\	\	\	\	0.00027 U	\
													gamma-Chlordane*	0.011	\	\	\	\	0.001 JY	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list only includes PCBs, PAHs, and SVOAs that were detected.							

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-50	French Drain	100-FR-2	Basin: 1.0 m (3 ft) diameter Pipe: 36 cm (14 in.) diameter	Not Documented	This site consisted of a circular concrete basin and a steel culvert (pipe) located southeast of the 116-F-6 Disposal Trench between two railroad grades. The basin collected surface water runoff that drained to a steel diversion culvert under one of the railroad grades and flowed down an embankment to the flat terrain below. The purpose of the French drain and drain pipe was unknown.	No Action	WSRF 2007-001	N/A	N/A	19-Nov-07 (Confirmatory sampling)	N/A	0.5	Americium-241	0.324 U	\	\	\	\	\	\
													Cesium-137*	0.912	\	\	\	\	\	\
													Cobalt-60	0.062 U	\	\	\	\	\	\
													Europium-152*	0.365	\	\	\	\	\	\
													Europium-154	0.128 U	\	\	\	\	\	\
													Europium-155	0.125 U	\	\	\	\	\	\
													Gross alpha	13.2	\	\	\	\	\	\
													Gross beta	18.2	\	\	\	\	\	\
													Potassium-40	12.2	\	\	\	\	\	\
													Radium-226	0.422	\	\	\	\	\	\
													Radium-228	0.653	\	\	\	\	\	\
													Thorium-228	0.585	\	\	\	\	\	\
													Thorium-232	0.653	\	\	\	\	\	\
													Strontium-90*	0.872	\	\	\	\	\	\
													Uranium-235	0.162 U	\	\	\	\	\	\
													Uranium-238	4.38 U	\	\	\	\	\	\
													Aluminum	5620 C	\	\	\	\	\	\
													Antimony	0.94 U	\	\	\	\	\	\
													Arsenic*	2.2	\	\	\	\	\	\
													Barium*	66.2 C	\	\	\	\	\	\
													Beryllium*	0.81	\	\	\	\	\	\
													Boron*	2.6	\	\	\	\	\	\
													Cadmium	0.16 U	\	\	\	\	\	\
													Calcium	3740 C	\	\	\	\	\	\
													Chromium (total)*	7.6	\	\	\	\	\	\
													Chromium (hexavalent)	0.45 UD	\	\	\	\	\	\
													Cobalt*	6.4	\	\	\	\	\	\
													Copper*	12.8	\	\	\	\	\	\
													Iron	21300 C	\	\	\	\	\	\
													Lead*	6.2	\	\	\	\	\	\
													Magnesium	3980 C	\	\	\	\	\	\
													Manganese*	310 C	\	\	\	\	\	\
													Mercury	0.01 U	\	\	\	\	\	\
													Molybdenum	0.94 U	\	\	\	\	\	\
													Nickel*	9.7	\	\	\	\	\	\
													Potassium	2530	\	\	\	\	\	\
													Selenium	1.9 U	\	\	\	\	\	\
													Silicon	2370 C	\	\	\	\	\	\
													Silver	0.31 U	\	\	\	\	\	\
													Sodium	218 C	\	\	\	\	\	\
													Vanadium*	53.1	\	\	\	\	\	\
													Zinc*	47.2 C	\	\	\	\	\	\
													TPH	150 U	\	\	\	\	\	\
													Benzo(a) anthracene*	0.019 J	\	\	\	\	\	\
													Benzo(a)pyrene*	0.023 J	\	\	\	\	\	\
													Benzo(b) fluoranthene*	0.055 J	\	\	\	\	\	\
													Benzo(k) fluoranthene*	0.022 J	\	\	\	\	\	\
													Bis(2-ethylhexyl) phthalate*	0.45 B	\	\	\	\	\	\
													Chrysene*	0.044 J	\	\	\	\	\	\
													Di-n-butylphthalate*	0.026 J	\	\	\	\	\	\
													Fluoranthene*	0.038 J	\	\	\	\	\	\
													Pyrene*	0.04 J	\	\	\	\	\	\
													Dalapon*	0.031 J	\	\	\	\	\	\
													DDE*	0.0014 JD	\	\	\	\	\	\
													Aroclor-1254*	0.015 J	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list only includes herbicides, PCBs, pesticides, and SVOAs detected.							
100-F-51	Unplanned Release	100-FR-1	6.10 m x 4.88 m (20 ft x 16 ft)	1945-1954	The site consisted of the soil under and around the former 146-F Fish Laboratory. Liquids that were chemically and radiologically contaminated were routinely used in the building. These liquids were contained in large, open-topped fish troughs and head tanks, which overflowed and drained onto the sloped concrete floor of the building into a centrally located concrete trench that drained to the process sewer, which in turn drained to the 147-F Pump House pit. Sometime after 1951, the building was removed, and a Butler building warehouse (142-F) was constructed on the southern portion of the original concrete pad. Although this pad was not observed during a 2005 walkdown of the area, it is not known if or when the pad may have been removed.	Interim Closed Out	WSRF 2011-085	20-Dec-10	20-Jan-11	18-May-11	399	1.5	Americium-241	0.277 U					0.136 U	
													Carbon-14*	0.667		0.203			0.464	
													Cesium-137	0.0426 U					0.0393 U	
													Cobalt-60	0.0375 U					0.0362 U	
													Europium-152	0.102 U					0.0919 U	
													Europium-154	0.116 U					0.124 U	
													Europium-155	0.0952 U					0.0872 U	
													Gross Alpha	11.3					10.7	
													Gross Beta	35.9					29.5	
													Nickel-63	14.2 U					16 U	
													Uranium-234*	0.388		0.168			0.158	
													Uranium-235	0.21 UJ					0.135 UJ	
													Uranium-238*	0.361		0.181			0.16	
													Aluminum	7560					7510	
													Antimony	0.40 UJ					0.42 U	
													Arsenic*	4.3		2.9			4.1	

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Barium*	86.4		67.5			73.2	
													Beryllium*	0.15 B		0.13			0.15 B	
													Boron*	1.5 B		1.1			1.5 B	
													Cadmium*	0.10 B		0.081			0.12 B	
													Calcium	4720					4310	
													Chromium*	10.9		10			10.9	
													Cobalt*	5.9		5.6			6	
													Copper*	20.2 MJ		14.2			20.9	
													Hexavalent Chromium	0.155 U					0.155 U	
													Iron	16800					16900	
													Lead*	27.6		12.8			14.6	
													Magnesium	4260					4250	
													Manganese*	263		249			270	
													Mercury*	0.067		0.076			0.075	
													Molybdenum	0.27 U					0.29 U	
													Nickel*	11.2		10.5			10.7	
													Potassium	1460					1250	
													Selenium	0.91 U					0.95 U	
													Silicon	321 J					280	
													Silver	0.17 U					0.18 U	
													Sodium	291					261	
													Vanadium*	43.7		39.9			41.6	
													Zinc*	104 X		50.4			52.5 X	
													TPH-Diesel Range	1.8 J		1			16 J	
													TPH-Diesel Range EXT*	8.5		5.6			7.9	
													Anthracene*	0.0035 U					0.016 JX	
													Benzo(a) anthracene*	0.0049 J					0.0035 U	
													Benzo(a)pyrene*	0.013 J					0.012 J	
													Benzo(b)fluoranthene*	0.0082 JX					0.0058 JX	
													Chrysene*	0.0096 J					0.0048 J	
													Fluoranthene*	0.015 J					0.014 U	
													Pyrene*	0.013 JX					0.013 J	
													Aroclor-1254*	0.012					0.04	
													Aroclor-1260*	0.0075 J					0.027	
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list only includes PCBs, PAHs, and SVOAs that were detected.							

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-52	Unplanned Release	100-FR-1	35 m x 25 m (115 ft x 82 ft)	1952-1967	The site is the soil under and around the former 146-FR Radioecology and Aquatic Biology Laboratory. This lab functionally replaced the 146-F Fish Laboratory and associated outdoor ponds. The 146-F Lab contained offices, laboratories, hatcheries, rearing troughs, and 12 large, rectangular operating ponds. Liquids that were chemically and radiologically contaminated were routinely used in the building. In November 1964, a fire destroyed the roof over the operating ponds. In June 1975 the concrete foundation was removed.	No Action	WSRF 2008-022	N/A	N/A	28-Nov-07 20-Feb-08 (Confirmatory sampling)	N/A	1.3 (sampling depth)		Trench	Pipe Scale	\	\	\	\	\
													Americium-241	0.301 U	0.02 U	\	\	\	\	\
													Carbon-14	3.1 U	4.73 U	\	\	\	\	\
													Cesium-137	0.035 U	0.02 U	\	\	\	\	\
													Cobalt-60	0.039 U	0.02 U	\	\	\	\	\
													Europium-152	0.088 U	0.055 U	\	\	\	\	\
													Europium-154	0.137 U	0.063 U	\	\	\	\	\
													Europium-155	0.112 U	0.042 U	\	\	\	\	\
													Gross alpha	15.4	8.31 U	\	\	\	\	\
													Gross beta	20.8	7.87 U	\	\	\	\	\
													Nickel-63	3.56 U	2.26 U	\	\	\	\	\
													Potassium-40	14.8	1.16	\	\	\	\	\
													Radium-226	0.567	0.148	\	\	\	\	\
													Radium-228	0.837	0.15 U	\	\	\	\	\
													Strontium-90	\	0.23 U	\	\	\	\	\
													Thorium-228	0.9	0.026 U	\	\	\	\	\
													Thorium-232	0.837	0.15 U	\	\	\	\	\
													Uranium-233/234*	0.551	1.12	\	\	\	\	\
													Uranium-235	0.427 U	0.226 U	\	\	\	\	\
													Uranium-238*	0.88	1.02	\	\	\	\	\
													Aluminum	6020	235	\	\	\	\	\
													Antimony*	0.92 U	3.3	\	\	\	\	\
													Arsenic*	3.1	15.7	\	\	\	\	\
													Barium*	67.6	63.9	\	\	\	\	\
													Beryllium*	0.49	0.27 U	\	\	\	\	\
													Boron*	1.5	2.7 U	\	\	\	\	\
													Cadmium*	0.15 U	5	\	\	\	\	\
													Calcium	4090 C	3950	\	\	\	\	\
													Chromium (total)*	9	70	\	\	\	\	\
													Cobalt*	5.4	9.7	\	\	\	\	\
													Copper*	13.8	59.8	\	\	\	\	\
													Chromium (hexavalent)*	1.1	0.35 U	\	\	\	\	\
													Iron	14800	550000	\	\	\	\	\
													Lead*	5.2	2.2	\	\	\	\	\
													Magnesium	3850	341	\	\	\	\	\
													Manganese*	270	1760	\	\	\	\	\
													Mercury*	0.01	0.06	\	\	\	\	\
													Molybdenum*	0.92	15.2	\	\	\	\	\
													Nickel*	10.9	50.5	\	\	\	\	\
													Potassium	1110	72.9	\	\	\	\	\
													Selenium	1.8 U	3.2 U	\	\	\	\	\
													Silicon	2910	1150	\	\	\	\	\
													Silver*	0.31 U	0.75	\	\	\	\	\
													Sodium	188	26.6	\	\	\	\	\
													Vanadium*	35.1	0.76 U	\	\	\	\	\
													Zinc*	36.1 C	244	\	\	\	\	\
													TPH	138 U	133 U	\	\	\	\	\
													PCBs	0.014 U	0.2 U	\	\	\	\	\
													Benzo(a)pyrene*	0.019 J	0.33 U	\	\	\	\	\
													Bis(2-ethylhexyl) phthalate*	0.24 JB	0.018 JB	\	\	\	\	\
													Di-n-butylphthalate*	0.044 J	0.33 U					
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list only includes SVOAs that were detected.							

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-53	Septic Tank	100-FR-1	Not Documented	1944	The site is a potential septic system that included a drainfield and related piping. Historical research produced an early (1944) pre-construction drawing that depicts what appears to be an undocumented septic system or drain field directly east of the 108-F Building footprint. No clear evidence was found of a septic tank, septic line, or drain field. Confirmatory sampling results indicated that the residual concentrations of COPCs at this site do not exceed the RAOs for direct exposure, groundwater protection, and river protection.	No Action	WSRF 2008-019	N/A	N/A	04-Dec-07 19-Feb-08 (Confirmatory Sampling)	N/A	2.4 (sample depth)		Soil	Clay Pipe	Metal Pipe	\	\	\	\
													Americium-241	0.04 U	0.041 U	0.218 U	\	\	\	\
													Antimony-125	0.05 U	\	\	\	\	\	\
													Barium-133	0.02 U	\	\	\	\	\	\
													Cesium-137*	0.02 U	0.58	0.06 U	\	\	\	\
													Cobalt-60	0.02 U	0.03 U	0.06 U	\	\	\	\
													Europium-152	0.06 U	0.08 U	0.16 U	\	\	\	\
													Europium-154	0.082 U	0.091 U	0.163 U	\	\	\	\
													Europium-155	0.061 U	0.108 U	0.143 U	\	\	\	\
													Gross alpha	20.7	19.4	6.56 U	\	\	\	\
													Gross beta	16.7	17.3	5.36 U	\	\	\	\
													Plutonium-238	0.261 U	0.358	0.288 U	\	\	\	\
													Plutonium-239/240	0.162 U	0.223 U	0.179 U	\	\	\	\
													Potassium-40	14	12.8	1.43 U	\	\	\	\
													Radium-226	0.514	0.787	0.128 U	\	\	\	\
													Radium-228	0.674	1.06	0.261 U	\	\	\	\
													Strontium-90	0.345 U	0.396 U	0.299 U	\	\	\	\
													Thorium-228	0.686	1.06	0.088 U	\	\	\	\
													Thorium-232	0.674	1.06	0.261 U	\	\	\	\
													Uranium-233/234*	0.797	0.874	0.265	\	\	\	\
													Uranium-235	0.434 U	0.337 U	0.224 U	\	\	\	\
													Uranium-238*	0.562	0.938	0.183	\	\	\	\
													Aluminum	7660	6120	112	\	\	\	\
													Antimony*	1.01 J	1.2	0.89	\	\	\	\
													Arsenic*	2.61 J	3	16.1	\	\	\	\
													Barium*	75.2	62.1	7.6	\	\	\	\
													Beryllium*	0.29	0.68	0.14 U	\	\	\	\
													Boron*	2	3.1	3.9	\	\	\	\
													Cadmium*	0.13 B	0.15 U	0.58 U	\	\	\	\
													Calcium	6670 J	5230 C	2680 C	\	\	\	\
													Chromium (total)*	11.2 J	12.9	5.8	\	\	\	\
													Chromium (hexavalent)	0.20 U	\	\	\	\	\	\
													Cobalt*	5.79	5.7	2.4	\	\	\	\
													Copper*	11.3	13.3	7.2	\	\	\	\
													Iron	19400 J	19400	437000	\	\	\	\
													Lead*	21.2	18.3	2	\	\	\	\
													Magnesium	4090 J	3600	81.8	\	\	\	\
													Manganese*	289	188	1680 C	\	\	\	\
													Mercury*	0.03 UJ	1.2	0.01 U	\	\	\	\
													Molybdenum*	0.38 UJB	1.1	3	\	\	\	\
													Nickel*	10.1	10.4	7.3	\	\	\	\
													Potassium	1580	821	27.3	\	\	\	\
													Selenium	1.0 U	1.8 U	1.7 U	\	\	\	\
													Silicon	641 J	3000	1020	\	\	\	\
													Silver	0.20 U	0.3 U	0.3 U	\	\	\	\
													Sodium	236	208 C	27 C	\	\	\	\
													Vanadium*	45.6 J	54.4	5.9	\	\	\	\
													Zinc*	46.9	112 C	6.9 U	\	\	\	\
													Aroclor-1254*	0.0139 UJ	0.0091 J	0.2 U	\	\	\	\
													Aroclor-1260*	0.0139 UJ	0.010 J	0.2 U	\	\	\	\
													DDT*	0.0013 UD	0.0023 JD	0.005 U	\	\	\	\
													Benzo(a) anthracene*	0.689 UJ	0.14 J	0.33 U	\	\	\	\
													Benzo(a)pyrene*	0.689 UJ	0.1 J	0.33 U	\	\	\	\
													Benzo(b) fluoranthene*	0.689 UJ	0.092 J	0.33 U	\	\	\	\
													Benzo(g,h,i) perylene*	0.689 UJ	0.068 J	0.33 U	\	\	\	\
													Benzo(k) fluoranthene*	0.689 UJ	0.1 J	0.33 U	\	\	\	\
													Bis(2-ethylhexyl) phthalate*	0.689 UJ	0.16 JB	0.021 JB	\	\	\	\
													Chrysene*	0.689 UJ	0.16 JB	0.023	\	\	\	\
													Dibenz(a,h) anthracene*	0.689 UJ	0.034 J	0.33 U	\	\	\	\
													Fluoranthene*	0.689 UJ	0.17 J	0.046 J	\	\	\	\
													Indeno(1,2,3-cd)pyrene*	0.689 UJ	0.059 J	0.33 U	\	\	\	\
													Isophorone	0.689 UJ	0.34 U	0.035 J				
													Phenanthrene*	0.689 UJ	0.047 J	0.027 J	\	\	\	\
													Pyrene*	0.689 UJ	0.26 J	0.032 J				
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list only includes PCBs, pesticides, and SVOAs that were detected.							
100-F-54	Unplanned Release	100-FR-1	1,500 m^2 (16,100 ft^2)	1952-1967	The 100-F-54 site is soil associated with the former pastures for holding domestic farm animals used in experimental toxicology studies. Evaluation of historical information resulted in identification of the Experimental Animal Farm pastures as having potential for residual soil contamination resulting from excrement from experimental animals. Some of these areas were also used for stockpiling soil associated with the 100-F Area remedial action excavations, and were extensively disturbed during remediation	No Action	WSRF 2008-015	N/A	N/A	19-Nov-07 (Confirmatory sampling)	N/A	0.15 (sample depth)		Americium-241	0.303 U	\	\	\	\	\	\
													Cesium-137*	0.673	\	0.254	\	\	\	\
													Cobalt-60	0.039 U	\	\	\	\	\	\
													Europium-152*	0.598	\	0.234	\	\	\	\
													Europium-154	0.123 U	\	\	\	\	\	\
													Europium-155	0.119 U	\	\	\	\	\	\
													Gross alpha	14.1	\	\	\	\	\	\

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Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
					activities. The site was subsequently surveyed and/or sampled to demonstrate no residual radiological activity.								Gross beta	22.3	\	\	\	\	\	\
													Potassium-40	15.2	\	\	\	\	\	\
													Radium-226	0.765	\	\	\	\	\	\
													Radium-228	1.01	\	\	\	\	\	\
													Thorium-228	1.26	\	\	\	\	\	\
													Thorium-232	1.01	\	\	\	\	\	\
													Strontium-90	0.262 U	\	\	\	\	\	\
													Uranium-235	0.156 U	\	\	\	\	\	\
													Uranium-238	4.34 U	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs.							
100-F-55	Unplanned Release	100-FR-1	0.3 m (1 ft) depth	Not Documented	During activities to search for and characterize the 1607-F7 Septic System, a trench was excavated across part of the site. The trench exposed an ash layer nearby but outside the 1607-F7 footprint. The ash was found to be above cleanup limits for sodium dichromate. The ash layer is unrelated to the 1607‑F7 Septic System.	Interim Closed Out	WSRF 2011-083	16-Sep-10	7-Oct-10	29-Jun-11 05-Jul-11	35.6	0.7		North	South	North	South	\	\	\
													Americium-241	\	0.288 U	\	\	\	0.336 U	\
													Cesium-137*	\	0.0509	\	0.023	\	0.137	\
													Cobalt-60	\	0.0381 U	\	\	\	0.046 U	\
													Europium-152	\	0.108 U	\	\	\	0.128 U	\
													Europium-154	\	0.133 U	\	\	\	0.132 U	\
													Europium-155	\	0.100 U	\	\	\	0.117 U	\
													Aluminum	10100	9610	\	\	\	10300	\
													Antimony	0.38 U	0.37 U	\	\	0.66	0.40 U	\
													Arsenic*	4.3	5.4	3.3	3	2.1	3.9	\
													Barium*	115	120	104	87.8	48.6	157	\
													Beryllium*	0.3	0.21	0.29	0.14	0.038	0.33	\
													Boron*	2.9	7.3	2.3	4.1	1.2	8.3	\
													Cadmium*	0.17 B	0.16 B	0.14	0.097	0.076	0.27	\
													Calcium	4890	6710	\	\	\	5960	\
													Chromium*	13.8	13.4	12.4	11.6	10.8	16.9	\
													Cobalt*	7.4 X	6.8 X	6.9	6.4	5.9	7.3 X	\
													Copper*	19	14.9	17	13.4	13	18.2	\
													Hexavalent Chromium	0.155 U	0.155 U	\	\	\	0.749 J	\
													Iron	20100	17000	\	\	\	18900	\
													Lead*	136	6.5	36	5.7	4.7	19.5 X	\
													Magnesium	4890	4530	\	\	\	5520	\
													Manganese*	360	267	326	257	286	340	\
													Mercury*	0.039	15.8	0.027	6.8	\	0.69 N	\
													Molybdenum*	0.26 B	0.25 B	\	\	\	0.39 B	\
													Nickel*	13.3	17.1	12	12.6	10.4	15.0 X	\
													Potassium	1950	1230	\	\	\	1930	\
													Selenium	0.86 U	0.85 U	\	\	\	0.90 U	\
													Silicon	341	424 X	\	\	\	429	\
													Silver	0.16 U	0.16 U	\	\	\	0.97	\
													Sodium	262	429	\	\	\	332	\
													Vanadium*	45.3	40.9	42.8	39.2	42	42.6	\
													Zinc*	64.7	84.1	53.9	48.7	34.5	74.8 X	\
													Acenaphthene*	0.016 JX	0.026 J	\	\	\	0.011 J	\
													Anthracene*	0.025 J	0.022	\	0.012	\	0.026	\
													Benzo(a)anthracene*	0.11	0.14	0.172	0.071	\	0.11	\
													Benzo(a)pyrene*	0.12	0.12	0.127	0.082	0.0084	0.086	\
													Benzo(b)fluoranthene*	0.092	0.09	0.149	0.196	0.0047	0.14 JK	\
													Benzo(ghi)perylene*	0.071 J	0.062 J	\	\	\	0.043 J	\
													Benzo(k)fluoranthene*	0.056	0.057	0.031	0.087	0.0063	0.043	\
													Chrysene*	0.097	0.14	0.161	0.44	0.0067	0.11 J	\
													Dibenz(a,h)anthracene*	0.021 J	0.023 JX	\	\	\	0.013 U	\
													Fluoranthene*	0.26	0.25	0.192	0.492	\	0.2	\
													Fluorene*	0.017 J	0.016 J	\	\	\	0.016 J	\
													Indeno(1,2,3-cd)pyrene*	0.063	0.052	\	\	\	0.049	\
													Phenanthrene*	0.17	0.087	0.062	0.043	\	0.11 J	\
													Pyrene*	0.23	0.25	0.182	0.709	\	0.21 J	\
													alpha-Chlordane*	0.028 D	\	0.03	\	\	0.00081 J	\
													DDE*	0.012 JD	\	\	\	\	0.0027 U	\
													DDT*	0.011 JD	\	\	\	\	0.0066 U	\
													Dieldrin*	0.032 D	\	0.037	\	\	0.003 JD	\
													gamma-Chlordane*	0.022 D	\	0.016	\	\	0.00091 J	\
													Bis(2-ethylhexyl)phthalate*	0.69 JBD	0.052 U	0.211	\	\	0.069 JB	\
													Di-n-butylphthalate*	0.12 J	0.033 U	\	\	\	0.035 U	\
													Di-n-octylphthalate*	0.015 U	0.016 U	\	\	\	0.068 J	\
													Phenol*	0.025 J	0.035 J	\	\	\	0.08 J	\
													Aroclor-1248*	0.0049 U	0.24 D	\	\	\	0.018 P	\
													Aroclor-1254*	0.0028 U	0.024	\	\	0.0049	0.019	\
													Aroclor-1260*	0.029 P	0.0085 J	0.046	\	\	0.022	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list only includes PAHs, PCBs, pesticides, and SVOAs that were detected.							
100-F-56:1 (subsite)	Dumping Area	100-FR-1	Not Documented	Not Documented	The subsite consisted of two areas. The first area was described as red garnet sand (sand blasting) with some scattered miscellaneous debris,	Interim Closed Out	WSRF 2011-094	1-Mar-11	22-Aug-11	13-Jul-11 22-Aug-11	440 bcm	1	Aluminum	7350	\	\	\	\	\	\
													Antimony	0.37 UJ	\	\	\	\	\	\

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
					wood, metal, glass, and vitrified clay chunks. The second area was described as stained soil - garnet sandblasting. The exact process that caused the garnet sand to be located here is unknown; however, garnet sand was used in sandblasting operations to clean rust, paint, and contamination from the surface of metal components.								Arsenic*	2.6	\	2.0	\	\	\	\
													Barium*	91	\	67.8	\	\	\	\
													Beryllium*	0.42	\	0.17	\	\	\	\
													Boron*	2.6	\	1.4	\	\	\	\
													Cadmium	0.14 B	\	0.077	\	\	\	\
													Calcium	6000	\	\	\	\	\	\
													Chromium	58.6	\	10.4	\	\	\	\
													Hexavalent Chromium	1.56	\	\	\	\	\	\
													Cobalt	7.5	\	6.8	\	\	\	\
													Copper	16.8	\	13.3	\	\	\	\
													Iron	20300	\	\	\	\	\	\
													Lead*	22.5	\	8.8	\	\	\	\
													Magnesium	4260	\	\	\	\	\	\
													Manganese*	296	\	275	\	\	\	\
													Mercury*	1.9	\	0.44	\	\	\	\
													Molybdenum	0.45 BM	\	\	\	\	\	\
													Nickel*	11.6	\	10.7	\	\	\	\
													Potassium	1340	\	\	\	\	\	\
													Selenium	0.85 U	\	\	\	\	\	\
													Silicon	418	\	\	\	\	\	\
													Silver	0.16 U	\	\	\	\	\	\
													Sodium	228	\	\	\	\	\	\
													Vanadium*	52.6	\	48.3	\	\	\	\
													Zinc*	40.3	\	35.9	\	\	\	\
													Aroclor-1254*	3.2 JP	\	\	\	\	\	\
													Aroclor-1260*	17	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list only includes PCBs that were detected.							
100-F-56:2 (subsite)	Dumping Area	100-FR-1	Not Documented	Not Documented	The subsite consisted of 20 locations that had stained soil and/or debris across the 100-F area. Seventeen of the sites were the result of treated wood debris, two of the sites had oil filters, and one site had lead debris.	Interim Closed Out	WSRF 2011-040	1-Mar-11	2-Mar-11	N/A	20 bcm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-F-57:1 (subsite)	Foundation	100-FR-1	Not Documented	1945-1965	The site consists of the eastern half of the remaining below-grade pump room facilities and foundation of the 190-F Process Water Pump House.	Interim Closed Out	WSRF 2012-010	6-Dec-10	31-Jan-12	16-Jan-12 01-Feb-12	3,002 bcm	2	Aluminum	9840	\	\	\	\	7030	\
													Antimony*	1.4	\	0.84	\	\	0.71 J	\
													Arsenic*	6.5 M	\	3.5	\	\	2.8	\
													Barium*	87.7	\	63.9	\	\	54.8	\
													Beryllium*	0.68	\	0.46	\	\	0.59	\
													Boron*	2.4	\	\	\	\	0.94 U	\
													Cadmium*	0.15 B	\	0.11	\	\	0.057 B	\
													Calcium	23800	\	\	\	\	6160 X	\
													Chromium*	39.4 X	\	19.8	\	\	11.4 X	\
													Cobalt*	6.1 X	\	5.5	\	\	5.3 X	\
													Copper*	29.0 X	\	17.2	\	\	12.9	\
													Hexavalent Chromium	0.155 U	\	\	\	\	0.155 U	\
													Iron	21400 X	\	\	\	\	18700 X	\
													Lead*	88.8	\	27.7	\	\	10.2	\
													Magnesium	4410 X	\	\	\	\	4110 X	\
													Manganese*	317 X	\	265	\	\	260 X	\
													Mercury*	1.3	\	0.29	\	\	0.032	\
													Molybdenum*	0.41 B	\	\	\	\	0.25 U	\
													Nickel*	21.5 X	\	21.5	\	\	10.5 X	\
													Potassium	1900	\	\	\	\	1130	\
													Selenium*	1.0	\	\	\	\	0.83 U	\
													Silicon	705 XJ	\	\	\	\	382 XJ	\
													Silver*	0.17 B	\	\	\	\	0.15 U	\
													Sodium	764	\	\	\	\	239	\
													Vanadium*	52.5	\	41.9	\	\	48.8	\
													Zinc*	53.9	\	40.4	\	\	36.8 X	\
													Asbestos	< 1%	\	\	\	\	U	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs.							
100-F-57:2 (subsite)	Foundation	100-FR-1	Not Documented	1945-1965	The site consists of the western half of the remaining below-grade pump room facilities and foundation of the 190-F Process Water Pump House.	Interim Closed Out	WSRF-2012-058	6-Dec-10	9-Apr-12	22-May-12	55,700 BCM	12.5	See WSRF-2012-058							
100-F-58	Dumping Area	100-FR-1	Not Documented	1944	This site consisted of miscellaneous potentially asbestos-containing waste that had been discarded/abandoned in the 100‑F Area. Various sizes and forms of hazardous (CERCLA) and/or dangerous (MTCA) surface debris waste materials were left during the construction, operation, D&D, and remedial action activities at the 100‑F Area.	Interim Closed Out	WSRF 2011-033	2-Mar-11	2-Mar-11	N/A	1 bcm	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-F-59	Burn Pit	100-FR-1	Not Documented	1945-1965	100-F-59 is a non-radiological waste site created from two riparian areas known to contain contaminants above soil RAGs. The first area was originally part of the 128-F-2 Burning Pit waste site located adjacent to the Columbia River. This portion of the site was remediated to an elevation below the ordinary high water mark of the river but sampling shows that metal contamination in excess of soil RAGs was present. The second area was located in riparian areas east and southeast of the 128-F-2 waste site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-F-60	Product Piping	100-FR-1	10 cm (4 in.) diameter	Not Documented	The pipe was discovered on December 29, 2004 while excavating a test pit for 100-F-26:9. The pipe could not be correlated with previously documented pipelines in the area. A portion of the pipe was removed, along with the junction box associated with 100-F-26:9.	No Action	WSRF 2010-034	N/A	N/A	15-Sep-2010 (Confirmatory sampling)	N/A	N/A		Underlying Soil	Pipe Contents	N/A	N/A	N/A	N/A	N/A
													Aluminum	6220	5970	\	\	\	\	\
													Antimony	0.38 U	0.38 U	\	\	\	\	\
													Arsenic	2.1	2.5	\	\	\	\	\
													Barium	83	100	\	\	\	\	\
													Beryllium	0.2	0.15 B	\	\	\	\	\
													Boron	3.3	2.2	\	\	\	\	\
													Cadmium	0.045 B	0.043 B	\	\	\	\	\
													Calcium	5580	5530	\	\	\	\	\
													Chromium	9.9 J	9.2 J	\	\	\	\	\
													Cobalt	5.1	5.8	\	\	\	\	\
													Copper	12.2	13.7	\	\	\	\	\
													Iron	15200 J	27100 J	\	\	\	\	\
													Lead	26	112	\	\	\	\	\
													Magnesium	3820	3730	\	\	\	\	\
													Manganese	248 J	282 J	\	\	\	\	\
													Mercury	0.0099 B	0.1	\	\	\	\	\
													Molybdenum	0.26 U	0.31 B	\	\	\	\	\
													Nickel	10.1	10.1	\	\	\	\	\
													Potassium	993	929	\	\	\	\	\
													Selenium	0.85 U	0.85 U	\	\	\	\	\
													Silicon	272 J	260 J	\	\	\	\	\
													Silver	0.16 U	0.21	\	\	\	\	\
													Sodium	254	273	\	\	\	\	\
													Vanadium	38.6	40.7	\	\	\	\	\
													Zinc	37	99.6	\	\	\	\	\
													Diethyl phthalate	0.027 U	0.44	\	\	\	\	\
													Pesticides	U	U	\	\	\	\	\
													Aroclor-1254	0.0027 U	0.0074 J	\	\	\	\	\
													Aroclor-1260	0.0027 U	0.0042 J	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list only includes PCBs, pesticides, and SVOAs that were detected.							
100-F-61	Unplanned Release	100-FR-1	Not Documented	Not Documented	The site consisted of an area of stained soil. The stained soil was discovered on October 11, 2004 while excavating a French drain (100-F-12) during confirmatory sampling. Field personnel observation concluded that the stained soil was not associated with the French drain. A sample of the stained soil was collected for analysis, which indicated the presence of several constituents above remedial action goals. The stained soil was included for remedial action in the remaining sites verification package for 100-F-12 as a discovery site.	Interim Closed Out	WSRF 2011-103	7-Feb-11	11-Aug-11	14-Sep-11	1329.3	3.0	Aluminum	8730	\	\	\	\	\	\
													Antimony	0.39 UJ	\	\	\	\	\	\
													Arsenic*	3.2	\	2.7	\	\	\	\
													Barium*	87.9	\	69.1	\	\	\	\
													Beryllium*	0.44	\	0.4	\	\	\	\
													Boron*	3.6	\	3.3	\	\	\	\
													Cadmium*	0.13	\	0.11	\	\	\	\
													Calcium	7410	\	\	\	\	\	\
													Chromium*	13	\	11.8	\	\	\	\
													Cobalt*	6.9	\	6.3	\	\	\	\
													Copper*	16.4	\	15.4	\	\	\	\
													Iron	19500	\	\	\	\	\	\
													Lead*	8.5	\	6.5	\	\	\	\
													Magnesium	4510	\	\	\	\	\	\
													Manganese*	331	\	300	\	\	\	\
													Mercury*	0.69	\	0.16	\	\	\	\
													Molybdenum	0.52 B	\	\	\	\	\	\
													Nickel*	11.9	\	11.2	\	\	\	\
													Potassium	1420	\	\	\	\	\	\
													Selenium	0.89 U	\	\	\	\	\	\
													Silicon	438 JX	\	\	\	\	\	\
													Silver	0.17 U	\	\	\	\	\	\
													Sodium	239	\	\	\	\	\	\
													Vanadium*	50.7	\	44.4	\	\	\	\
													Zinc*	45	\	39.5	\	\	\	\
													TPH-Diesel Range*	37	\	35.7	\	\	\	\
													TPH-Diesel Range EXT*	97	\	93.9	\	\	\	\
													Acenaphthene*	0.039 J	\	\	\	\	\	\
													Anthracene*	0.14 JX	\	0.057	\	\	\	\
													Benzo(a)anthracene*	0.53 J	\	7.22	\	\	\	\
													Benzo(a)pyrene*	0.50 JX	\	2.92	\	\	\	\
													Benzo(b)fluoranthene*	0.45 JKD	\	2.27	\	\	\	\

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100-F Area Waste Sites																				
													Benzo(ghi)perylene*	0.17 J	\	0.065	\	\	\	\
													Benzo(k)fluoranthene*	0.17 J	\	0.56	\	\	\	\
													Chrysene*	0.50 J	\	5.25	\	\	\	\
													Dibenz(a,h)anthracene*	0.035 JX	\	\	\	\	\	\
													Fluoranthene*	1.2 J	\	7.97	\	\	\	\
													Fluorene*	0.15 J	\	\	\	\	\	\
													Indeno(1,2,3-cd)pyrene*	0.21 J	\	0.091	\	\	\	\
													Phenanthrene*	1.1 J	\	0.35	\	\	\	\
													Pyrene*	1.3 J	\	12.4	\	\	\	\
													Aroclor-1260*	0.046	\	\	\	\	\	\
													Bis(2-ethylhexyl)phthalate*	0.042 J	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list only includes PAHs, PCBs, and SVOAs that were detected.							
100-F-62	Sanitary Sewer	100-FR-1	Not Documented	1949-1976	The site included influent pipes at two locations in the 100-F Experimental Animal Farm. One location was the influent piping from the 141-M Building to the 1607-F7 septic tank and drain field. The other location was the influent piping from the 144-F Building to the 100-F-31 septic tank and drain field. The 1607-F7 septic tank and drain field received sanitary sewage from the 141-M Building. The 100-F-31 septic tank and drain field received animal and human septic waste from the 144-F Building.	Interim Closed Out	WSRF 2011-104	13-Dec-10	10-Mar-11	29-Jun-11 05-Jul-11	3,949	4.4	See 100-F-55. Verification sampling of the two sites was performed concurrently and the results are the same.							
100-F-63	Radioactive Process Sewer	100-FR-1	Not Documented	1945 - 1976	The site included radioactive effluent piping and process sewers at the north end of the Experimental Animal Farm.	Interim Closed Out	WSRF 2011-097	20-Dec-10	20-Jan-11	18-May-11	333	1.5	See 100-F-51. Because of their proximity to one another, the two sites were remediated together. Verification sampling of the two sites was performed concurrently, and the results are the same.							
100-F-64	Unplanned Release	100-FR-1	Not Documented	Not Documented	The site is red- and yellow-stained soil straddling railroad tracks, with elevated concentrations of lead.	Interim Closed Out	WSRF 2011-119	3-Aug-11	22-Aug-11	29-Aug-11	651	1.5	Aluminum	11500	\	\	\	\	\	\
													Antimony	0.40 UJ	\	\	\	\	\	\
													Arsenic*	3.6	\	3.0	\	\	\	\
													Barium*	88.4	\	78.1	\	\	\	\
													Beryllium*	0.39	\	0.33	\	\	\	\
													Boron*	1.9 B	\	1.4	\	\	\	\
													Cadmium*	0.12 B	\	0.094	\	\	\	\
													Calcium	4310	\	\	\	\	\	\
													Chromium*	16.4 X	\	12.6	\	\	\	\
													Cobalt*	9.0 X	\	7.5	\	\	\	\
													Copper*	18.7	\	14.8	\	\	\	\
													Hexavalent Chromium	0.155 U	\	\	\	\	\	\
													Iron	25100 X	\	\	\	\	\	\
													Lead*	10.9	\	6.5	\	\	\	\
													Magnesium	5460	\	\	\	\	\	\
													Manganese*	362	\	312	\	\	\	\
													Mercury*	0.084	\	\	\	\	\	\
													Molybdenum	0.27 U	\	\	\	\	\	\
													Nickel*	15.4	\	11.8	\	\	\	\
													Potassium	1880	\	\	\	\	\	\
													Selenium	0.90 U	\	\	\	\	\	\
													Silicon	813 JX	\	\	\	\	\	\
													Silver	0.17 U	\	\	\	\	\	\
													Sodium	272	\	\	\	\	\	\
													Vanadium*	53.6	\	44.7	\	\	\	\
													Zinc*	69.5 X	\	48.1	\	\	\	\
													TPH-Diesel*	7.2	\	4.574	\	\	\	\
													TPH-Diesel EXT*	13	\	7.033	\	\	\	\
													Benzo(a)anthracene*	0.0071 J	\	\	\	\	\	\
													Benzo(b)fluoranthene*	0.010 J	\	\	\	\	\	\
													Benzo(k)fluoranthene*	0.006 J	\	\	\	\	\	\
													Chrysene*	0.0091 J	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list only includes the PAHs that were detected.							
100-F-65	Unplanned Release	100-FR-1	Not Documented	Not Documented	The site consists of green-stained soil along the railroad tracks immediately west of the 190-F Building. The site was discovered on March 28, 2011 while remediating 100-F-57.	Interim Closed Out	WSRF-2012-059	See 100-F-57:2	See 100-F-57:2	See 100-F-57:2	See 100-F-57:2	See 100-F-57:2	See WSRF-2012-059							
116-F-1	Trench	100-FR-1	1744. m x 6.1 m x 3.05 m (5722 ft x 20 ft x 10 ft)	1953-1965	The site was commonly known as Lewis Canal. The 105-F Reactor cooling water was diverted to the Columbia River via this trench. The site received liquid wastes from the 105-F, 182-F, 183-F, and 190‑F Buildings and decontamination wastes from the 189-F Building. The canal was used for emergency cooling water from 105-F Reactor and backwash water from the water treatment facilities (182-F, 183-F). Received 100,000,000 L (26,417,205 gal) of effluent; 100 kg (220 lb) sodium dichromate and 10,000 kg (22,046 lb) sulfamic acid. Radiological inventory was 3.4 curies.	Interim Closed Out	CVP-2002-00009	1-Jun-02	1-Feb-03	Dec-2002 thru Feb-2003	77,696	4.5	Carbon-14	2.85	\	1.47	\	\	3.5 U	0.633
													Cesium-137	0.243	\	0.11	\	\	0.061 U	0.0258
													Cobalt-60	0.27	\	0.0549	\	\	0.057 U	0.0242
													Europium-152	0.616	\	0.177	\	\	0.11 U	0.0524
													Europium-154	0.39	\	0.137	\	\	0.2 U	0.0821
													Arsenic	16	\	6	\	\	16	11
													Chromium (hexavalent)	1.5	\	1.5	\	\	0.43 U	0.43
116-F-2	Trench	100-FR-1	158.8 m x 6.1 m x 3.35 m (521 ft x 20 ft x	1948-1965	The site was an open liquid waste trench. The site received cooling water effluent from the 107-F Retention Basin during reactor outages resulting from fuel ruptures. During deactivation of the 105-F Reactor,	Interim Closed Out	CVP-2001-00005	22-Nov-00	29-May-02	21-May-02 28-May-02 29-May-02	113,007	>4.6	Carbon-14	4.0 U	6.62 J	-0.911	3.87	\	4.9 U	-0.93
													Cesium-137	0.419	44.7	0.262	20	\	0.123	0.0715

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
			11 ft)		the unit received overflow water from the 105‑F Storage Basin via the retention basin. It received 60,000,000 L (15,850,323 gal) of effluent and 60,000 kg (132,277 lb) sodium dichromate. Radiological inventory was 15 curies.								Cobalt-60	0.18 U	2.07	0.0459	1.3	\	0.076 U	0.027
													Europium-152	1.02	85.7	0.413	41.6	\	0.19 U	0.0638
													Europium-154	0.39 U	8.9	0.131	4.21	\	0.22 U	0.0835
													Chromium (hexavalent)	1.6	1.4	1.6	0.91	\	0.42 U	0.42
116-F-3	Trench	100-FR-1	30.48 m x 6.10 m x 3.35 m (100 ft x 20 ft x 11 ft)	1947-1951	The trench received reactor cooling water during a 1947 fuel rupture occurrence. In 1951, the trench received sludge from the 105-F Fuel Storage Basin. It received 7,000,000 L (1,849,204 gal) of effluent and 4 kg (8.8 lb) of sodium dichromate. Radiological inventory was 0.0021 curies.	Interim Closed Out	CVP-2002-00008	2-Oct-10	26-Feb-03	06-Jan-03 26-Feb-03	5205	4.7	Europium-152	0.357	\	0.274	\	\	\	\
													Europium-154	0.4 U	\	0.182	\	\	\	\
													Chromium (hexavalent)	0.74	\	0.74	\	\	\	\
116-F-4	Crib	100-FR-1	1.83 m x 1.83 m x 3.05 m (6 ft x 6 ft x 10 ft)	1950-1952	The site received coolant water from pressure tubes containing ruptured fuel elements. It was estimated that 280 curies of fission products were discharged to the crib during its operation. It was also assumed that the contaminated soil occupied a volume of 6 by 6 by 7.6 m (20 by 20 by 25 ft). Received 4,000 L (1056 gal) of effluent and 0.004 kg (19.85 lb) sodium dichromate. Radiological inventory was 3.5 curies.	Interim Closed Out	CVP-2001-00006	20-Sep-93	10-Nov-93	22-Sep-93 thru 10-Nov-93	700	5.5	Americium-241	0.04 U	\	0.015	\	\	0.05 U	0.019
													Cesium-137	1.8	\	0.9	\	\	3.5	1.5
													Cobalt-60	0.05 U	\	0.025	\	\	0.06 U	0.026
													Europium-152	0.1 U	\	0.049	\	\	0.1 U	0.048
													Europium-154	0.07 U	\	0.034	\	\	0.08 U	0.034
													Plutonium-239/240	0.074	\	0.036	\	\	0.08	0.022
													Strontium-90	0.80 U	\	0.35	\	\	1.6 J	0.72
													Uranium-233/234	0.65	\	0.53	\	\	0.72	0.6
													Uranium-238	0.56	\	0.51	\	\	0.53	0.5
													Chromium (total)	9.9	\	\	\	\	11.1	\
													Chromium was analyzed for but not identified as a COC; therefore, no statistical calculations were performed.							
116-F-5	Crib	100-FR-1	3.05 m x 3.05 m x 2.74 m (10 ft x 10 ft x 9 ft)	1954-1964	The site was used to dispose of liquid decontamination wastes from the 105‑F Reactor ball washer assembly. It served to clean and decontaminate small, steel-jacketed boron balls used in the Ball 3X safety system. The ball washer assembly was located in the transfer basin area of the 105-F Reactor Building. It received 3,000 L (792 gal) of effluent and nitric acid. Radiological inventory was 0.00092 curies.	Interim Closed Out	CVP-2001-00007	30-Jul-97	30-Jul-97	30-Jul-97	None	References to excavation depths in CVP range from 3.4 to 3.7 m	Cobalt-60	0.0196 U	\	0.028	\	\	\	\
													Cesium-137	0.222	\	0.1984	\	\	\	\
													Europium-155	0.0561	\	\	\	\	\	\
													Uranium-238	0.886	\	\	\	\	\	\
													Arsenic	1.8	\	\	\	\	\	\
													Chromium (hexavalent)	0.03UJ	\	\	\	\	\	\
													Europium -155, uranium, arsenic, and hexavalent chromium were also analyzed for and detected but not identified as COCs; therefore, no statistical calculations were performed.							
116-F-6	Trench	100-FR-1	91.44 m x 30.84 m x 3 m (300 ft x 100 ft x 10 ft)	1952-1965	The site was an open excavation used to receive reactor cooling water. The site received water diverted during reactor shutdowns when maintenance was necessary on the effluent system. This practice was followed during several reactor upgrades. Contaminants included europium-152, cobalt-60, europium-154, cesium-137, and sulfamic acid (3,000 kg [6,600 lb]). It received 100,000 L (25,417 gal) of effluent. Radiological inventory was 6.5 curies.	Interim Closed Out	CVP-2002-00010	1-Oct-02	6-Jan-03	20-Nov-02 thru 25-Nov-02 06-Jan-03	32,156	5.1	Cesium-137	1.31	12.2	0.525	6.08	\	\	\
													Cobalt-60	0.083	0.514	0.0267	0.34	\	\	\
													Europium-152	0.631	12.7	0.277	7.51	\	\	\
													Europium-154	0.15 U	1.24	0.0577	0.727	\	\	\
													Strontium-90	4.14	31.8	0.969	12.8	\	\	\
													Chromium (hexavalent)	0.53	1.7	0.53	1.32	\	\	\
116-F-7:1 (subsite)	Crib	100-FR-1	20 m x 20 m x 5.2 m (65.6 ft x 65.5 ft x 17.1 ft)	1960-1965	This crib is part of the 116-F-7 Crib waste site. The crib was used to dispose of water collected in exhaust system filter seal pits in the 117-F Ventilation Exhaust Filter Building (132-F-5). The 117-F facility filtered ventilation air from the confinement zone of the 105-F Reactor Building prior to its discharge to the atmosphere through the 105-F Reactor Building Stack.	No Action	WSRF 2004-128	N/A	N/A	12-Oct-04 (Confirmatory sampling)	N/A	5.8 (sampling depth)	Americium-241	0.14 U	\	\	\	\	\	\
													Carbon-14	3.2 UJ	\	\	\	\	\	\
													Cesium-137*	0.046	\	\	\	\	\	\
													Cobalt-60	0.047 U	\	\	\	\	\	\
													Europium-152	0.092 U	\	\	\	\	\	\
													Europium-154	0.13 U	\	\	\	\	\	\
													Europium-155	0.098 U	\	\	\	\	\	\
													Gross alpha	8.42	\	\	\	\	\	\
													Gross beta	16.4	\	\	\	\	\	\
													Potassium-40	10.4	\	\	\	\	\	\
													Radium-226	0.414	\	\	\	\	\	\
													Radium-228	0.482	\	\	\	\	\	\
													Thorium-228	0.493	\	\	\	\	\	\
													Thorium-232	0.482	\	\	\	\	\	\
													Tritium	2.5 UJ	\	\	\	\	\	\
													Uranium-235	0.14 U	\	\	\	\	\	\
													Uranium-238	4.9 U	\	\	\	\	\	\
													Aluminum	5250 C	\	\	\	\	\	\
													Antimony*	0.302 J	\	\	\	\	\	\
													Arsenic*	2.4	\	\	\	\	\	\
													Barium*	54.6 C	\	\	\	\	\	\
													Beryllium*	0.316	\	\	\	\	\	\
													Boron*	2.3 C	\	\	\	\	\	\
													Cadmium*	0.115	\	\	\	\	\	\
													Calcium	3930 J	\	\	\	\	\	\
													Chromium (total)*	36.7 J	\	\	\	\	\	\
													Cobalt*	7.2	\	\	\	\	\	\
													Copper*	17.8	\	\	\	\	\	\
													Chromium (hexavalent)*	0.742	\	\	\	\	\	\
													Iron	19500	\	\	\	\	\	\
													Lead*	2.9	\	\	\	\	\	\
													Magnesium	6830 C	\	\	\	\	\	\
													Manganese*	242 C	\	\	\	\	\	\
													Mercury*	0.145	\	\	\	\	\	\
													Molybdenum*	0.449 J	\	\	\	\	\	\
													Nickel*	40.9	\	\	\	\	\	\

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Potassium	738	\	\	\	\	\	\
													Selenium	0.39 U	\	\	\	\	\	\
													Silicon	303 J	\	\	\	\	\	\
													Silver	0.09 U	\	\	\	\	\	\
													Sodium	159 C	\	\	\	\	\	\
													Vanadium*	42.3 J	\	\	\	\	\	\
													Zinc*	35 C	\	\	\	\	\	\
													Aroclor-1260*	0.017	\	\	\	\	\	\
													Di-n-butylphthalate*	0.02 J	\	\	\	\	\	\
													*These analytes are COPCs and represent those contaminants present at concentrations exceeding laboratory detection limits. The list only includes PCBs and SVOAs that were detected.							

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
116-F-7:2 (subsite)	Crib	100-FR-1	10 cm (4 in.) diameter 185 m (607 ft) length	1960-1965	This transite pipeline was part of the 116-F-7 Crib waste site. The pipe was used to transfer water from the 132-F-5 Filter Building sump pump discharge to the 116-F-7 Seal Water Crib. The vented pipeline was fed from a sump pump and sloped for gravity drain with an average depth of about 1.5 m (4.9 ft) below grade.	No Action	WSRF 2005-044	The subsite pipeline is composed of the same material as in the crib and was exposed to the same waste stream. The soil analyses showed the crib and its piping met the cleanup standards. The absence of detectable radiation reading and pipeline scaling indicates a low risk of significant contamination. As such, the 116-F-7:2 pipeline subsite is appropriate for a "No Action" reclassification.											
116-F-8	Outfall	100-FR-1	8.23 m x 4.27 m x 7.9 m (27 ft x 14 ft x 26 ft)	1945-1965	The outfall was constructed of a reinforced, compartmentalized concrete weir box, with walls extending from 7.6 m (25 ft) below grade and 0.3 m (1 ft) above grade. The outfall was designed as an open concrete structure for discharging reactor effluent cooling water from the 116-F-14 (107-F Retention Basin) to the center of the Columbia River via 100-F-39 River Pipelines. The outfall could have also received reactor water that had been diverted for fish studies and other process wastes from the Experimental Animal Farm.	Interim Closed Out	WSRF 2006-038	31-Aug-04	26-Feb-06	09-Feb-06 thru 26-Feb-06	4,900	8	Americium-241	0.32 U	0.32 U	\	\	\	0.31 U	\
													Cesium-137*	0.098 U	0.273	0.044 (ND)	0.249	\	0.14 U	0.056 (ND)
													Cobalt-60*	0.099 U	0.098 U	0.047 (ND)	0.081 (ND)	\	0.15 U	0.057 (ND)
													Europium-152*	0.22 U	2.1	0.1 (ND)	2.37	\	0.42 U	0.15 (ND)
													Europium-154*	0.32 U	0.45 U	0.14 (ND)	0.22 (ND)	\	0.44 U	0.18 (ND)
													Europium-155*	0.26 U	0.33 U	0.12 (ND)	0.16 (ND)	\	0.29 U	0.13 (ND)
													Potassium-40	13.6	14.4	\	\	\	14.4	\
													Radium-226	0.485	0.418	\	\	\	0.414	\
													Radium-228	0.685	0.891	\	\	\	0.7	\
													Silver-108m	0.061 U	0.1 U	\	\	\	0.097 U	\
													Thorium-228	0.516	0.849	\	\	\	0.744 J	\
													Thorium-232	0.685	0.891	\	\	\	0.7	\
													Uranium-235	0.36 U	0.46 U	\	\	\	0.35 U	\
													Uranium-238	12 U	17 U	\	\	\	16 U	\
													Chromium (hexavalent)*	0.35	0.22 U	0.27	0.22 (ND)	\	0.25	0.22
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs.							
116-F-9	Trench	100-FR-1	154.53 m x 3.05 m x 3.05 m (507 ft x 10 ft x 10 ft)	1963-1976	The site was a leaching trench that received wastewater from the cleaning of animal pens in the Experimental Animal Farm. The pipelines that originated at the 141-C Building and terminated at the trench were documented in 100-F-29. The total estimated radioactive inventory of the 116-F-9 Animal Leach Trench contaminated soil column was 4.1 curies. The site received 300,000,000 L (79,251,615 gal) of effluent.	Interim Closed Out	CVP-2001-00008	4-Sep-01	10-Apr-02	01-Apr-02 10-Apr-02	49,404	5.7	Carbon-14	4.1 U	8.5 J	0.69	2	\	\	\
													Cesium-137	0.05 U	3.45	0.021	1.2	\	\	\
													Cobalt-60	0.051 U	2.34	0.022	0.68	\	\	\
													Europium-152	0.12 U	12.6	0.049	3.5	\	\	\
													Strontium-90	3.3	19.3	1.4	8.3	\	\	\
													Chromium (hexavalent)	0.42 U	1.2	0.42	1.2	\	\	\
116-F-10	French Drain	100-FR-1	0.9 m (3 ft) diameter 3 m (10 ft) deep	1948-1965	The site consisted of a vitrified clay pipe placed in the ground vertically with approximately 3.0 m (10 ft) of sand and gravel beneath the tile. The site received radioactive water rinses and spent nitric acid from the decontamination of fuel element spacers and other reactor hardware, primarily pressure tube caps. In addition, the site received liquid waste effluent (400,000 L [105,668 gal]) containing 2,000 kg (4,400 lb) of sodium dichromate, 2,000 kg (4,400 lb) of sodium oxalate, and 2,000 kg (4,400 lb) of sodium sulfamate. The site may have received other chemicals as well.	Interim Closed Out	CVP-2003-00003	22-Oct-02	22-Oct-02	5-Dec-02	848	4.4	Cesium-137	1.5	\	1.1	\	\	\	\
													Cobalt-60	0.143	\	0.102	\	\	\	\
													Europium-152	0.569	\	0.394	\	\	\	\
													Uranium-238	0.689	\	0.487	\	\	\	\
													Chromium (total)	10.6	\	10.5	\	\	\	\
													Chromium (hexavalent)	0.43 U	\	0.429	\	\	\	\
116-F-11	French Drain	100-FR-1	0.91 m (3 ft) diameter	1953-1965	The site received liquid decontamination wastes from the cushion corridor area when reactor hardware was decontaminated. It received 200,000 L (52,834 gal) of effluent.	Interim Closed Out	CVP-2001-00003	See 100-F-19:2. This site was remediated along with 100-F-19:2 and the sample results are the same.												
116-F-12	French Drain	100-FR-1	0.91 m (3 ft) diameter	1944-1964	The French drain was used to dispose of effluent pump prime recovered from the 148-F Pumphouse. This drain would have received minimal amounts of leakage or spillage from two pumps located in the facility that were used to supply reactor cooling water to the fish studies facilities.	Interim Closed Out	CVP-2001-00002	See 100-F-19:1. This site was remediated along with 100-F-19:1 and the sample results are the same.												
116-F-13	French Drain	100-FR-1	Not Documented	Not Documented	The site had been described as a French drain. A review of documents and drawings had found no indication that a French drain ever existed at the 1705-F Experimental Garden. This site appears to be confused with both the 146-FR fish rearing ponds and the 1607-F6 septic tank.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
116-F-14	Retention Basin	100-FR-1	145.08 m x 72.85 m x 3.66 m (476 ft x 239 ft x 12 ft)	1945-1965	The site was used as a retention basin to hold the discharged reactor water for a brief period, allowing radioactive decay and thermal cooling to occur before the water was discharged to the Columbia River. The retention basin was a rectangular, concrete-lined, open-top reservoir designed to retain reactor cooling water prior to being discharged to the Columbia River. The basin had an estimated capacity of 5.67E+08 L (1.5E+08 gal.).	Interim Closed Out	CVP-2001-00009	27-Jul-00	16-Jan-02	17-Sep-01 29-Oct-01 17-Dec-01 16-Jan-02	212,015	>4.6	Carbon-14	3.1 U	25	2	8.6	\	\	\
													Cesium-137	1	13	0.63	7.7	\	\	\
													Cobalt-60	0.11 U	23	0.075	7.5	\	\	\
													Europium-152	4.1	420	1.8	150	\	\	\
													Europium-154	0.54 U	43	0.19	14	\	\	\
													Europium-155	0.19 U	1.8 U	0.091	0.33	\	\	\
													Strontium-90	0.32	2.7	0.15	1.1	\	\	\
													Nickel-63	20	1400	6	420/1.2	\	\	\
													Chromium (total)	29	200	24	130	\	\	\
													Chromium (hexavalent)	2.1	11 J	1.2	6.2	\	\	\
													Cobalt	8.8	7.2	7.7	5.9	\	\	\
116-F-15	Sump	100-FR-1	0.91 m x 0.91 m x 0.91 m (3 ft x 3 ft x 3 ft)	1944-1973	The unit was a concrete sump near the center of the 108-F Radiobiology Laboratory Building first floor. It is known that alpha contamination experiments were conducted in the 108-F Building. The sump was reported to have received liquid wastes from the 108-F Building sinks, glovebox drains, and ventilation hoods. Because alpha contamination experiments were conducted at the 108-F Building, there was a potential for alpha contamination to be associated with this waste site.	Interim Closed Out	WSRF 2007-003	26-Sep-05	26-Sep-05	12-Dec-06	86	2.6	Americium-241	0.92 U	\	\	\	\	\	\
													Cesium-137*	0.316	\	0.1	\	\	\	\
													Cobalt-60	0.063 U	\	\	\	\	\	\
													Europium-152*	0.07	\	0.06	\	\	\	\
													Europium-154	0.21 U	\	\	\	\	\	\
													Europium-155	0.22 U	\	\	\	\	\	\
													Nickel-63	3.8 U	\	\	\	\	\	\
													Plutonium-238	0.26 U	\	\	\	\	\	\
													Plutonium-239/240	0.26 U	\	\	\	\	\	\
													Potassium-40	30.9	\	\	\	\	\	\
													Radium-226	0.996	\	\	\	\	\	\
													Radium-228	1.37	\	\	\	\	\	\
													Silver-108m	0.046 U	\	\	\	\	\	\
													Thorium-228	1.6	\	\	\	\	\	\
													Thorium-232	1.37	\	\	\	\	\	\
													Strontium-90	0.35 U	\	\	\	\	\	\
													Uranium-233/234*	0.733	\	0	\	\	\	\
													Uranium-235	0.29 U	\	\	\	\	\	\
													Uranium-238*	0.625	\	0	\	\	\	\
													Aluminum	6220	\	\	\	\	\	\
													Antimony	0.77 UJ	\	\	\	\	\	\
													Arsenic*	4.4	\	2.7	\	\	\	\
													Barium*	190 CJ	\	74	\	\	\	\
													Beryllium*	0.27	\	0.13	\	\	\	\
													Boron*	19.6 CJ	\	4.4	\	\	\	\
													Cadmium*	0.11	\	\	\	\	\	\
													Calcium	7730 CJ	\	\	\	\	\	\
													Chromium (total)*	21.3	\	13	\	\	\	\
													Chromium (hexavalent)*	1.7	\	0.6	\	\	\	\
													Cobalt*	5.9	\	5.5	\	\	\	\
													Copper*	15.4	\	14	\	\	\	\
													Iron	16900	\	\	\	\	\	\
													Lead*	26	\	9.8	\	\	\	\
													Magnesium	3950 C	\	\	\	\	\	\
													Manganese*	257	\	244	\	\	\	\
													Mercury*	0.19	\	\	\	\	\	\
													Molybdenum*	0.97	\	0.66	\	\	\	\
													Nickel*	11.1	\	11	\	\	\	\
													Potassium	986	\	\	\	\	\	\
													Selenium	1.3 U	\	\	\	\	\	\
													Silicon	907 CJ	\	\	\	\	\	\
													Silver	0.15 UC	\	\	\	\	\	\
													Sodium	420 C	\	\	\	\	\	\
													Vanadium*	41	\	38.3	\	\	\	\
													Zinc*	43 C	\	38.5	\	\	\	\
													Asbestos	ND	\	\	\	\	\	\
													Aroclor-1254*	0.025	\	0.014	\	\	\	\
													Aroclor-1260*	0.027	\	\	\	\	\	\
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list only includes PCBs that were detected.							
116-F-16	Outfall	100-FR-1	30.48 m x 4.57 m (100 ft x 15 ft)	1956-1976	This site consisted of an open-topped, compartmentalized, reinforced-concrete outfall structure. The site transported effluent from the Experimental Animal Farm and aquatic biology laboratory to the Columbia River. The lower portion is intact and remains exposed.	Interim Closed Out	WSRF 2006-039	31-Aug-04	8-Sep-05	13-Feb-06 15-Feb-06	2,090	<4.6	Americium-241	0.27 U	\	\	\	\	0.2 U	\
													Cesium-137*	0.13 U	\	0.062 (ND)	\	\	0.069 U	0.031 (ND)
													Cobalt-60	0.14 U	\	\	\	\	0.054 U	\
													Europium-152	0.39 U	\	\	\	\	0.13 U	\
													Europium-154	0.44 U	\	\	\	\	0.17 U	\
													Europium-155	0.28 U	\	\	\	\	0.15 U	\
													Nickel-63	\	\	\	\	\	0.762 U	\
													Potassium-40	17.4	\	\	\	\	15.5	\
													Plutonium-238	0.50 U	\	\	\	\	0.65 U	\
													Plutonium-239/240*	0.50 U	\	0.043 (ND)	\	\	0.33 U	0.054 (ND)
													Radium-226	0.343	\	\	\	\	0.484	\
													Radium-228	1.0 U	\	\	\	\	0.763	\
													Silver-108m	0.092 U	\	\	\	\	0.031 U	\

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Thorium-228	0.629	\	\	\	\	0.685	\
													Thorium-232	1.0 U	\	\	\	\	0.763	\
													Strontium-90*	0.36 U	\	0.003 (ND)	\	\	0.32 U	0.068
													Uranium-235	0.43 U	\	\	\	\	0.18 U	\
													Uranium-238	17 U	\	\	\	\	5.9 U	\
													Chromium (hexavalent)*	0.42	\	0.39	\	\	0.23	0.23
													Lead*	5.3	\	4.7	\	\	3.2	3.1
													*These analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs.							
118-F-1	Burial Ground	100-FR-2	183 m x 152 m x 6.1 m (600 ft x 500 ft x 20 ft)	1954-1965	The site consisted of a burial ground that received radioactive equipment and other miscellaneous wastes from 100-F Reactor operations. Three unlined trenches and a pit were present at the site.	Interim Closed Out	CVP-2007-00001	27-Dec-05	22-Jun-07	May-07 thru Jun-07	87,070	5.5		Shallow Zone	Process Trench	Shallow Zone	Process Trench	N/A	OB/BCL	N/A
													Americium-241	0.51 U	0.31 U	0.063	0.089	\	0.599	0.23
													Carbon-14	4.4 U	3.42 U	0.83	0.32	1.6 U	4.5 U	1.9
													Cesium-137	0.72	1	0.21	0.45	\	0.661	0.046
													Cobalt-60	0.125	0.114	0.038	0.074	\	0.037 U	0.016
													Curium-242	0.53 U	0.32 U	\	\	\	0.55 U	\
													Curium-243/244	0.63 U	0.33 U	\	\	\	0.59 U	\
													Europium-152	0.18 U	0.21	0.054	0.14	\	0.089 U	0.041
													Europium-154	0.133 U	0.138 U	0.053	0.063	\	0.12 U	0.051
													Europium-155	0.103 U	0.116 U	\	\	\	0.12 U	\
													Nickel-63	7.22	14.3	2.3	4.4	\	6.6 U	2.5
													Plutonium-238	0.39 U	0.41 U	0.028	0.1	\	0.43 U	0.16
													Plutonium-239/240	0.243	0.41 U	0.11	0.13	\	0.38 U	0.15
													Potassium-40	15.6	13.7	\	\	\	13.5	\
													Radium-226	0.467	0.544	\	\	\	0.586	\
													Radium-228	0.7	1.02	\	\	\	0.918	\
													Silver-108m	0.085 U	0.027 U	0.017	0.013	\	0.027 U	0.011
													Thorium-228	0.742	0.813	\	\	\	1.04	\
													Thorium-232	0.7	1.02	\	\	\	0.918	\
													Strontium-90	1.32	0.338	0.38	0.22	\	0.4 U	0.15
													Tritium	5.3 U	4.1 U	1.4	2	0.541 U	7.3 U	2.5
													Uranium-234	0.903	0.647	\	\	\	0.712	\
													Uranium-235	0.0588	0.25 U	\	\	\	0.32 U	\
													Uranium-238	1.25	0.704	0.58	0.65	\	0.635	0.48
													Aluminum	5760	6270	\	\	\	7980	\
													Antimony	0.93 J	0.97 U	\	\	\	0.98 J	\
													Arsenic	4.2	11.2	\	\	\	7.5	\
													Barium	63	83.8	\	\	\	88.8	\
													Beryllium	0.24	0.32	\	\	\	0.48	\
													Boron	2	1.2	\	\	\	3.3	\
													Cadmium	0.1	0.14	0.067	0.093	\	0.09 U	0.09
													Calcium	4860	4780	\	\	\	6220	\
													Chromium	9.4	11.1	\	\	\	11.6	\
													Cobalt	7.2	7.8	\	\	\	8.3	\
													Copper	16	13.1	\	\	\	14.2	\
													Iron	20100	18100	\	\	\	22000	\
													Lead	7.9	32	5.4	18	\	22.8	12
													Magnesium	4670	4030	\	\	\	4590	\
													Manganese	309	366	\	\	\	372	\
													Mercury	0.02 U	0.01	0.0087	0.012	\	0.02 U	\
													Molybdenum	0.47	0.66	\	\	\	0.9	\
													Nickel	11.9	10.9	\	\	\	12	\
													Potassium	929	1330	\	\	\	1480	\
													Selenium	1.3 U	1.3 U	\	\	\	1.1 U	\
													Silicon	1130 J	1240 J	\	\	\	633	\
													Silver	0.27 U	0.88	\	\	\	4.3	\
													Sodium	121	147	\	\	\	139	\
													Vanadium	54.2	44.2	\	\	\	57.7	\
													Zinc	95.3	40.4	\	\	\	47.7	\
													SVOAs, PCBs, pesticides, gamma energy-emitting isotopes, gross alpha, gross beta, and asbestos were not detected above background during in-process sampling activities and were not identified. The 118-F-1 excavation area has a maximum depth of approximately 5.5 m (18 ft), which includes a shallow and a deep zone. However, the entire excavation area is considered one decision unit, and was closed out using the more restrictive shallow zone cleanup criteria.							

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation: Max Concentration (pCi/g, mg/kg) Shallow[a]	Excavation: Max Concentration (pCi/g, mg/kg) Deep[b]	Excavation: 95% UCL (pCi/g, mg/kg) Shallow[a]	Excavation: 95% UCL (pCi/g, mg/kg) Deep[b]	Excavation: Focused or Discrete Max (pCi/g, mg/kg)	Overburden/Stockpile or Staging Pile: Max Concentration (pCi/g, mg/kg)	Overburden/Stockpile or Staging Pile: 95% UCL (pCi/g, mg/kg)
100-F Area Waste Sites																				
118-F-2	Burial Ground	100-FR-2	112.2 m x 99.4 m (368 ft x 326 ft)	1945-1965	This burial ground, formerly called Solid Waste Burial Ground No. 1, was the original solid waste disposal site for the 100-F Area. Eight trenches contained miscellaneous solid waste from 105-F and one trench contained solid waste from the biology facilities. According to historical documentation, these trenches were covered to grade prior to 1956. The burial ground contains several long metal pipes with wooden lids used to dispose of contaminated animal carcasses.	Interim Closed Out	CVP-2007-00002	17-Jan-06	8-Aug-07	May-07 thru Jul-07	36,895	4.6						Max Focused Sample	Max Overburden BCL Stockpile	Max Staging Pile (ACL) Footprint
													Americium-241	0.309 U	\	\	\	0.079 U	0.26 U	0.267 U
													Barium-133	0.035 U	\	\	\	0.033 U	\	\
													Cesium-137*	0.093	\	0.069	\	0.062	0.108	0.623
													Cobalt-60*	0.037 U	\	0.017 U	\	0.026 U	0.034 U	0.04 U
													Europium-152*	0.096 U	\	0.044 U	\	0.135	0.083 U	0.079 U
													Europium-154*	0.139 U	\	0.059 U	\	5.07	0.21 U	0.122 U
													Europium-155	0.116 U	\	\	\	0.068 U	0.1 U	0.104 U
													Nickel-63*	-0.84 U	\	-1.071 U	\	5.07	0.639 U	1.32 U
													Plutonium-238*	0.110 U	\	0.083 U	\	0 U	0.06 U	0.125 U
													Plutonium-239/240*	0.314	\	0.21	\	0.037 U	0 U	0.081 U
													Potassium-40	15.8	\	\	\	11.6	12.3	13.6
													Radium-226	0.575	\	\	\	0.382	0.414	0.506
													Radium-228	1.04	\	\	\	0.53	0.66	0.796
													Silver-108m	0.029 U	\	\	\	0.019 U	0.024 U	0.023 U
													Strontium-90*	0.132 U	\	0.12 U	\	0.248 U	0.267 U	0.336 U
													Thorium-228	0.894	\	\	\	0.652	0.766	0.696
													Thorium-232	1.04	\	\	\	0.53	0.66	0.796
													Uranium-233/234*	0.681	\	0	\	0.519	0.591	0.613
													Uranium-235	0.171 U	\	\	\	0.035 U	0.15 U	0.152 U
													Uranium-238*	0.839	\	0	\	0.433	0.458	0.523
													Aluminum	7510	\	\	\	5070	6800	5830
													Antimony	0.65 UJ	\	\	\	0.78	0.93 U	0.65 U
													Arsenic	2.9	\	\	\	1.5	2.6	2.7
													Barium	93	\	\	\	58.8	86.8 C	79.3 C
													Beryllium	0.37	\	\	\	0.37	0.52	0.4
													Boron	1.1 U	\	\	\	1.2	1.4	1.4
													Cadmium	0.16	\	\	\	0.22	0.23	0.15 U
													Calcium	5060	\	\	\	3730	4550 C	4060 C
													Chromium (total)*	13	\	10.4	\	6.6	9.4 C	8.4
													Cobalt	8.1	\	\	\	6.8	8.9	7
													Cooper	17	\	\	\	10.4	12.8	12.6
													Iron	19800	\	\	\	21600	25100 C	17900 C
													Lead*	6.8	\	5.7	\	3.8	4.8	4.7
													Magnesium	5460	\	\	\	1490	4910 C	3960 C
													Manganese	347	\	\	\	274	395 C	337
													Mercury*	0.02 U	\	0.02 U	\	0.02 U	0.02 U	0.02 U
													Molybdenum	0.47 U	\	\	\	0.48	0.49 U	0.9
													Nickel	15.1	\	\	\	10.7	13.3	10.6
													Potassium	1390	\	\	\	1040	1500	1420 C
													Selenium	1.3 U	\	\	\	1.3 U	1.4	1.4
													Silicon	2890	\	\	\	955	1450 C	1630
													Silver	0.26 U	\	\	\	0.26 U	0.29	0.27 U
													Sodium	220	\	\	\	171	146 C	262 C
													Vanadium	41.3	\	\	\	56.8	63	42
													Zinc	47.4	\	\	\	40.9	52.1 C	40.3 C
													Benzo(a)anthracene	\	\	\	\	0.039	\	\
													Benzo(a)pyrene	\	\	\	\	0.029	\	\
													Benzo(b) fluoranthene	\	\	\	\	0.037	\	\
													Benzo(g,h,i) perylene	\	\	\	\	0.027	\	\
													Benzo(k) fluoranthene	\	\	\	\	0.049	\	\
													Bis (2-ethylhexyl) phthalate	\	\	\	\	0.09	\	\
													Butylbenzylphthalate	\	\	\	\	0.023	\	\
													Chrysene	\	\	\	\	0.061	\	\
													Di-n-butylphthalate	\	\	\	\	0.044	\	\
													Fluoranthene	\	\	\	\	0.079	\	\
													Indeno(1,2,3-cd)pyrene	\	\	\	\	0.022	\	\
													Pyrene	\	\	\	\	0.073	\	\
													*These analytes were identified as COCs in the SAP. The list only includes SVOAs that were detected.							
																		Max Focused Sample	Max Overburden	Max Staging Pile (ACL) Footprint
118-F-3	Burial Ground	100-FR-2	53.34 m x 15.24 m x 4.6 m (175 ft x 50 ft x 15 ft)	1952	The site received irradiated reactor parts that were removed during the project to convert the 105-F Reactor from the Liquid 3X to the Ball 3X safety systems. The waste was primarily 38 to 61 vertical safety rod thimbles and also step plugs. The principal radionuclide was short-lived cobalt-60.	Interim Closed Out	CVP-2006-00008	31-Jan-06	23-May-06	6-Aug-12	4,061	3.5								
													Cesium-137*	0.16	\	0.144	\	0.18 U	0.12 U	0.198
													Cobalt-60*	0.378	\	0.27	\	0.18 U	0.15 U	0.378
													Nickel-63*	23.7	\	16.5	\	4.05 U	1.12 U	15.3
													Strontium-90*	0.276	\	0.235	\	0.217 U	0.078 U	0.071 U
													Barium*	89.4	\	104	\	902	73.2 C	98.3
													Boron*	116 C	\	10.4	\	150	2.6	6.6

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
118-F-4	Crib	100-FR-2	3 m x 3 m (10 ft x 10 ft)	1949	The site was a small, unlined pit constructed to receive silica gel from the 115-F Drying Towers. The site contains 270 kg (0.3 ton) of silica gel removed from a gel tower in one of the 115‑F Dryer Rooms.	No Action	WSRF 2004-129	N/A	N/A	07-Oct-04 (Confirmatory Sampling)	N/A	3 (sampling depth)	Americium-241	0.4 U	\	\	\	\	\	\
													Carbon-14	6.7 U	\	\	\	\	\	\
													Cesium-137	0.856	\	\	\	\	\	\
													Cobalt-60	0.075 U	\	\	\	\	\	\
													Europium-152	0.2 U	\	\	\	\	\	\
													Europium-154	0.23 U	\	\	\	\	\	\
													Europium-155	0.19 U	\	\	\	\	\	\
													Gross alpha	13.9	\	\	\	\	\	\
													Gross beta	24.7	\	\	\	\	\	\
													Potassium-40	15.6	\	\	\	\	\	\
													Radium-226	0.887	\	\	\	\	\	\
													Radium-228	0.946	\	\	\	\	\	\
													Strontium-90	0.042 U	\	\	\	\	\	\
													Thorium-228	0.825	\	\	\	\	\	\
													Thorium-232	0.946	\	\	\	\	\	\
													Tritium	0.24 U	\	\	\	\	\	\
													Uranium-235	0.25 U	\	\	\	\	\	\
													Uranium-238	9.7 U	\	\	\	\	\	\
													Aluminum	7480 C	\	\	\	\	\	\
													Antimony*	0.38	\	\	\	\	\	\
													Arsenic*	2.3	\	\	\	\	\	\
													Barium*	394	\	\	\	\	\	\
													Beryllium*	0.55	\	\	\	\	\	\
													Boron*	43.6	\	\	\	\	\	\
													Cadmium*	0.2	\	\	\	\	\	\
													Calcium	0.2	\	\	\	\	\	\
													Chromium (total)*	7.6	\	\	\	\	\	\
													Cobalt*	5.3	\	\	\	\	\	\
													Copper*	16	\	\	\	\	\	\
													Iron	14100	\	\	\	\	\	\
													Lead*	14.4	\	\	\	\	\	\
													Magnesium	3590 C	\	\	\	\	\	\
													Manganese*	228	\	\	\	\	\	\
													Mercury	0.02 U	\	\	\	\	\	\
													Molybdenum*	0.66	\	\	\	\	\	\
													Nickel*	8.9	\	\	\	\	\	\
													Potassium	1270	\	\	\	\	\	\
													Selenium	0.44 U	\	\	\	\	\	\
													Silicon	656	\	\	\	\	\	\
													Silver	0.1 U	\	\	\	\	\	\
													Sodium	354 C	\	\	\	\	\	\
													Vanadium*	40	\	\	\	\	\	\
													Zinc*	78.2	\	\	\	\	\	\
													TPH	37.8 U	\	\	\	\	\	\
													PCBs	0.015 U	\	\	\	\	\	\
													Acetone*	0.014	\	\	\	\	\	\
													Acenaphthene*	1 J	\	\	\	\	\	\
													Benzo(a) anthracene*	0.022 J	\	\	\	\	\	\
													Benzo(a)pyrene*	0.016 J	\	\	\	\	\	\
													Benzo(b) fluoranthene*	0.086 J	\	\	\	\	\	\
													Benzo(g,h,i) perylene*	0.025 J	\	\	\	\	\	\
													Benzo(k) fluoranthene*	0.012 J	\	\	\	\	\	\
													Chrysene*	0.056 J	\	\	\	\	\	\
													Fluoranthene*	0.11 J	\	\	\	\	\	\
													Indeno(1,2,3-cd)pyrene*	0.13 J	\	\	\	\	\	\
													Phenanthrene*	0.11 J	\	\	\	\	\	\
													Pyrene*	0.1 J	\	\	\	\	\	\
													* COPCs represent contaminants present at concentrations exceeding laboratory detection limits. The list only includes PAHs and VOAs that were detected.							
118-F-5	Burial Ground	100-FR-2	152.4 m x 45.7 m x 4.6 m (500 ft x 150 ft x 15 ft)	1954-1975	The site was a single, unlined trench that received radioactive sawdust and other solids from the floors of animal pens in the 100-F Area Experimental Animal Farm. Prior to backfilling, the site consisted of several trenches oriented north and south.	Interim Closed Out	CVP-2007-00003	28-Nov-05	29-Aug-07	31 Jul-07 01-Aug-07 12-Sep-07	77.687	5.5		118-F-5	118-F-5A	118-F-5	118-F-5A			
													Americium-241	0.24 U	0.166 U	\	\	\	0.252 U	\
													Barium-133	0.031 U	0.032 U	\	\	\	0.036 U	\
													Carbon-14*	4.20 U	3.42 U	-0.202 U	-0.558U	\	4.28 U	1.58 U
													Cesium-137*	0.030 U	0.037	0.014 U	0.015U	\	0.026	0
													Cobalt-60*	0.030 U	0.037U	0.015 U	0.037U	\	0.037 U	0.008 U
													Europium-152	0.078 U	0.081 U	\	\	\	0.076 U	\
													Europium-154	0.113 U	0.1 U	\	\	\	0.123 U	\
													Europium-155	0.091 U	0.094 U	\	\	\	0.101 U	\
													Nickel-63	3.34 U	3.49 U	\	\	\	3.53 U	\
													Plutonium-238	0.966 U	0.581 U	\	\	\	0.376 U	\
													Plutonium-239/240*	0.966 U	0.581 U	0.120 U	0.010U	\	0.376 U	0.026 U
													Potassium-40	14.1	14.8	\	\	\	14.1	\
													Radium-226	0.424	0.499	\	\	\	0.47	\

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Radium-228	0.589	0.76	\	\	\	0.683	\
													Silver-108m	0.022 U	0.021 U	\	\	\	0.025 U	\
													Thorium-228	0.615	0.715	\	\	\	0.793	\
													Thorium-232	0.589	0.76	\	\	\	0.683	\
													Strontium-90*	0.256 U	0.365 U	0.076 U	0.114U	\	0.314 U	0.309
													Tritium	4.22 U	4.77 U	\	\	\	5.35 U	\
													Uranium-235	0.158 U	0.133 U	\	\	\	0.149 U	\
													Uranium-238	3.79 U	3.94 U	\	\	\	4.05 U	\
													*These analytes were identified as COPCs.							

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Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
118-F-6	Burial Ground	100-FR-2	122 m x 61 m x 5.5 m (400 ft x 200 ft x 18 ft)	1965-1973	The site was an unlined burial ground that received animal and laboratory wastes related to the 100-F Area Experimental Animal Farm. The site dimensions were originally estimated at 122 m by 61 m by 5.5 m (400 ft by 200 ft by 18 ft) deep. The burial ground contained six unlined trenches in a north to south orientation.	Interim Closed Out	CVP-2008-00001	12-Dec-05	13-Dec-07	N/A	50,710	6.5	Americium-241	0.174 U	\	\	\	0.186 U	0.284 U	\
													Barium-133	0.039 U	\	\	\	\	0.045 U	\
													Carbon-14	\	\	\	\	3.64 U	\	\
													Cesium-137*	0.316	\	0.214	\	1.62	0.07	0.035
													Cobalt-60*	0.036 U	\	0.018 (ND)	\	0.032 U	0.038 U	0.013 U
													Curium-242	\	\	\	\	0.442 U	\	\
													Curium-243/244	\	\	\	\	0.601 U	\	\
													Europium-152*	0.087 U	\	0.043 (ND)	\	0.083 U	0.089 U	0.032 U
													Europium-154	0.12 U	\	\	\	0.108 U	0.117 U	\
													Europium-155	0.09 U	\	\	\	0.095 U	0.123 U	\
													Plutonium-238*	0.478 U	\	0.030 (ND)	\	0.353 U	0.309 U	0.04 U
													Plutonium-239/240*	0.364 U	\	0.016 (ND)	\	0.298 U	0.309 U	0.015 U
													Potassium-40	17.5	\	\	\	15.7	14.7	\
													Radium-226	0.565	\	\	\	0.416	0.506	\
													Radium-228	0.826	\	\	\	0.661	0.743	\
													Silver-108m	0.033 U	\	\	\	0.024 U	0.025 U	\
													Strontium-90*	4.13	\	2.701	\	0.462	1.32	0.286
													Thorium-228	0.791	\	\	\	0.568	0.832	\
													Thorium-232	0.826	\	\	\	0.661	0.743	\
													Tritium	\	\	\	\	4.6 U	\	\
													Uranium-233/234*	\	\	\	\	0.397	\	\
													Uranium-235	0.192 U	\	\	\	0.046 U	0.157 U	\
													Uranium-238*	5.33 U	\	\	\	0.391	4.21 U	\
													TPH	\	\	\	\	150 U	\	\
													Pesticides	\	\	\	\	0.014 U	\	\
													Bis (2-ethylhexyl) phthalate*	\	\	\	\	0.042	\	\
													*These analytes were identified as COCs in the SAP or represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list only includes SVOAs that were detected.							
118-F-7	Storage	100-FR-2	6.15 m x 3.80 m x 2.44 m (20.2 ft x 12.5 ft x 8 ft)	1945-1965	The site was an inactive solid waste storage vault used for temporary storage of slightly contaminated reactor parts that could be recovered and reused for the 100‑F Area reactor operations. The vault was a light-colored concrete box that extended approximately 46 cm (18 in.) above grade. It had a wooden lid that was covered with green rolled-roofing material. The lid was posted as Underground Radioactive Material. The site was not fenced.	Interim Closed Out	CVP-2006-00007	31-Jan-06	Apr-06	5-Jun-06	104	3							Max Focused Sample	95% UCL Overburden	95% UCL Staging Pile (ACL) Footprint
													Cesium-137	0.403	\	0.23 (ND)	\	0.11 U	0.059 U	0.205
													Cobalt-60	0.23	\	0.301	\	0.18 U	0.19 U	0.15 U
													Silver-108m	0.077	\	0.0351 (ND)	\	0.059 U	0.028 U	0.03 U
													Strontium-90	0.249	\	0.183	\	0.23 U	0.042 U	0.573
													Cadmium	0.21 U	\	0.21 (ND)	\	0.21 U	0.21 U	0.21 U
													Copper	12.5	\	12.2	\	11.3	10.8	369
													Lead	18.8	\	10.9	\	63.8	5.2	25.4
													Lead exceeded RAGs but RESRAD modeling indicated it was protective of the environment.							
118-F-8:1 (subsite)	Reactor	100-FR-1	Not Documented	1944-1965	This subsite included the reactor ancillary support areas, belowgrade structures, and underlying soils. The ancillary support areas consisted of the office areas, the reactor control room, tool storage rooms, restrooms, cooling water influent areas, changing rooms, ventilation equipment areas, and electrical systems areas. The reactor areas were divided into zones as described in the SAP. Subsite 118‑F-8:1 included zone 2 (valve pit); zone 3 (gas recirculation tunnel, solids feed area, flow laboratory basement, east water tunnel, and the trench under the accumulator room); and zone 4 (west inlet water tunnel, east inlet water tunnel, 315 exhaust plenum, 316 exhaust plenum, pipe tunnel, and southeast tunnel). Zone 1 requires additional remediation and will be included in a future CVP.	Interim Closed Out	CVP-2003-00017	CY 1999	Dec-03	N/A	22,131	Zone 2: 4.8 (concrete and soil)	Americium-241	0.01 U	\	0.0058U	\	\	\	\
														Barium-133	0.025 U	\	0.00903U	\	\	\	\
														Carbon-14	2.98	\	1.24	\	\	\	\
														Cesium-137	4.13	\	1.86	\	\	\	\
														Cobalt-60	0.336	\	0.137	\	\	\	\
														Europium-152	0.877	\	0.353	\	\	\	\
														Europium-154	0.114	\	0.0441U	\	\	\	\
														Europium-155	0.081	\	0.0524U	\	\	\	\
														Nickel-63	10.4	\	7.08	\	\	\	\
														Plutonium-238	0.153	\	0.0377U	\	\	\	\
														Plutonium-239/240	0.0156	\	0.0065	\	\	\	\
														Strontium-90	0.27	\	0.146	\	\	\	\
														Technetium-99	0.109	\	-0.196U	\	\	\	\
														Uranium-233/234	0.295	\	<BG	\	\	\	\
														Uranium-235	0.025	\	<BG U	\	\	\	\
														Uranium-238	0.26	\	<BG	\	\	\	\
														Chromium (hexavalent)	2.4 (shallow)	2.1	1.4 (shallow)	0.95	\	\	\
														Lead	93 (shallow)	59	41 (shallow)	34	\	\	\
														Mercury	0.45 (shallow)	0.22	0.15 (shallow)	0.11	\	\	\
														Aroclor-1016	0.033	34 (PQL)	0.033	34	\	\	\
														Aroclor-1254	0.36 (shallow)	34 (PQL)	0.2 (shallow)	34	\	\	\
														Aroclor-1260	0.17 (shallow)	62 (PQL)	\	62	\	\	\
													Zone 3: 4.4 (concrete and soil)	Americium-241	0.0277	\	0.00421	\	\	\	\
														Barium-133	0.0237	\	0.00523	\	\	\	\
														Cesium-137	0.741	\	0.141	\	\	\	\
														Cobalt-60	0.17	\	0.0383	\	\	\	\
														Europium-152	0.237	\	0.0227	\	\	\	\
														Europium-154	0.00982	\	0.00982	\	\	\	\
														Europium-155	0.679	\	0.0294	\	\	\	\
														Plutonium-238	0.0262	\	0.00307	\	\	\	\
														Plutonium-239/240	0.00931	\	0.00205	\	\	\	\
														Strontium-90	0.188	\	0.069	\	\	\	\
														Chromium (hexavalent)	17	1.7	4.9	1.7	\	\	\
														Lead	75	\	14	14	\	\	\

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100-F Area Waste Sites																				
												Zone 4: 6.1 (concrete)	Americium-241	\	0.238	\	0.0309	\	\	\
													Barium-133	\	0.285	\	0.065	\	\	\
													Cesium-137	\	2.18	\	7.41	\	\	\
													Cobalt-60	\	0.547	\	0.168	\	\	\
													Europium-152	\	26.6	\	3.21	\	\	\
													Europium-154	\	2.68	\	0.295	\	\	\
													Europium-155	\	0.105	\	0.0422	\	\	\
													Plutonium-238	\	0.0622	\	0.00988	\	\	\
													Plutonium-239/240	\	1.29	\	0.156	\	\	\
													Strontium-90	\	12.7	\	2.65	\	\	\
													Lead	\	60	\	22	\	\	\
118-F-8:2 (subsite)	Reactor	100-FR-1	82.7 m x 95.8 m x 28.3 m (271 ft x 314 ft x 93 ft)	1944-1965	This site is the 105-F Reactor core and ISS project. The primary objective of the 105-F Reactor ISS Project is to provide storage for up to 75 years with minimal maintenance required. The 0.9 to 1.5 m (3 to 5 ft) thick concrete walls and the welded door provide the security barrier for the facility.	Accepted	Wagoner et al., 1998	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
118-F-8:3 (subsite)	Reactor	100-FR-1	23.8 m x 21.6 m x 6.4 m (78 ft x 71 ft x 21 ft)	1944-1965	The FSB, located on the south side of the 105-F Building, was the underwater collection, storage, and transfer facility for irradiated fuel elements discharged from the reactor. This area includes the fuel element discharge pickup area, fuel storage area, fuel transfer area, and wash pad area. The waste was concrete and soil associated with the FSB. The primary source of contamination to the concrete structures and soils was sodium dichromate-treated reactor cooling water and FSB that became contaminated through contact with fuel elements and components from the reactor cooling system.	Interim Closed Out	CVP-2003-00017	CY 1999	1-Dec-03	N/A	22,132	6.4		Deep Soils (1 ft)	Deep Soils (8-10 ft)	Deep Soils (1 ft)	Deep Soils (8‑10 ft)			
													Americium-241	5.2	3.29	1.93	0.704	\	\	\
													Barium-133	1.1 U	0.36	0.203	0.0672	\	\	\
													Carbon-14	4.66	26.4	33.9	6.18	\	\	\
													Cesium-137	392	6.3	151	97.6	\	\	\
													Cobalt-60	34.1	463	10.4	1.96	\	\	\
													Europium-152	342	53.9	108	14.1	\	\	\
													Europium-154	45.3	6.67	13.7	1.84	\	\	\
													Europium-155	2.6 U	0.93	0.476	0.168	\	\	\
													Tritium	0.846	0.777	0.332	0.408	\	\	\
													Nickel-63	1170	112	362	40.5	\	\	\
													Plutonium-238	0.659	0.398	0.275	0.106	\	\	\
													Plutonium-239/240	17.1	5.42	7.27	1.43	\	\	\
													Strontium-90	235	67	87.5	15.1	\	\	\
													Uranium-233/234	0.542	0.486	<BG	<BG	\	\	\
													Uranium-235	0.131	0.052	<BG	<BG	\	\	\
													Uranium-238	0.643	0.535	<BG	<BG	\	\	\
													Chromium (hexavalent)	1	0.42	1	1.4	\	\	\
													Barium	52	44	46	38	\	\	\
													Lead	6.1	3.5	3.9	3.5	\	\	\
													Mercury	0.59	0.02	0.4	0.02	\	\	\
													Aroclor-1254	1100	35	0.38	0.036	\	\	\
													The list includes only those PBS that were detected.							
118-F-8:4 (subsite)	Unplanned Release	100-FR-1	23.8 m x 21.6 m x 6.4 m (78 ft x 71 ft x 21 ft)	1944-1965	This subsite consisted of an area of soil at the western boundary of the 118-F-8:3, FSB excavation. The FSB held dichromate-treated reactor cooling water and served as an underwater collection, storage, and transfer facility for irradiated fuel elements discharged from the reactor. The water was primarily contaminated by activated elements spilled into the FSB during fuel discharge; and fission products, uranium, and transuranics introduced by fuel cladding failures.	Interim Closed Out	CVP-2007-00004	14-Mar-07	22-Jun-07	N/A	3,491	8	Americium-241	0.165U	0.112	0.110 U	0.081	\	\	\
													Barium-133	0.051U	0.045	0.020 U	0.022 U	\	\	\
													Carbon-14	0U	0.523UJ	-0.325 U	0.070 U	\	\	\
													Cesium-137	0.315	6.62	0.281	4.52	\	\	\
													Cobalt-60	0.049U	0.274	0.019 U	0.186	\	\	\
													Europium-152	0.185	4.39	0.16	3.01	\	\	\
													Europium-154	0.161U	0.501U	0.061 U	0.181 U	\	\	\
													Europium-155	0.128U	0.116U	0.050 U	0.057 U	\	\	\
													Nickel-63	1.87U	26.1	1.26 U	18.7	\	\	\
													Plutonium-238	0.035U	0.077U	0.023 U	0.056 U	\	\	\
													Plutonium-239/240	0.062U	0.077	0.063 U	0.52	\	\	\
													Strontium-90	0.175U	3.21	0.151 U	2.2	\	\	\
													Tritium	3.04U	1.77UJ	2.85 U	1.38 U	\	\	\
													Uranium-233/234	0.579	0.564	0 <BG	0 <BG	\	\	\
													Uranium-235	0.034	0.12	0 <BG	0 <BG	\	\	\
													Uranium-238	0.521	0.677	0 <BG	0 <BG	\	\	\
													Barium	74.3	57.1	70.1	52.6	\	\	\
													Chromium (hexavalent)	0.26	0.32	\	0.26	\	\	\
													Lead	10.3	5.8	9	5.5	\	\	\
													Mercury	0.53	0.05	0.41	\	\	\	\
													Selenium	1.5	1.3U	\	\	\	\	\
													Aroclor-1260	0.014 U	0.049	\	\	\	\	\
													The list includes only the PCBs that were detected.							
118-F-9	Burial Ground	100-FR-2	45.7 m x 9.1 m (150 ft x 30 ft)	Not Documented	The site contains one trench that received undocumented miscellaneous solid wastes from animal research studies at the Experimental Animal Farm. It appears to have been backfilled and vegetation has reestablished itself. Historical aerial photography does not show a burial trench in the suspected area of the 118-F-9 waste site, with the exception of the trenches associated with the 100-F-20 waste site. Geophysical surveys performed in the area indicated three anomalous zones, which were excavated and determined to contain no indication of a former burial ground. Soil samples were collected from the site and showed no contamination. Based on the combination of geophysical data and sample results, the 118-F-9 Burial Ground does not appear to be located within the suspected area.	Rejected	WSRF 2006-048	N/A	N/A	23-Jan-06 21-Feb-06 (characteri-zation sampling)	N/A	N/A	Cesium-137	\	\	\	\	0.144	\	\
													Europium-152	\	\	\	\	0.532	\	\
													Gross Alpha	\	\	\	\	5.44	\	\
													Gross Beta	\	\	\	\	16	\	\
													Plutonium-239/240	\	\	\	\	0.055	\	\
													Potassium-40	\	\	\	\	13.6	\	\
													Radium-226	\	\	\	\	0.484	\	\
													Radium-228	\	\	\	\	0.65	\	\
													Thorium-228	\	\	\	\	0.626	\	\
													Thorium-232	\	\	\	\	0.65	\	\
													Strontium-90	\	\	\	\	0.885	\	\

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Aluminum	\	\	\	\	5090	\	\
													Antimony	\	\	\	\	0.42	\	\
													Arsenic	\	\	\	\	1.9	\	\
													Barium	\	\	\	\	125	\	\
													Beryllium	\	\	\	\	0.04	\	\
													Boron	\	\	\	\	6.4	\	\
													Cadmium	\	\	\	\	0.12	\	\
													Calcium	\	\	\	\	4760	\	\
													Chromium	\	\	\	\	7.3	\	\
													Cobalt	\	\	\	\	6.4	\	\
													Copper	\	\	\	\	14.3	\	\
													Iron	\	\	\	\	15400	\	\
													Lead	\	\	\	\	5.2	\	\
													Magnesium	\	\	\	\	3270	\	\
													Manganese	\	\	\	\	278	\	\
													Mercury	\	\	\	\	0.02 U	\	\
													Molybdenum	\	\	\	\	0.47	\	\
													Nickel	\	\	\	\	9.2	\	\
													Potassium	\	\	\	\	1170	\	\
													Selenium	\	\	\	\	0.39 U	\	\
													Silicon	\	\	\	\	672	\	\
													Silver	\	\	\	\	0.15 U	\	\
													Sodium	\	\	\	\	187	\	\
													Vanadium	\	\	\	\	40.6	\	\
													Zinc	\	\	\	\	35.4	\	\
													Bromide	\	\	\	\	9.1 U	\	\
													Chloride	\	\	\	\	18.3	\	\
													Cyanide	\	\	\	\	0.62 U	\	\
													Fluoride	\	\	\	\	9.1 U	\	\
													Nitrate	\	\	\	\	10.4	\	\
													Nitrite	\	\	\	\	9.06 U	\	\
													Phosphate	\	\	\	\	9.1 U	\	\
													Sulfate	\	\	\	\	31.9	\	\
													Sulfide	\	\	\	\	39.4 U	\	\
													Pesticides	\	\	\	\	U	\	\
													Bis(2-ethylhexyl)phthalate	\	\	\	\	0.079 JB	\	\
													The list includes only the SVOAs that were detected.							

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation: Max Concentration (pCi/g, mg/kg) Shallow[a]	Excavation: Max Concentration (pCi/g, mg/kg) Deep[b]	Excavation: 95% UCL (pCi/g, mg/kg) Shallow[a]	Excavation: 95% UCL (pCi/g, mg/kg) Deep[b]	Excavation: Focused or Discrete Max (pCi/g, mg/kg)	Overburden/Stockpile or Staging Pile: Max Concentration (pCi/g, mg/kg)	Overburden/Stockpile or Staging Pile: 95% UCL (pCi/g, mg/kg)
100-F Area Waste Sites																				
120-F-1	Trench	100-FR-2	7.62 m x 2.44 m x 1.22 m (25 ft x 8 ft x 4 ft)	Not Documented	This waste site was originally described as a single, open trench filled with fluorescent tubes, incandescent light bulbs, instrument vacuum tubes, small alkaline batteries, chemical bottles, and laboratory apparatus, with a second area of disturbed soil with surficial plastic debris approximately 46 m (150 ft) to the southeast. Prior to remediation, the original access road was overgrown with 0.9 m (3 ft) high sagebrush, indicating that the site had not been used for many years. The site was interim stabilized on March 23, 1998. The trench was covered with 30 sheets of plywood to provide a demarcation layer to aid future remediation. A protective layer of soil, from material mounded to the side of the trench during the original excavation, was placed over the plywood in a layer approximately 0.2 to 0.6 m (0.6 to 2 ft) deep. The site was further protected by a barrier attached to metal posts and warning signs.	Interim Closed Out	WSRF 2008-028	Sep-07	Sep-07	03-Dec-07 17-Dec-07 18-Mar-08	3,297	6.5		Southeast	Northwest	95% UCL Southeast	95% UCL Northwest			
													Aluminum	6690 C	7520	\	\	\	\	\
													Antimony	0.95 U	0.91	\	\	\	\	\
													Arsenic	3.3	3.0	2.9	2.5	\	\	\
													Barium	72	81	58.2	65.8	\	\	\
													Beryllium	0.99	0.34	0.73	0.26	\	\	\
													Boron	5.6	2	4.6	1.6	\	\	\
													Cadmium	0.16 U	0.14 U	\	\	\	\	\
													Calcium	7250 C	5060	\	\	\	\	\
													Chromium (total)	8.1	13	7.4	11.7	\	\	\
													Cobalt	6.1	8.5	5.3	7.1	\	\	\
													Copper	13.3	13.3	12.6	12.2	\	\	\
													Chromium (hexavalent)	1.8	0.3	\	\	\	\	\
													Iron	19900	24600	\	\	\	\	\
													Lead	11.1	4.4	6.1	2.9	\	\	\
													Magnesium	4100	4370	\	\	\	\	\
													Manganese	314	378	259	318	\	\	\
													Mercury	0.65	0.01 U	\	\	\	\	\
													Molybdenum	0.85	0.87 U	\	\	\	\	\
													Nickel	10.5	13	9.3	11.8	\	\	\
													Potassium	1210	1400	\	\	\	\	\
													Selenium	1.9 U	1.8 U	\	\	\	\	\
													Silicon	3200	543	\	\	\	\	\
													Silver	0.32 U	0.29 U	\	\	\	\	\
													Sodium	430 C	174	\	\	\	\	\
													Vanadium	49.7	67.7	38.5	53.9	\	\	\
													Zinc	47.1 C	42.5	37.5	37.3	\	\	\
													Bromide	2.7 U	2.7 U	\	\	\	\	\
													Chloride	34	7.6	\	\	\	\	\
													Cyanide	0.51 U	\	\	\	\	\	\
													Fluoride	3.9	2.7 U	\	\	\	\	\
													Nitrate	18.6	25.3	\	\	\	\	\
													Nitrite	2.73 U	2.68 U	\	\	\	\	\
													Phosphate	46.5	2.7 U	\	\	\	\	\
													Sulfate	8410 D	13.4	\	6.4	\	\	\
													Sulfide	23.7 U	\	\	\	\	\	\
													TPH	146 U	144 U	\	\	\	\	\
													Aroclor-1254	0.023	0.014 U	\	\	\	\	\
													Aroclor-1260	0.01	0.014 U	\	\	\	\	\
													Bis(2-ethylhexyl) phthalate	0.20	0.10	0.11	0.12	\	\	\
													Dibenz(a,h) anthracene	0.025	0.35 U	\	\	\	\	\
													Di-n-butylphthalate	0.36 U	0.027	\	\	\	\	\
													Alpha-Chlordane	0.01	0.0021	\	\	\	\	\
													Gamma-Chlordane	0.013	0.0022	\	\	\	\	\
													DDE	0.0018	0.0014 U	\	\	\	\	\
													DDT	0.0021	0.0014 U	\	\	\	\	\
													Endosulfan I	0.0018	0.0014 U	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis during verification sampling and are subsequently considered as COPCs. The list only includes those PCBs, pesticides, and SVOAs that were detected.							
126-F-1	Coal Ash Pit	100-FR-2	329 m x 170.8 m (1079 ft x 560 ft) North Portion 329 m x 118.6 m (1079 ft x 389 ft) South Portion	1944-1965	The ash pit was the result of the 100-F Area coal-fired steam plant that operated between 1944 and 1965. Coal ash contains various amounts of fly ash, bottom ash, and boiler slag. Unknown amounts of coal ash from the 184-F Powerhouse were sluiced to this unit with raw river water. The ash has been analyzed using the EP Toxicity Test in accordance with WAC 173-303, and no hazardous materials were found. This site also received low-level radionuclides from effluent system leakage.	Interim Closed Out	CVP-2002-00004	5-Oct-01	17-Jun-02	21-May-01 18-Jun-01 15-Jul-02 thru 17-Jul-02	100,964	4		South	North	95% UCL South	95% UCL North			
													Cobalt-60	1.63	0.1	0.27	0.041	\	0.081	0.035
													Cesium-137	1.41	1.12	0.39	0.39	\	0.197	0.097
													Europium-152	15.3	2.7	3.5	0.66	\	0.956	0.29
													Europium-154	1.9	0.247	0.45	0.091	\	0.18 U	0.077
													Europium-155	0.8 U	0.32	0.11	0.12	\	0.14 U	0.054

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
126-F-2	Dumping Area	100-FR-1	228.9 m x 41.2 m (751 ft x 135 ft) 232 m x 65 m (761 ft x 213 ft)	1945-1965	The unit consisted of covered, reinforced concrete basins, having a capacity of about 3.7E+07 L (1E+07 gal), separated in the center by a pump room. Originally, the site was used to store river water being processed for reactor coolant. Beginning in the 1970s, this site received demolition rubble and inert waste from demolition of buildings 183-F, 190-F, 189‑F, 185-F, and 171‑F. Site remediation consisted of the removal of debris within the eastern clearwell structure down to the concrete floor. Excavated material was staged onsite before disposal at the ERDF. Radiological surveys and visual inspection of the remediated clearwell structure revealed no residual contamination on the concrete floor or sidewalls, and no indication of possible contaminant migration beyond the boundaries of the clearwells. Verification sampling was performed at the remediation waste staging area to confirm that no residual contamination associated with excavated materials existed in surficial soils.	Interim Closed Out	WSRF 2006-017	Jul-05	Sep-05	14-Dec-05	28,986	Concrete Surface	Americium-241	0.33 U	\	\	\	\	\	\
													Carbon-14	3.2 UJ	\	\	\	\	\	\
													Cesium-137*	0.071	\	\	\	\	\	\
													Cobalt-60	0.038 U	\	\	\	\	\	\
													Europium-152	0.14 U	\	\	\	\	\	\
													Europium-154	0.13 U	\	\	\	\	\	\
													Europium-155	0.15 U	\	\	\	\	\	\
													Gross alpha	10.4	\	\	\	\	\	\
													Gross beta	20	\	\	\	\	\	\
													Plutonium-238	0.19 U	\	\	\	\	\	\
													Plutonium-239/240	0.19 U	\	\	\	\	\	\
													Potassium-40	13.8	\	\	\	\	\	\
													Radium-226	0.516	\	\	\	\	\	\
													Radium-228	0.709	\	\	\	\	\	\
													Silver-108m	0.029 U	\	\	\	\	\	\
													Thorium-228	0.651	\	\	\	\	\	\
													Thorium-232	0.709	\	\	\	\	\	\
													Tritium	2.5 UJ	\	\	\	\	\	\
													Uranium-233/234	0.532	\	\	\	\	\	\
													Uranium-235	0.27 U	\	\	\	\	\	\
													Uranium-238	0.761	\	\	\	\	\	\
													Aluminum	6290	\	\	\	\	\	\
													Antimony*	0.48 J	\	\	\	\	\	\
													Arsenic*	3	\	\	\	\	\	\
													Barium*	82.4	\	\	\	\	\	\
													Beryllium*	0.3	\	\	\	\	\	\
													Boron*	5.6	\	\	\	\	\	\
													Cadmium	0.07 U	\	\	\	\	\	\
													Calcium	6730	\	\	\	\	\	\
													Chromium (total)*	10.9	\	\	\	\	\	\
													Cobalt*	6.2	\	\	\	\	\	\
													Copper*	17.4 J	\	\	\	\	\	\
													Hexavalent Chromium	0.21 U	\	\	\	\	\	\
													Iron	17500	\	\	\	\	\	\
													Lead*	17.2 J	\	\	\	\	\	\
													Magnesium	3930	\	\	\	\	\	\
													Manganese*	274	\	\	\	\	\	\
													Mercury	0.02 U	\	\	\	\	\	\
													Molybdenum*	0.39	\	\	\	\	\	\
													Nickel*	10.3	\	\	\	\	\	\
													Potassium	1210	\	\	\	\	\	\
													Selenium*	0.37	\	\	\	\	\	\
													Silicon	346 J	\	\	\	\	\	\
													Silver	0.14 U	\	\	\	\	\	\
													Sodium	158	\	\	\	\	\	\
													Vanadium*	41.6	\	\	\	\	\	\
													Zinc*	76.9	\	\	\	\	\	\
													Aroclor-1254*	0.074	\	\	\	\	\	\
													Acenaphthene*	0.17 JD	\	\	\	\	\	\
													Anthracene*	0.41 JD	\	\	\	\	\	\
													Benzo(a) anthracene*	0.76 JD	\	\	\	\	\	\
													Benzo(a)pyrene*	0.7 JD	\	\	\	\	\	\
													Benzo(b) fluoranthene*	0.56 JD	\	\	\	\	\	\
													Benzo(ghi) perylene*	0.27 JD	\	\	\	\	\	\
													Benzo(k) fluoranthene*	0.76 JD	\	\	\	\	\	\
													Chrysene*	0.84 JD	\	\	\	\	\	\
													Dibenz(a,h) anthracene*	0.2 JD	\	\	\	\	\	\
													Fluoranthene*'	1.8 JD	\	\	\	\	\	\
													Fluorene*	0.21 JD	\	\	\	\	\	\
													Indeno(1,2,3-cd)pyrene*	0.26 JD	\	\	\	\	\	\
													Phenanthrene*	1.6 JD	\	\	\	\	\	\
													Pyrene*	1.8 JD	\	\	\	\	\	\
													TPH*	1650 J	\	\	\	\	\	\
													*The above analytes represent those contaminants detected by laboratory analysis and are subsequently considered as COPCs. The list includes only the PCBs and PAHs that were detected.							
128-F-1	Burn Pit	100-FR-2	30.5 m x 30.5 m (100 ft x 100 ft)	1945-1965	The site was used to dispose of nonradioactive, combustible materials, such as paint waste, office waste, and chemical solvents. from the 100-F Area. The site has been backfilled. The site has been evaluated and determined to meet RAOs.	No Action	WSRF 2003-35	N/A	N/A	28-Apr-03 (Confirmatory sampling)	N/A	1.8 (sampling depth)	Americium-241	0.42 U	\	\	\	\	\	\
													Cesium-137	0.051 U	\	\	\	\	\	\
													Cobalt-60	0.048 U	\	\	\	\	\	\
													Europium-152	0.1 U	\	\	\	\	\	\
													Europium-154	0.16 U	\	\	\	\	\	\
													Europium-155	0.15 U	\	\	\	\	\	\
													Gross alpha	5.37	\	\	\	\	\	\
													Gross beta	19.3	\	\	\	\	\	\

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Potassium-40	17.6	\	\	\	\	\	\
													Radium-226	0.544	\	\	\	\	\	\
													Radium-228	0.731	\	\	\	\	\	\
													Thorium-228	0.653	\	\	\	\	\	\
													Thorium-232	0.731	\	\	\	\	\	\
													Uranium-235	0.20 U	\	\	\	\	\	\
													Uranium-238	5.7 U	\	\	\	\	\	\
													Arsenic*	2.1	\	\	\	\	\	\
													Barium*	67.4	\	\	\	\	\	\
													Cadmium	0.04 U	\	\	\	\	\	\
													Chromium (total)*	12.1	\	\	\	\	\	\
													Chromium (hexavalent)	0.42 U	\	\	\	\	\	\
													Lead*	3.1	\	\	\	\	\	\
													Mercury	0.02 U	\	\	\	\	\	\
													Selenium	0.4 U	\	\	\	\	\	\
													Silver	0.08 U	\	\	\	\	\	\
													TPH*	4.4	\	\	\	\	\	\
													Asbestos	ND	\	\	\	\	\	\
													PCBs	0.035 U	\	\	\	\	\	\
													SVOAs	U	\	\	\	\	\	\
													beta-BHC*	0.0038	\	\	\	\	\	\
													*COPCs represent contaminants present at concentrations exceeding laboratory detection limits. The list includes only the pesticides that were detected.							

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
128-F-2	Burn Pit	100-FR-1	45.7 m x 18.3 m (150 ft x 60 ft)	1945-1965	The pit was an irregularly shaped depression that was used for burning wastes. Nonradioactive, combustible materials (e.g., vegetation, office waste, paint waste, and chemical solvents) have been burned at the site. There were also some large metal materials present at the site, such as hardware, machinery, and other noncontaminated miscellaneous equipment, and vitrified clay pipe.	Interim Closed Out	WSRF 2008-031	17-Aug-05	11-Dec-07	Area A 28-Feb-07 01-Mar-07 05-Mar-08 Area B 06-Mar-07 16-Aug-07	34,540	6		Area A	Area B	Area A	Area B			
													Americium-241	0.66 U	0.35 U	\	\	\	\	\
													Cesium-137*	0.218	0.12 U	\	\	\	\	\
													Cobalt-60	0.14 U	0.12 U	\	\	\	\	\
													Europium-152	0.34 U	0.29 U	\	\	\	\	\
													Europium-154	0.48 U	0.39 U	\	\	\	\	\
													Europium-155	0.27 U	0.27 U	\	\	\	\	\
													Gross alpha	20.5	11.7	\	\	\	\	\
													Gross beta	28.6	23.2	\	\	\	\	\
													Potassium-40	34.2	15.1	\	\	\	\	\
													Radium-226	0.944	0.589	\	\	\	\	\
													Radium-228	2.36	1.28	\	\	\	\	\
													Silver-108m	0.092 U	0.081 U	\	\	\	\	\
													Thorium-228	2.66	0.813	\	\	\	\	\
													Thorium-232	2.36	1.28	\	\	\	\	\
													Uranium-235	0.39 U	0.4 U	\	\	\	\	\
													Uranium-238	16 U	14 U	\	\	\	\	\
													Aluminum	8360	7290 C	\	\	\	\	\
													Antimony*	0.92	1 U	\	\	\	4.2	\
													Arsenic*	5.8	4.1	4.4	3.5	\	5.2	\
													Barium*	102	81.5 C	84.9	72.9	\	68.2	\
													Beryllium*	0.3	0.44	0.26	0.39	\	\	\
													Boron*	3	2.7	1.8	2.1	\	\	\
													Cadmium*	0.22 C	0.09 U	\	\	\	\	\
													Calcium	11100	16600 C	\	\	\	\	\
													Chromium (total)*	32.6	42.4 C	23.5	26.7	\	32.2	\
													Cobalt*	6.7	6.9	6	6.4	\	6.3	\
													Copper*	33.9	110	23.4	39.6	\	23.9	\
													Chromium (hexavalent)*	1.4	2.9	0.53	0.8	\	0.73	\
													Iron	18200	20000 C	\	\	\	\	\
													Lead*	17.5	26.4	9	10.8	\	24.8	\
													Magnesium	6210	6450 C	\	\	\	\	\
													Manganese*	406 C	306 C	304	275	\	277	\
													Mercury*	0.04	0.07	\	\	\	0.05	\
													Molybdenum*	0.82 U	0.67	\	\	\	1.3	\
													Nickel*	21.2	13.8	16.7	13	\	11.7	\
													Potassium	1680	1740	\	\	\	\	\
													Selenium	1.6 U	1.2 U	\	\	\	\	\
													Silicon	614	706 C	\	\	\	\	\
													Silver	0.29 U	0.29 U	\	\	\	\	\
													Sodium	566 C	593 C	\	\	\	\	\
													Vanadium*	39.5	152 U	34.2	\	\	42.7	\
													Zinc*	62.1 C	54.8	47.2	38.7	\	124	\
													Bis(2-ethylhexyl) phthalate*	0.085	0.08	\	\	\	\	\
													Dibenz(a,h)anthracene*	0.048	0.143	\	\	\	\	\
													Aldrin*	0.0022 D	0.0017 D	\	\	\	\	\
													Beta-BHC*	0.0047 D	0.027 D	\	\	\	\	\
													Chlordane*	0.015 U	0.0101 D	\	\	\	\	\
													4,4'-DDD*	0.015 U	0.003 D	\	\	\	\	\
													4,4'-DDE*	0.005 D	0.0064 D	\	\	\	0.0022	\
													4,4'-DDT*	0.0055 D	0.045 D	\	\	\	0.0066	\
													Endrin aldehyde*	0.0051	0.0261 D	\	\	\	\	\
													Endosulfan*	0.015 U	0.0061 D	\	\	\	\	\
													Heptachlor*	0.0033	0.0013 UD	\	\	\	\	\
													Aroclor-1254*	0.015 U	0.044	\	\	\	0.048	\
													TPH*	152 U	65.9 C	\	\	\	\	\
													Acenaphthene*	U	0.063 J	\	\	\	0.027	\
													Anthracene*	U	0.12 J	\	\	\	0.06	\
													Benzo(a) anthracene*	U	0.35	\	\	\	0.32	\
													Benzo(a) pyrene*	U	0.29 J	\	\	\	0.28	\
													Benzo(b) fluoranthene*	U	0.23 J	\	\	\	0.21	\
													Benzo(ghi)perylene*	U	0.19 J	\	\	\	0.16	\
													Benzo(k) fluoranthene*	U	0.3 J	\	\	\	0.23	\
													Carbazole*	U	0.062 J	\	\	\	0.03	\
													Chrysene*	U	0.39	\	\	\	0.37	\
													Diethylphthalate*	U	0.099 J	\	\	\	\	\
													Dimethylphthalate*	U	0.021 J	\	\	\	\	\
													Fluoranthene*	U	0.79	\	\	\	0.67	\
													Fluorene*	U	0.046 J	\	\	\	0.019	\
													Indeno(1,2,3-cd) pyrene*	U	0.18 J	\	\	\	0.15	\
													Phenanthrene*	U	0.52	\	\	\	0.31	\
													Pyrene*	U	0.84	\	\	\	0.79	\

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													*COPCs represent contaminants present at concentrations exceeding laboratory detection limits. The list includes only the SVOAs, pesticides, PCBs, and PAHs that were detected.							

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Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
128-F-3	Burn Pit	100-FR-2	30.5 m x 30.5 m (100 ft x 100 ft)	Not Documented	The site was used as a burn pit associated with the 100-F Experimental Animal Farm. The site was overlain by coal ash from the 126-F-1 waste site. A housekeeping action was performed to remove the coal ash.	Interim Closed Out	WSRF 2006-042	20-Sep-05	20-Sep-05	10-Apr-06 11-Apr-06	690	1.1	Aluminum	7100	\	\	\	\	5930	\
													Antimony	1.5 UJ	\	\	\	\	1.5 UJ	\
													Arsenic*	3.2	\	2.5	\	\	2.0 U	\
													Barium*	290 C	\	261	\	\	141 C	\
													Beryllium*	0.62	\	0.5	\	\	0.58	\
													Boron*	21.8	\	42.4	\	\	5.5	\
													Cadmium*	0.26	\	\	\	\	0.27	\
													Calcium	6320 C	\	\	\	\	3870 C	\
													Chromium (total)*	69.3	\	25.8	\	\	9.8 C	\
													Chromium (hexavalent)	2.3 UD	\	\	\	\	0.23 U	\
													Cobalt*	7.2	\	6.3	\	\	6.6	\
													Copper*	25.7	\	21.1	\	\	11.6	\
													Iron	18400	\	\	\	\	18300	\
													Lead*	5.7	\	4.5	\	\	8.3	\
													Magnesium	3730	\	\	\	\	3440	\
													Manganese*	350	\	293	\	\	331	\
													Mercury*	0.03	\	\	\	\	0.02 U	\
													Molybdenum	0.96 U	\	\	\	\	0.96 U	\
													Nickel*	12.5	\	10.9	\	\	9.2	\
													Potassium	1290 C	\	\	\	\	1340 C	\
													Selenium	1.6 U	\	\	\	\	1.5 U	\
													Silicon	584 J	\	\	\	\	392 J	\
													Silver	0.28 UJ	\	\	\	\	0.23 UC	\
													Sodium	301	\	\	\	\	120	\
													Vanadium*	52.4	\	41.7	\	\	46.4	\
													Zinc*	59.6 C	\	42.8	\	\	44.8 C	\
													Aldrin*	0.00056 JD	\	\	\	\	0.0015 UD	\
													Alpha-Chlordane*	0.0028 D	\	\	\	\	0.0015 UD	\
													beta-BHC*	0.0054 D	\	0.003	\	\	0.0015 UD	\
													4,4'-DDD*	0.0043 D	\	\	\	\	0.0015 UD	\
													4,4'-DDE*	0.0023 D	\	\	\	\	0.0015 UD	\
													4,4'-DDT*	0.0016 JD	\	\	\	\	0.0015 UD	\
													Endosulfan I*	0.0016 D	\	\	\	\	0.0015 UD	\
													Endosulfan sulfate*	0.0058 D	\	\	\	\	0.0015 UD	\
													Endrin ketone*	0.003 D	\	\	\	\	0.0015 UD	\
													gamma-BHC (lindane)*	0.0013 JD	\	\	\	\	0.0015 UD	\
													Heptachlor epoxide*	0.00055 JD	\	\	\	\	0.0015 UD	\
													Methoxychlor*	0.0098 JD	\	\	\	\	0.0015 UD	\
													2-Butanone*	0.005 J	\	\	\	\	0.011 U	\
													2-Hexanone*	0.008 JB	\	\	\	\	0.011 U	\
													4-Methyl-2-pentanone*	0.008 JB	\	\	\	\	0.011 U	\
													Acetone*	0.009 J	\	\	\	\	0.009 J	\
													Chlorobenzene*	0.008 B	\	\	\	\	0.006 U	\
													Chloroform*	0.005 JB	\	0.005	\	\	0.004 JB	\
													Ethylbenzene*	0.002 J	\	\	\	\	0.006 U	\
													Methylene chloride*	0.033 B	\	0.016	\	\	0.009 B	\
													Styrene*	0.004 JB	\	\	\	\	0.006 U	\
													Tetrachloroethene*	0.001 J	\	\	\	\	0.006 U	\
													Xylenes (total)*	0.007 B	\	\	\	\	0.006 U	\
													*The analytes represent those contaminants detected by laboratory analysis during verification sampling and are subsequently considered as COPCs. The list only includes pesticides and VOAs that were detected.							
132-F-1	Laboratory	100-FR-1	67.9 m x 35.4 m (223 ft x 116 ft)	1949-1977	This site was the former 141-F Chronic Feeding Sheep Barn that was part of the Experimental Animal Farm. The building was an L-shaped concrete block building with a concrete floor and concrete animal pens located both inside and outside the building. Up to 1,000 head of sheep were kept in the barn for use in dose studies using iodine-131, strontium-90, plutonium-239, and cesium-137. Most of the work performed involved 20-year lifetime exposure studies. The 141-F Building was one of the main facilities used to house the animals. The building was demolished in 1977.	Interim Closed Out	WSRF 2006-029	9-Aug-05	12-Aug-05	N/A	8,681	1	Strontium-90*	0.36 U	\	\	\	\	0.005 U	\
													4,4-DDT	0.0016 UD	\	\	\	\	0.0027	\
													alpha-Chlordane*	0.0027	\	\	\	\	0.0015 UD	\
													beta-BHC*	0.0018	\	\	\	\	0.0015 UD	\
													gamma-Chlordane*	0.0034	\	\	\	\	0.0015 UD	\
													2-Methylnaphthalene*	0.17 J	\	\	\	\	0.77 UD	\
													Anthracene	0.34 U	\	\	\	\	0.27 JD	\
													Benzo(a) anthracene*	0.088 J	\	\	\	\	0.53 JD	\
													Benzo(a)pyrene*	0.11 J	\	\	\	\	1.1 D	\
													Benzo(b) fluoranthene*	0.093 J	\	\	\	\	0.84 D	\
													Benzo(g,h,i) perylene*	0.039 J	\	\	\	\	0.76 JD	\
													Benzo(k) fluoranthene*	0.12 J	\	\	\	\	0.78 D	\
													Chrysene*	0.12 J	\	\	\	\	2.1 D	\
													Dibenzo(a,h) anthracene	0.35 U	\	\	\	\	0.26 JD	\
													Dibenzofuran*	0.044 J	\	\	\	\	0.77 UD	\
													Fluoranthene*	0.11 J	\	\	\	\	0.17 JD	\
													Indeno(1,2,3-cd) pyrene*	0.043 J	\	\	\	\	0.62 JD	\
													Naphthalene*	0.24 J	\	\	\	\	0.77 UD	\
													Phenanthrene*	0.068 J	\	\	\	\	0.12 JD	\
													Pyrene*	0.12 J	\	\	\	\	0.27 JD	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes only the pesticides and SVOAs that were detected.							

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
132-F-2	Laboratory	100-FR-1	301.9 m^2 (3,250 ft^2)	Not Documented	The site was a laboratory that was part of the Experimental Animal Farm. The laboratory was used for particulate exposure experiments and for a series of studies on the effects of ionizing radiation on dogs. Between 300 and 400 beagles were housed at the nearby dog kennels during the studies. The primary isotopes used for the dog studies were plutonium-239 and radium-226. The 144-F animal pens were decontaminated, demolished, and buried in the 182 ·F Reservoir in either fiscal year 1977 or fiscal year 1978. The 144-F Building was decontaminated, demolished, and buried in the 183-F Clearwells during fiscal year 1979.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
132-F-3	Burial Ground	100-FR-1	51.2 m x 29.9 m x 6.1 m (168 ft x 98 ft x 20 ft)	1943-1965	This site was the former 115-F Gas Recirculation Facility, which was demolished and disposed in-place and covered with 1.2 m (3.9 ft) of clean backfill in 1984. Using the greatest activities from the characterization data from the original decommissioning activities to represent residual contamination levels over 100 percent of the inner surface area of the former facility, RESRAD modeling was performed in 2003 to support the previous decision to demolish and bury the facility in place. The RESRAD modeling predicts that the site achieves the dose limits and risk objective for rural residential land use, groundwater protection, and river protection.	No Action	WSRF 2003-25	Jul-84 (Demolition)	Oct-84 (Demolition)	N/A	N/A	Concrete	Carbon-14	8400	\	\	\	\	\	\
													Cesium-137	120	\	\	\	\	\	\
													Cobalt-60	20	\	\	\	\	\	\
													Europium-152	7	\	\	\	\	\	\
													Europium-154	4	\	\	\	\	\	\
													Strontium-90	16	\	\	\	\	\	\
													Tritium	570	\	\	\	\	\	\
132-F-4:1 (subsite)	Reactor Stack	100-FR-1	61 m (200 ft) high with a base diameter of 5.05 m (16.6 ft) and a maximum thickness of 0.46 m (18 in.) at the base.	1944-1965	The site consists of the 116-F Reactor Stack. The stack was a reinforced concrete structure and rested on a double octagon-shaped base (132-F-4:2 subsite) which extended 5.3 m (17.5 ft) belowgrade. The interior of the unit contained 4.2 microcuries of radioactive materials. This unit was demolished in September 1983 and buried in a trench between the 117-F Building Site and the 115-F Building Site. The trench was backfilled and covered with a 1 m (3 ft) layer of soil. RESRAD modeling was performed in 2003 to provide another data point. The RESRAD modeling accounted for radioactive decay from 1980 (the year of sample collection) to 2003, and predicted that none of the contaminants detected in the concrete from the interior of the stack would reach groundwater within 1,000 years.	No Action	WSRF-2003-23	1980 (sample collected) pre-decontamination	N/A	N/A	Buried in place	Concrete	Carbon-14	140	\	\	\	\	\	\
													Cesium-137	64	\	\	\	\	\	\
													Cobalt-60	10	\	\	\	\	\	\
													Europium-152	8	\	\	\	\	\	\
													Europium-154	ND	\	\	\	\	\	\
													Plutonium-239	0.9	\	\	\	\	\	\
													Strontium-90	26	\	\	\	\	\	\
													Tritium	11	\	\	\	\	\	\
132-F-4:2 (subsite)	Burial Ground	100-FR-1	5.6 m (18.5 ft) diameter octagon extending to 7.2 m (23.5 ft) below grade	1944-1965	Subsite 2 consists of the (116-F) Reactor Stack Base. The 116-F Reactor Stack Base was buried in place. External piping and the upper 1 m (3.3 ft) of internal piping were removed during the demolition of the 116-F stack and 105-F Building walls. Cast iron pipe remains imbedded in the stack base, but the potential contamination is deemed negligible. The site was reclassified No Action based on a RESRAD analysis of the stack residual contamination as a worst case scenario. This stack base is analogous to that at the 105-D Reactor. The 132-D-4 (116-D) Reactor Stack concrete base and foundation, including the imbedded cast iron drain line, was closed with the 105-D Reactor Cleanup Verification Package.	No Action	WSRF 2005-043	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
132-F-5	Burial Ground	100-FR-1	16.76 m x 7.01 m (55 ft x 23 ft)	1960-1965	This site is the former 117-F Filter Building, which was demolished in 1983. The rubble was buried in-place under at least 1 m (3.3 ft) of clean fill. Using the greatest activities from the characterization data from the original decommissioning activities to represent residual contamination levels over 100 percent of the inner surface area of the former facility, RESRAD modeling was performed in 2003 to support the previous decision to demolish and bury the facility in place. The RESRAD modeling predicts that the site achieves the dose limits and risk objective for rural residential land use, groundwater protection, and river protection.	No Action	WSRF 2003-29	1-Nov-83	1-Nov-83		N/A	Surface smears	Carbon-14	6	\	\	\	\	\	\
													Cesium-137	8	\	\	\	\	\	\
													Cobalt-60	8	\	\	\	\	\	\
													Europium-152	37	\	\	\	\	\	\
													Europium-154	5	\	\	\	\	\	\
													Strontium-90	10	\	\	\	\	\	\
132-F-6	Pump Station	100-FR-1	15.2 m x 15.2 m (50 ft x 50 ft)	1944-1965	This site is the former 1608-F Facility, which was a lift station to pump effluent to the 107-F Retention Basin. The facility was demolished and buried in-place under at least 5 m (16.4 ft) of clean backfill. Using the greatest activities from the characterization data from the original decommissioning activities to represent residual contamination levels over 100 percent of the inner surface area of the former facility, RESRAD modeling was performed in 2003 to support the previous decision to demolish and bury the facility in place. The RESRAD modeling predicts that the site achieves the dose limits and risk objective for rural residential land use, groundwater protection, and river protection.	No Action	WSRF 2003-32	1-Aug-87	1-Aug-83	N/A	N/A	Concrete	Carbon-14	883	\	\	\	\	\	\
													Cesium-137	1990	\	\	\	\	\	\
													Cobalt-60	1250	\	\	\	\	\	\
													Europium-152	2650	\	\	\	\	\	\
													Europium-154	461	\	\	\	\	\	\
													Strontium-90	13200	\	\	\	\	\	\
													Tritium	888	\	\	\	\	\	\

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
141-C	Laboratory	100-FR-1	35.4 m x 6.1 m x 2.4 m (116 ft x 20 ft x 7.87 ft)	1958-1976	The site was the former large animal barn and biology laboratory. Primary isotopes used in experimentation were iodine-131, strontium-90, cesium-137, ruthenium-106, and plutonium-239.	Interim Closed Out	WSRF 2006-027	9/1/2004 (confirmatory sampling) remediation activities not dated.	30-Jan-06	30-Jan-06	1,993	1	Americium-241	0.54 U	\	\	\	\	0.17 U	\
													Cesium-137*	0.059	\	0.036	\	\	0.041	\
													Cobalt-60	0.065 U	\	\	\	\	0.03 U	\
													Europium-152	0.42 U	\	\	\	\	0.079 U	\
													Europium-154	0.54 U	\	\	\	\	0.095 U	\
													Europium-155	0.3 U	\	\	\	\	0.097 U	\
													Potassium-40	26.3	\	\	\	\	12.9	\
													Radium-226	0.988	\	\	\	\	0.54	\
													Radium-228	1.4	\	\	\	\	0.77	\
													Silver-108m	0.099 U	\	\	\	\	0.021 U	\
													Thorium-228	1.3	\	\	\	\	0.641	\
													Thorium-232	1.4	\	\	\	\	0.77	\
													Strontium-90*	1.7	\	0.49	\	\	0.31 U	\
													Tritium	3.2 UJ	\	\	\	\	3.0 UJ	\
													Uranium-235	0.44 U	\	\	\	\	0.12 U	\
													Uranium-238	17 U	\	\	\	\	3.7 U	\
													Aluminum	6910	\	\	\	\	5170	\
													Antimony	1.3 UJ	\	\	\	\	1.2 UJ	\
													Arsenic*	7.7	\	3.5	\	\	2.5	\
													Barium*	135	\	106	\	\	81.7	\
													Beryllium*	0.39	\	0.35	\	\	0.3	\
													Boron*	7.4	\	5.3	\	\	2.7	\
													Cadmium	0.23 U	\	\	\	\	0.22 U	\
													Calcium	7940 C	\	\	\	\	3420 C	\
													Chromium (total)*	9.7	\	9	\	\	7	\
													Chromium (hexavalent)*	1.5	\	0.6	\	\	0.22 U	\
													Cobalt*	6.5	\	6	\	\	5.7	\
													Copper*	14.1	\	13	\	\	10.9	\
													Iron	18900	\	\	\	\	14200	\
													Lead*	22.9	\	10.4	\	\	5.3	\
													Magnesium	4050	\	\	\	\	3300	\
													Manganese*	364 C	\	318	\	\	285 C	\
													Mercury*	0.03	\	\	\	\	0.02 U	\
													Molybdenum	0.43 U	\	\	\	\	0.4 U	\
													Nickel*	10.6	\	10	\	\	8.6	\
													Potassium	1550	\	\	\	\	1190	\
													Selenium	1.2 U	\	\	\	\	1.1 U	\
													Silicon	1080 J	\	\	\	\	600 J	\
													Silver	0.47 U	\	\	\	\	0.44 U	\
													Sodium	228 C	\	\	\	\	101 C	\
													Vanadium*	45.7	\	38.6	\	\	33.4	\
													Zinc*	65.3	\	47.8	\	\	37.5	\
													Acenaphthene*	0.0388 UJ	\	\	\	\	0.1 J	\
													Anthracene*	0.065	\	\	\	\	0.0076	\
													Benzo(a) anthracene*	0.15	\	0.05	\	\	0.076	\
													Benzo(a) pyrene*	0.16	\	0.05	\	\	0.046	\
													Benzo(b) fluoranthene*	0.11	\	0.04	\	\	0.048	\
													Benzo(g,h,i) perylene*	0.099	\	0.14	\	\	0.034	\
													Benzo(k) fluoranthene*	0.076	\	\	\	\	0.017	\
													Chrysene*	0.2	\	0.06	\	\	0.2	\
													Dibenz(a,h) anthracene*	0.024	\	\	\	\	0.00363 U	\
													Fluoranthene*	0.4	\	0.15	\	\	0.088	\
													Fluorene*	0.03	\	\	\	\	0.00363 U	\
													Indeno(1,2,3-cd)pyrene*	0.11 J	\	0.04	\	\	0.058	\
													Phenanthrene*	0.28	\	0.09	\	\	0.07	\
													Pyrene*	0.44	\	0.14	\	\	0.082	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the PAHs that were detected.							

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Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
1607-F1	Septic Tank	100-FR-2	6.50 m x 2.64 m x 3.79 m (21.3 ft x 8.7 ft x 12.4 ft)	1944-1965	The 1607-F1 Sanitary Sewer System consisted of a septic tank, drain field, and pipelines. The septic tank serviced the 1701-F Gatehouse, 1709‑F Fire Station, and 1720-F Administration Office.	Interim Closed Out	WSRF 2004-130	8-Jan-07	3-Apr-07	03-Apr-07 13-Aug-07 27-Aug-07	464	3.4		Excavation	Road X-ing	\	\	\	\	\
													Americium-241	\	0.12 U	\	\	\	0.39 U	\
													Cesium-137	\	0.12 U	\	\	\	0.11 U	\
													Cobalt-60	\	0.13 U	\	\	\	0.14 U	\
													Europium-152	\	0.31 U	\	\	\	0.28 U	\
													Europium-154	\	0.39 U	\	\	\	0.42 U	\
													Europium-155	\	0.23 U	\	\	\	0.29 U	\
													Gross alpha	\	57.2 J	\	\	\	14.8 J	\
													Gross beta	\	30.8	\	\	\	18.2	\
													Plutonium-238	\	0.0322 U	\	\	\	\	\
													Plutonium-239/240	\	0 U	\	\	\	\	\
													Potassium-40	\	16.9	\	\	\	12.3	\
													Radium-226	\	0.302	\	\	\	0.432	\
													Radium-228	\	0.778	\	\	\	0.756	\
													Silver 108m	\	0.086 U	\	\	\	0.085	\
													Thorium-228	\	0.615	\	\	\	0.503	\
													Thorium-232	\	0.778	\	\	\	0.756	\
													Total beta*	\	0.439 U	\	\	\	\	\
													Uranium-233/234	\	0.6	\	\	\	\	\
													Uranium-235	\	0.45 U	\	\	\	0.46 U	\
													Uranium-238	\	0.416	\	\	\	15 U	\
													Antimony*	1.1	1.9 UJ	\	\	\	1.9 UJ	\
													Arsenic*	2.9	3.9	2.2	\	\	3.1	\
													Barium*	90.8	48.2	62.6	\	\	76.2	\
													Beryllium*	0.41	0.28	0.3	\	\	0.45	\
													Boron*	2.1	1.6	\	\	\	1.3	\
													Chromium (total)*	21.6	8.7	12	\	\	10.5	\
													Chromium (hexavalent)	\	0.21 U	\			0.22	
													Cobalt*	6	5.6	5.6	\	\	7.2	\
													Copper*	11.6	12.9	11.2	\	\	11.4	\
													Lead*	17.5	4.8	7.9	\	\	11.5	\
													Manganese*	292	272	264	\	\	332	\
													Mercury*	0.16	0.02 U	\	\	\	0.02 U	\
													Molybdenum*	0.52	0.75 U	\	\	\	0.76 U	\
													Nickel*	9.8	9.5	8.8	\	\	10.6	\
													Selenium*	1.4	2.1 U	\	\	\	2.2 U	\
													Silver*	0.51	0.52 U	\	\	\	0.53 U	\
													Vanadium*	35.7	40.4	33.1	\	\	45.9	\
													Zinc*	49.4	38.3	37.7	\	\	54	\
													TPH*	253	\	\	\	\	149 U	\
													Benzo(a) anthracene	U	U	\	\	\	0.026	\
													Benzo(b) pyrene	U	U	\	\	\	0.038	\
													Benzo(b) fluoranthene	U	U	\	\	\	0.023	\
													Benzo(g,h,i) perylene	U	U	\	\	\	0.023	\
													Benzo(k) fluoranthene	U	U	\	\	\	0.03	\
													Bis(2-ethylhexyl) phthalate*	0.27	0.084	0.12	\	\	0.062	\
													Chrysene	U	U	\	\	\	0.037	\
													Dibenz(a,h) anthracene*	0.029	0.021	\	\	\	0.025	\
													Fluoranthene*	0.022	U	\	\	\	0.033	\
													Indeno(1,2,3-cd) pyrene	U	U	\	\	\	0.019	\
													Phenanthrene*	0.018	U	\	\	\	U	\
													Pyrene*	0.029	U	\	\	\	0.057	\
													beta-BHC*	0.0006	U	\	\	\	U	\
													alpha-Chlordane*	0.0042	U	\	\	\	U	\
													4,4'-DDD*	0.0012	U	\	\	\	U	\
													4,4'-DDE*	0.011	U	\	\	\	0.0019	\
													4,4'-DDT*	0.003	U	\	\	\	0.0014	\
													gamma-Chlordane*	0.0025	U	\	\	\	U	\
													Endosulfan I*	0.00053	U	\	\	\	U	\
													Heptachlor epoxide*	0.0006	U	\	\	\	U	\
													Methoxychlor*	0.001	U	\	\	\	0.0018	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes PCBs, pesticides, and SVOAs that were detected.							
1607-F2	Septic Tank	100-FR-1	11.67 m x 4.02 m x 4.54 m (38.3 ft x 13.2 ft x 14.9 ft)	1944-1965	This former septic system, which consisted of a septic tank, tile field, and associated pipelines, serviced the 184-F, 190-F, 105-F, 108-F, and the 1700 Administration Service Buildings. This site received unknown amounts of sanitary sewage.	Interim Closed Out	CVP-2002-00005	21-Mar-02	13-Aug-02	N/A	35,099	4.6	Cesium-137	0.25	\	0.16	\	\	\	\
													Cobalt-60	0.057 U	\	0.023	\	\	\	\
													Europium-152	0.56	\	0.33	\	\	\	\
													Europium-154	0.16 U	\	0.066	\	\	\	\
													Europium-155	0.11 U	\	0.049	\	\	\	\

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
1607-F3	Septic Tank	100-FR-1	4.82 m x 1.88 m x 3.79 m (15.8 ft x 6.2 ft x 12.4 ft)	1944-1965	This site is the former location of the sanitary sewer system that supported the 182-F Pump Station, the 183-F Water Treatment Plant, and the 151-F Substation.	Interim Closed Out	WSRF 2006-047	Sep-05	Dec-06	09-Mar-06 20-Mar-06 18-Dec-06	6,589	4	Americium-241	0.37 U	\	\	\	\	0.3 U	\
													Cesium-137*	0.14	\	0.067	\	\	0.13 U	\
													Cobalt-60	0.11 U	\	\	\	\	0.071 U	\
													Europium-152	0.26 U	\	\	\	\	0.15 U	\
													Europium-154	0.4 U	\	\	\	\	0.22 U	\
													Europium-155	0.25 U	\	\	\	\	0.16 U	\
													Potassium-40	13.6	\	\	\	\	12.2	\
													Radium-226	0.604	\	\	\	\	0.451	\
													Radium-228	1.3	\	\	\	\	0.525	\
													Silver-108m	0.084 U	\	\	\	\	0.046 U	\
													Thorium-228	0.829	\	\	\	\	0.549 J	\
													Thorium-232	1.3	\	\	\	\	0.525	\
													Uranium-235	0.37 U	\	\	\	\	0.25 U	\
													Uranium-238	13 U	\	\	\	\	8.2 U	\
													Aluminum	7380	\	\	\	\	5460 C	\
													Antimony	3.3 UJ	\	\	\	\	0.45 UJ	\
													Arsenic*	15.2	\	8.2	\	\	12.1	\
													Barium*	81.8	\	73.3	\	\	60.2 CJ	\
													Beryllium*	0.29	\	0.26	\	\	0.02	\
													Boron*	0.67	\	0.38	\	\	1.7 C	\
													Cadmium*	0.46	\	\	\	\	0.27	\
													Calcium	3850	\	\	\	\	4180	\
													Chromium (total)*	10.3	\	9.6	\	\	9.4	\
													Cobalt*	6.7	\	6	\	\	5.2	\
													Copper*	14.7	\	13.2	\	\	14.5	\
													Iron	16700	\	\	\	\	13000 C	\
													Lead*	47.3	\	29	\	\	54.9	\
													Magnesium	4230	\	\	\	\	3430	\
													Manganese*	294	\	275	\	\	255	\
													Mercury*	0.04	\	\	\	\	0.03	\
													Molybdenum	0.52 U	\	\	\	\	0.29 U	\
													Nickel*	10.9	\	10.2	\	\	9.6	\
													Potassium	1530	\	\	\	\	1160 C	\
													Selenium*	4.2	\	\	\	\	0.48 UC	\
													Silicon	804 J	\	\	\	\	630 J	\
													Silver	0.58 U	\	\	\	\	0.07 UC	\
													Sodium	118	\	\	\	\	100 C	\
													Vanadium*	37.4	\	34.1	\	\	28.2	\
													Zinc*	52.1	\	41.9	\	\	38.4	\
													Aroclor-1254	0.015 U	\	\	\	\	0.0034 J	\
													Aroclor-1260*	0.0035 J	\	\	\	\	0.0014 U	\
													4,4-DDE	0.015 U	\	\	\	\	0.00049	\
													4,4-DDT	0.015 U	\	\	\	\	0.00035	\
													alpha-Chlordane*	0.001 JD	\	\	\	\	0.00035 U	\
													gamma-Chlordane*	0.0026 D	\	\	\	\	0.00083 J	\
													Acetone	0.010 U	\	\	\	\	0.005 J	\
													Benzo(a) pyrene*	0.033 J	\	\	\	\	0.35 U	\
													Benzo(g,h,i) perylene*	0.023 J	\	\	\	\	0.35 U	\
													Benzo(k) fluoranthene*	0.029 J	\	\	\	\	0.35 U	\
													Chloroform	0.005 U	\	\	\	\	0.001	\
													Chrysene*	0.022 J	\	\	\	\	0.35 U	\
													Di-n-butylphthalate*	0.025 J	\	\	\	\	0.12 J	\
													Indeno(1,2,3-cd)pyrene*	0.022 J	\	\	\	\	0.35 U	\
													Ethylbenzene*	0.002 J	\	\	\	\	0.006 U	\
													Methylene Chloride*	0.043 JB	\	\	\	\	0.010 U	\
													Tetrachloroethene*	0.002 J	\	\	\	\	0.006 U	\
													Toluene*	0.001 J	\	\	\	\	0.006 U	\
													Xylenes (total)*	0.006 J	\	\	\	\	0.006 U	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the PCBs, pesticides, VOAs and SVOAs that were detected.							

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Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
1607-F4	Septic Tank	100-FR-1	1.62 m x 1.01 m x 2.74 m (5.3 ft x 3.3 ft x 9.0 ft)	1944-1965	The site consisted of a sanitary sewer system that serviced the 115-F Gas Recirculation Building. The site received unknown amounts of sanitary sewage.	Interim Closed Out	WSRF 2004-131	3-Apr-07	5-Apr-07	04-Apr-07 07-Aug-07	707 m^3	3.2		Excavation	Road X-ing	Excavation	\	\	\	\
													Americium-241	\	0.26 U	\	\	\	0.096 U	\
													Cesium-137	\	0.16 U	\	\	\	0.11 U	\
													Cobalt-60	\	0.17 U	\	\	\	0.1 U	\
													Europium-152	\	0.41 U	\	\	\	0.27 U	\
													Europium-154	\	0.54 U	\	\	\	0.34 U	\
													Europium-155	\	0.26 U	\	\	\	0.21 U	\
													Gross alpha	\	18.6	\	\	\	10.6	\
													Gross beta	\	29.2	\	\	\	21	\
													Plutonium-238	\	0.25 U	\	\	\	\	\
													Plutonium-239	\	0.25 U	\	\	\	\	\
													Potassium-40	\	15.2	\	\	\	13.6	\
													Radium-226	\	0.3	\	\	\	0.521	\
													Radium-228	\	0.671	\	\	\	0.895	\
													Silver-108m	\	0.12 U	\	\	\	0.079 U	\
													Thorium-228	\	0.524	\	\	\	0.67	\
													Thorium-232	\	0.671	\	\	\	0.895	\
													Strontium-90	\	0.22 U	\	\	\	\	\
													Uranium-233/234	\	0.489	\	\	\	\	\
													Uranium-235	\	0.14 U	\	\	\	0.43 U	\
													Uranium-238	\	0.458	\	\	\	11 U	\
													Aluminum	7820	4490 C	\	\	\	7700	\
													Antimony*	1.2 J	0.94 U	0.83	\	\	0.97 U	\
													Arsenic*	2.8	2.0	2.2	\	\	2.3	\
													Barium*	84.8 C	36.1	68.1	\	\	125	\
													Beryllium*	0.43	0.27	0.34	\	\	0.43	\
													Boron*	2.3 CUJ	1.1 U	\	\	\	5.8	\
													Cadmium*	0.38	0.09 U	\	\	\	0.15 U	\
													Calcium	3850 CJ	2880 C	\	\	\	4400 C	\
													Chromium (total)*	29.6 J	7	13.2	\	\	10.5 J	\
													Cobalt*	7.8	4.5	6.9	\	\	7.2	\
													Copper*	21.7 CJ	13.6	14.7	\	\	13.6 CJ	\
													Chromium (hexavalent)*	0.23	0.21 U	\	\	\	0.28	\
													Iron	20900 C	11800	\	\	\	20400 C	\
													Lead*	6.8	3.4	5.5	\	\	7.7	\
													Magnesium	4540 CJ	3250	\	\	\	4320 CJ	\
													Manganese*	351	218	312	\	\	334	\
													Mercury*	1.2	0.01 U	\	\	\	0.02 U	\
													Molybdenum*	0.58	0.49	\	\	\	0.48 U	\
													Nickel*	12.7	9.5	10.1	\	\	10.9	\
													Potassium	1350 J	572	\	\	\	1280 J	\
													Selenium	2.2 UJ	1.1 U	\	\	\	1.3 U	\
													Silicon	1980 C	365 C	\	\	\	838 C	\
													Silver	0.27 U	0.27 U	\	\	\	0.27 U	\
													Sodium	198 C	92.5 C	\	\	\	202 C	\
													Vanadium*	47.8 J	27.3	43	\	\	47.9 J	\
													Zinc*	93 CJ	30.8 C	48.7	\	\	41.3 CJ	\
													Aroclor-1254*	0.046	0.014 U	\	\	\	0.014 U	\
													Aroclor-1260*	0.0067 J	0.014 U	\	\	\	0.014 U	\
													alpha-Chlordane*	0.0056 JD	0.0014 U	\	\	\	0.0014 U	\
													4,4'-DDE*	0.0021 JD	0.0014 U	\	\	\	0.0014 U	\
													4,4'-DDT*	0.0028 JDI	0.0014 U	\	\	\	0.0014 U	\
													gamma-Chlordane*	0.0045 JD	0.0014 U	\	\	\	0.0014 U	\
													Endrin aldehyde*	0.0018 JD	0.0014 U	\	\	\	0.0014 U	\
													Endrin ketone*	0.0029 JD	0.0014 U	\	\	\	0.0014 U	\
													Benzo(a) anthracene*	0.022 J	0.35 U	\	\	\	0.35 U	\
													Benzo(k) fluoranthene*	0.018 J	0.35 U	\	\	\	0.35 U	\
													Bis(2-ethylhexyl) phthalate*	0.66 U	0.19 JB	\	\	\	0.14 JB	\
													Chrysene*	0.026 J	0.35 U	\	\	\	0.35 U	\
													Di-n-butylphthalate*	0.050 J	0.041 J	0.031	\	\	0.024 J	\
													Fluoranthene*	0.044 J	0.35 U	\	\	\	0.35 U	\
													Phenol*	0.029 J	0.35 U	\	\	\	0.35 U	\
													Pyrene*	0.038 J	0.35 U	\	\	\	0.35 U	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes PCBs, pesticides, and SVOAs that were detected.							

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
1607-F5	Septic Tank	100-FR-1	1.62 m x 1.01 m x 2.74 m (5.3 ft x 3.3 ft x 9.0 ft)	1944-1965	The site was a former septic tank, tile field, and associated pipeline that received sewage from the 181-F Pumphouse. The septic tank had a capacity of 795 L (210 gal).	Interim Closed Out	WSRF 2006-043	30-Aug-05	31-Aug-05	13-Mar-06 thru 20-Mar-06	2,250	2.8	Aluminum	5760	\	\	\	\	5450 C	\
													Antimony	3.1 U	\	\	\	\	0.45 UJ	\
													Arsenic*	2.9	\	\	\	\	2.8	\
													Barium*	65.6	\	45.6	\	\	69.7 CJ	\
													Beryllium*	0.22	\	0.2	\	\	0.09	\
													Boron*	0.53	\	\	\	\	3.0 C	\
													Cadmium	0.42 U	\	\	\	\	0.33	\
													Calcium	4960	\	\	\	\	5730	\
													Chromium (total)*	9.8	\	8.9	\	\	8.6	\
													Cobalt*	5.2	\	4.7	\	\	5.1	\
													Copper*	16.3	\	13.5	\	\	12.6	\
													Iron	13500	\		\	\	12700 C	\
													Lead*	7.5	\	4.3	\	\	6.9	\
													Magnesium	3760	\		\	\	3440	\
													Manganese*	254	\	217	\	\	239	\
													Mercury	0.02 U	\		\	\	0.02 U	\
													Molybdenum*	0.53	\	\	\	\	0.31	\
													Nickel*	11.6	\	10.2	\	\	9.3	\
													Potassium	1330	\	\	\	\	1210 C	\
													Selenium	3.6 U	\	\	\	\	0.48 UC	\
													Silicon	594	\	\	\	\	530 J	\
													Silver	0.56 U	\	\	\	\	0.07 UC	\
													Sodium	115	\	\	\	\	111 C	\
													Vanadium*	29.6	\	28	\	\	29	\
													Zinc*	39.5	\	29.6	\	\	35.3	\
													Aroclor-1254	0.014 U	\	\	\	\	0.0055 J	\
													Beta-BHC	0.00034 U	\	\	\	\	0.0016 J	\
													4,4 DDE	0.00034 U	\	\	\	\	0.0018	\
													4,4 DDT	0.00034 U	\	\	\	\	0.0015 J	\
													Endosulfan I	0.00034 U	\	\	\	\	0.0006 J	\
													Bis(2-ethylhexyl) phthalate*	0.31 JB	\	0.11	\	\	0.66 U	\
													Di-n-butylphthalate*	0.11 J	\	\	\	\	0.35 U	\
													*These analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes PCBs, pesticides, and SVOAs that were detected.							
1607-F6	Drain/Tile Field	100-FR-1	22.86 m x 4.88 m x 0.91 m (75 ft x 16 ft x 3 ft)	1945-1975	The site was located in the Experimental Animal Farm area of the 100-F Area and received sanitary sewage from the 146-F and 146-FR buildings. A portion of the septic system drainfield is located directly over one of the large reactor cooling water effluent pipelines.	Interim Closed Out	CVP-2001-00010	28-Jul-00	25-Apr-01	16-Jan-01 14-May-01	1726	3.5	Carbon-14	0.905 U	\	0.64	\	\	\	\
													Cesium-137	0.089 J	\	0.056	\	\	\	\
													Cobalt-60	0.053 U	\	0.021	\	\	\	\
													Europium-152	0.065 J	\	0.054	\	\	\	\
													Europium-154	0.18 U	\	0.072	\	\	\	\
													Europium-155	0.11 U	\	0.044	\	\	\	\
													Nickel-63	2.5 U	\	0.12	\	\	\	\
													Strontium-90	0.22 U	\	0.03	\	\	\	\
													Lead	19	\	12	\	\	\	\
													SVOAs	U	\	\	\	\	\	\
													Aroclor-1254	0.41	\	0.21	\	\	\	\
													Of the PCBs, only Aroclor-1254 was detected at concentrations above the analytical PQL and was therefore included as a site COC.							

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
1607-F7	Septic Tank	100-FR-1	1.52 m x 1.52 m x 1.83 m (5 ft x 5 ft x 6 ft)	1945-1975	The site was a former animal grazing area above a septic tank, tile field, and associated pipeline. The septic tank received sewage from 141-M Building and had a volume of 3,800 L (1,000 gal).	Interim Closed Out	WSRF 2006-040	8-Aug-05	30-Nov-05	4-Apr-06	1088	3.6	Aluminum	6470	\	\	\	\	7100	\
													Antimony*	0.53 J	\	\	\	\	1.3 U	\
													Arsenic*	3.7	\	2.7	\	\	3.4	\
													Barium*	135 C	\	113	\	\	147	\
													Beryllium*	0.46	\	0.4	\	\	0.3	\
													Boron*	4.7	\	4.5	\	\	7.7	\
													Cadmium*	0.32	\	0.17	\	\	0.22	\
													Calcium	5360		\	\	\	4600	\
													Chromium (Total)*	18.7	\	11	\	\	12.2	\
													Cobalt*	6.5	\	5.7	\	\	6.4	\
													Copper*	15.3	\	13.7	\	\	16.4	\
													Hexavalent Chromium	2.3 UJD	\	\	\	\	0.20 U	\
													Iron	16000		\	\	\	17500	\
													Lead*	46.3	\	18.9	\	\	12.3	\
													Magnesium	3960			\	\	4300	\
													Manganese*	321	\	283	\	\	300	\
													Mercury*	0.02	\	\	\	\	0.04	\
													Molybdenum*	0.52	\	0.48	\	\	0.85 U	\
													Nickel*	10.5	\	9.9	\	\	11.3	\
													Potassium	1480	\	\	\	\	1440	\
													Selenium	0.52 U	\	\	\	\	1.4 U	\
													Silicon	606 J	\	\	\	\	637	\
													Silver	0.08 U	\	\	\	\	0.20 U	\
													Sodium	150 C	\	\	\	\	167	\
													Vanadium*	36.8	\	32.2	\	\	40.2	\
													Zinc*	84	\	48.8	\	\	72	\
													Aroclor-1254*	0.0084 J	\	\	\	\	0.014 U	\
													Aroclor-1260*	0.01 J	\	\	\	\	0.06	\
													2-Methylnaphthalene*	0.17 J	\	0.16	\	\	0.11 J	\
													Benzo(a) anthracene*	0.026 J	\	\	\	\	0.022 J	\
													Benzo(a) pyrene*	0.023 J	\	\	\	\	0.032 J	\
													Benzo(b) fluoranthene*	0.048 JD	\	\	\	\	0.036 J	\
													Benzo (g,h,i) perylene*	0.058 JD	\	\	\	\	0.035 J	\
													Benzo(k) fluoranthene*	0.046 JD	\	\	\	\	0.032 J	\
													Bis(2-ethylhexyl) phthalate*	0.066 J	\	0.05	\	\	0.035 JB	\
													Butylbenzylphthalate*	0.037 J	\	\	\	\	0.34 U	\
													Chrysene*	0.076 JD	\	\	\	\	0.05 J	\
													Dibenzofuran*	0.03 J	\	\	\	\	0.027 J	\
													Di-n-butylphthalate*	0.047 J	\	0.31	\	\	0.034 JB	\
													Fluoranthene*	0.072 JD	\	\	\	\	0.037 J	\
													Indeno-(1,2,3-cd) pyrene*	0.058 JD	\	\	\	\	0.027 J	\
													Naphthalene*	0.13 J	\	0.21	\	\	0.072 J	\
													Phenanthrene*	0.1 JD	\	0.21	\	\	0.044 J	\
													Pyrene*	0.77 UJD	\	\	\	\	0.051 J	\
													Aldrin*	0.00042 JD	\	\	\	\	0.0014 UD	\
													alpha-BHC*	0.0011 JD	\	\	\	\	0.0014 UD	\
													alpha-Chlordane*	0.0017 JD	\	\	\	\	0.0055	\
													beta-BHC*	0.0031 D	\	0.0019	\	\	0.0014 UD	\
													4,4'-DDE*	0.0021 JD	\	\	\	\	0.0022	\
													4,4'-DDT*	0.0065 JD	\	0.0095	\	\	0.046	\
													Acetone*	0.029	\	0.011	\	\	\	\
													Endosulfan I*	0.00054 JD	\	\	\	\	0.0014 UD	\
													Endosulfan sulfate*	0.0011 JD	\	\	\	\	1.4 UD	\
													Endrin aldehyde*	0.0013 JD	\	\	\	\	1.4 UD	\
													Endrin ketone*	0.00089 JD	\	\	\	\	1.4 UD	\
													gamma-Chlordane*	0.0011 JD	\	\	\	\	3.7	\
													Methoxychlor*	0.0014 JD	\	\	\	\	1.4 UD	\
													2-Hexanone*	0.002 JB	\	\	\	\	10 U	\
													4-Methyl-2-pentanone*	0.003 J	\	\	\	\	10 U	\
													Chloroform*	0.003 JB	\	\	\	\	1 JB	\
													Methylene chloride*	0.011 B	\	\	\	\	13 B	\
													*These analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes PCBs, pesticides, and SVOAs that were detected.							

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
182-F	Dumping Area	100-FR-1	131.7 m x 94.2 m 432 ft x 309 ft)	1944-1977	Site 182-F consisted of a concrete basin divided into two sections. This reservoir held reserve water for reactor cooling and had a capacity of 94.6 million L (25 million gal). The basin was later used as a landfill for the disposal of decontaminated rubble from buildings that were decommissioned in the 100-F Area.	Interim Closed Out	WSRF 2005-025	29-Mar-05	29-Apr-05	29-Apr-05 26-May-05	0.154	3.96	Americium-241	0.28 U	\	\	\	\	0.32 U	\
													Carbon-14	5.1 U	\	\	\	\	5.2 U	\
													Cesium-137	0.12 U	\	\	\	\	0.11 U	\
													Cobalt-60	0.13 U	\	\	\	\	0.087 U	\
													Europium-152	0.27 U	\	\	\	\	0.24 U	\
													Europium-154	0.45 U	\	\	\	\	0.27 U	\
													Europium-155	0.25 U	\	\	\	\	0.22 U	\
													Potassium-40	10	\	\	\	\	12.8	\
													Radium-226	0.557 J	\	\	\	\	0.414 J	\
													Radium-228	1.1 U	\	\	\	\	0.86	\
													Thorium-228	0.633	\	\	\	\	0.661	\
													Thorium-232	1.1 U	\	\	\	\	0.86	\
													Tritium	5.8 U	\	\	\	\	6.4 U	\
													Uranium-235	0.35 U	\	\	\	\	0.31 U	\
													Uranium-238	12 U	\	\	\	\	11 U	\
													Gross alpha	8.26	\	\	\	\	6.64	\
													Gross beta	19.8	\	\	\	\	17.3	\
													Aluminum	7200	\	\	\	\	7900	\
													Antimony*	0.25	\	\	\	\	0.5 J	\
													Arsenic*	7.1	\	\	\	\	6.4	\
													Barium*	78.6	\	\	\	\	79 C	\
													Beryllium*	0.44	\	\	\	\	0.49	\
													Boron*	2.4	\	\	\	\	3.2 C	\
													Cadmium*	0.39	\	\	\	\	0.78	\
													Chromium (total)*	13 C	\	\	\	\	22.6 C	\
													Cobalt*	6.3	\	\	\	\	6.9	\
													Copper*	16 C	\	\	\	\	18.7 C	\
													Chromium (hexavalent)*	0.34	\	\	\	\	0.28	\
													Iron	18200	\	\	\	\	20500	\
													Lead*	19.8	\	\	\	\	58.7	\
													Magnesium	4100	\	\	\	\	4630	\
													Manganese*	286	\	\	\	\	312	\
													Mercury	0.02 U	\	\	\	\	0.04	\
													Molybdenum*	0.49	\	\	\	\	0.56	\
													Nickel*	11.6	\	\	\	\	16.8	\
													Potassium	1500	\	\	\	\	1560	\
													Selenium	0.4 U	\	\	\	\	0.38 U	\
													Silicon	291 J	\	\	\	\	344 J	\
													Silver	0.05 UC	\	\	\	\	0.05 UC	\
													Sodium	167	\	\	\	\	289	\
													Vanadium*	40.2	\	\	\	\	49.1	\
													Zinc*	83.7	\	\	\	\	139	\
													Aroclor-1016	0.02	\	\	\	\	0.014 UJ	\
													Aroclor-1254*	0.83 DJ	\	\	\	\	0.036 J	\
													Aroclor-1260*	0.11	\	\	\	\	0.015	\
													Asbestos	0.023	\	\	\	\	Trace	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes PCBs that were detected.							
600-31	Dumping Area	100-FR-2	15.24 m x 3.05 m (50 ft x 10 ft)	Not Documented	The site is a sandy area and exhibits physical evidence that the dumping of laboratory materials took place. The area also appears to have been disturbed by a blade or bulldozer. Wastes identified are laboratory-type bottles and bottle caps. The markings and colors on the bottles and caps indicate they most likely contained laboratory chemicals (e.g., nitric acid, sulfuric acid, and hydrochloric acid). No evidence exists to indicate hazardous, dangerous, or radioactive waste was disposed at this site.	Rejected	WSRF 97-006	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-351	Dumping Area	100-FR-2	Not Documented	Not Documented	The site contained two stained soil areas. The first area consisted of stained, crusted soil and no vegetation, measuring 4 m (13.2 ft) in diameter. The second area consisted of petroleum-based material released to the ground surface and the underlying soils. The soil was crusted and no vegetation was growing in the affected area. There were oil cans lying in the site and surrounding area.	Interim Closed Out	WSRF 2011-087	10-Mar-11	10-Mar-11	06-Jun-11 thru 08-Aug-11	120.5	1.8	Aluminum	10700	\	\	\	\	\	\
													Antimony	0.69	\	\	\	\	\	\
													Arsenic	250 XN	\	\	\	\	\	\
													Barium	97.1	\	\	\	\	\	\
													Beryllium	0.30	\	\	\	\	\	\
													Boron	1.7 B	\	\	\	\	\	\
													Cadmium	0.34	\	\	\	\	\	\
													Calcium	4850 XM	\	\	\	\	\	\
													Chromium	12.4	\	\	\	\	\	\
													Cobalt	8.4 X	\	\	\	\	\	\
													Copper	16.3	\	\	\	\	\	\
													Iron	22200	\	\	\	\	\	\
													Lead	805 X	\	\	\	\	\	\
													Magnesium	4960	\	\	\	\	\	\
													Manganese	364 X	\	\	\	\	\	\
													Mercury	0.012 B	\	\	\	\	\	\

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Molybdenum	0.50 B	\	\	\	\	\	\
													Nickel	12.5 X	\	\	\	\	\	\
													Potassium	1930	\	\	\	\	\	\
													Selenium	0.92	\	\	\	\	\	\
													Silicon	446 X	\	\	\	\	\	\
													Silver	0.16 U	\	\	\	\	\	\
													Sodium	271	\	\	\	\	\	\
													Vanadium	48.8	\	\	\	\	\	\
													Zinc	51.2 X	\	\	\	\	\	\
													TPH - Diesel Range	24	\	\	\	\	\	\
													TPH - Diesel Range EXT	48	\	\	\	\	\	\
													MCPP	2.3 J	\	\	\	\	\	\
													2,4-DB	0.027 J	\	\	\	\	\	\
													PCBs	U	\	\	\	\	\	\
													Pesticides	U	\	\	\	\	\	\
UPR-100-F-1	Unplanned Release	100-FR-1	12.2 m x 12.2 m (40 ft x 40 ft)	1971	The site was an unplanned release that occurred on March 13, 1971. The release was associated with the 100-F-29 pipelines that were on the northeast end of the Experimental Animal Farm hog barn, identified as the 141-C Building. The washwater contained 4 x 10^{-5} curies of strontium-90 and 1.06 x 10^{-6} curies of plutonium-239. The site is located within the footprint of the 100-F-29 pipeline excavation and was therefore included as part of this CVP sample design for cleanup verification.	Interim Closed Out	CVP-2001-00003	See 100-F-19:2. This site was remediated along with 100-F-19:2 and the sample results are the same.												
UPR-100-F-2	Unplanned Release	100-FR-1	142 m x 0.91 m x 4.57 m (466 ft x 3 ft x 15 ft)	1955	The site was a narrow ditch that was created from repeated effluent leakage at the north end of the 107-F Retention Basin. Multiple releases occurred intermittently for an extended period of time before the leak was repaired. The ditch appeared as an open cobble-covered field that could not be distinguished from the 116-F-9 Animal Waste Leach Trench, which it crossed from west to east. The point where the ditch reached the river is unremarkable with no clear signs of erosion.	Interim Closed Out	CVP-2001-00011	6-Feb-01	28-Jul-01	16-Aug-01	670	4.2	Cobalt-60	0.086	\	0.11	\	\	\	\
													Cesium-137	0.351	\	0.0379	\	\	\	\
													Europium-152	1.48	\	0.511	\	\	\	\
													Europium-154	0.196	\	0.104	\	\	\	\
UPR-100-F-3	Unplanned Release	100-FR-1	3.05 m x 3.05 m (10 ft x 10 ft)	1977	The site was an unplanned release that occurred at the northeast corner of the 146-FR Building. This spill became part of the 100-F-25 excavation project. The extent of the unplanned release was contained entirely within the footprint of the 100-F-25 waste site.	Interim Closed Out	CVP-2003-00010	See 100-F-25. This site was remediated along with 100-F-25 and the sample results are the same.												

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
100-IU-2/6 Operable Unit Waste Sites																				
600-3	Dumping Area	100-IU-6	488 m x 282 m (1600 ft x 925 ft)	1943-1958	The site may have been used as the disposal site for the railroad yard maintenance shop (6718 Locomotive House) and consisted of a shallow trench that appeared to have been an old borrow pit and a dumping area. Both the dumping area and pit showed signs of an attempt to cover the waste, with bulldozer tracks being prevalent throughout the areas, as well as evidence of burning.	Interim Closed Out	WSRF 2011-072	Feb-10	Feb-11	Feb-11 and Mar-11	144,156	N/A		West Excavation	East Excavation	West Excavation	East Excavation	Composite/ Focused		
													Americium-241	0.331 U	0.305 U	\	\	0.344 U	0.228 U	\
													Cesium-137	0.033	0.085	0.026	0.04	0.015	0.068	0.047
													Cobalt-60	0.077 U	0.116 U	\	\	0.098 U	0.11 U	\
													Europium-152	0.219 U	0.232 U	\	\	0.218 U	0.218 U	\
													Europium-154	0.252 U	0.26 U	\	\	0.236 U	0.266 U	\
													Europium-155	0.185 U	0.188 U	\	\	0.147 U	0.207 U	\
													Potassium-40	17.2	15	\	\	18.3	15.6	\
													Radium-226	0.604	0.582	\	\	0.624	0.619	\
													Radium-228	1.06	0.903	\	\	0.878	1.02	\
													Thorium-228	0.96	0.878	\	\	1.09	0.872	\
													Thorium-232	1.06	0.903	\	\	0.878	1.02	\
													Uranium-233/234	0.838	0.962	0.684	0.608	0.74	1.19	0.734
													Uranium-235	0.296 U	0.343 U	\	\	0.325 U	0.344 U	\
													Uranium-238	0.76	0.852	0.665	0.628	0.851	1.1	0.603
													Aluminum	8950	8180	\	\	6960	8980	\
													Antimony*	0.335 JB	0.624	\	\	0.289 JB	0.54 U	\
													Arsenic*	3.62	4.72	3.02	3.27	3.12	12.7	6.32
													Barium*	93.4	68.7	73.3	59.4	78.5	90	79.9
													Beryllium*	0.349	0.334	0.314	0.284	0.282	0.326	0.306
													Boron*	1.15 B	1.39 B	0.96	1.06	1.12 B	2.32	1.56
													Cadmium*	0.127 B	0.149 B	0.118	0.103	0.13 B	0.277	0.196
													Calcium	4200	10800	\	\	5970	4970	\
													Chromium*	11	13	10.1	11	10.4	10.9	9.73
													Cobalt*	7.73	6.39	6.75	5.48	5.78	7.17	6.79
													Copper*	15.3	31	13.1	16.3	12.2	15.7	13.7
													Iron	24300	20400	\	\	22000	24600	\
													Lead*	12.4	140	6.99	34.4	8.25	35.7	22.2
													Magnesium	5100	4750	\	\	4350	4750	\
													Manganese*	389	303	316	247	311	360	339
													Molybdenum*	0.485 B	0.322 B	0.376	0.296	0.37 B	0.385 B	0.359
													Nickel*	10.6	12.7	9.48	11.1	10.5	10.5	9.46
													Potassium	1450	1360	\	\	1230	1690	\
													Selenium*	0.377	0.277 U	\	\	0.273 U	0.27 U	\
													Silicon	646	977	\	\	469	701	\
													Silver	0.205 U	0.185 U	\	\	0.182 U	0.18 U	\
													Sodium	581	470	\	\	288	289	\
													Vanadium*	68.7	55.8	62.6	49.8	61.2	66.4	62.7
													Zinc*	43.6	55.7	41.5	39.2	72.5	88.1	58.2
													Acenaphthene*	0.021	0.0674	\	\	\	0.0811	0.025
													Acenaphthylene	0.00358 U	0.00472	\	\	\	0.00360 U	\
													Anthracene*	0.00231 J	0.00394	\	\	\	0.0136	\
													Benzo(a)anthracene	0.0146	0.169	\	\	\	0.0756	0.0218
													Benzo(a)pyrene*	0.0173	0.0675	\	\	\	0.0713	0.0667
													Benzo(b)fluoranthene*	0.0126	0.0734	\	\	\	0.0884	0.0533
													Benzo(ghi)perylene*	0.0132	0.0559	\	\	\	0.0657	0.0421
													Benzo(k)fluoranthene*	0.00617	0.0319	\	\	\	0.0366	0.0116
													Chrysene*	0.0132	0.022	\	\	\	0.0434	0.0449
													Dibenz(a,h)anthracene*	0.00168 J	0.00731	\	\	\	0.0049	\
													Fluoranthene*	0.0455	0.183	\	\	\	0.278	0.228
													Fluorene*	0.000951 J	0.00158 J	\	\	\	.00303 J	\
													Indeno(1,2,3-cd)pyrene	0.00931	0.0376	\	\	\	0.0547	0.0171
													Naphthalene*	0.00358 U	0.00999	\	\	\	0.00360 U	\
													Phenanthrene*	0.0246	0.0267	\	\	\	0.0664	0.0197
													Pyrene*	0.0621	0.0148	\	\	\	0.135	0.0404
													Aroclor-1254	0.0138 U	0.0143 U	\	\	\	0.011 J	\
													Aroclor-1260	0.0117 J	0.00581 J	\	\	\	0.0478	0.0154
													TPH - Diesel Range	3.56 U	3.51 U	\	\	\	7.32	\
													TPH - Motor Oil	4.96 J	24.7	\	\	\	26.6	19
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes PAHs and PCBs that were detected.							
600-5	Dumping Area	100-IU-2	72 m x 72 m (240 ft x 240 ft)	Not Documented	The site consisted of a circular asphalt or heavy oil area, an asphalt or heavy oil ditch, and an area of surface debris that appeared to contain household material, such as broken ceramic dishes and kitchen-type items. The asphalt or heavy oil material that made up the pad and ditch did not appear to contain gravel, making its appearance different from that of typical roadway type asphalt surfaces. It is unknown whether the pad and ditch were planned construction or the result of the dumping of a heavy oil type substance; however, they appeared to have been planned.	Interim Closed Out	WSRF 2010-087	11-Feb-10	11-Feb-10	16-Aug-10	182	0.3 m (1 ft)	Aluminum	11400 J	\	\	\	\	11600 J	\
													Antimony*	0.415 BJ	\	\	\	\	0.335 BJ	\
													Arsenic*	3.57	\	\	\	\	3.41	\
													Barium*	84.5	\	\	\	\	90.7	\
													Beryllium*	0.338	\	\	\	\	0.335	\
													Boron*	2.08	\	\	\	\	2.26	\
													Cadmium*	0.135 B	\	\	\	\	0.149	\
													Calcium	3960	\	\	\	\	3740	\
													Chromium (total)*	13.4	\	\	\	\	13.1	\
													Cobalt*	6.89	\	\	\	\	6.76	\

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Copper*	12.1	\	\	\	\	12.2	\
													Iron	23400	\	\	\	\	22500	\
													Lead*	4.15	\	\	\	\	5.19	\
													Magnesium	4060	\	\	\	\	4160	\
													Manganese*	327	\	\	\	\	330	\
													Mercury	0.0291 U	\	\	\	\	0.0258 U	\
													Molybdenum*	0.362 B	\	\	\	\	0.344 B	\
													Nickel*	10.7	\	\	\	\	10.5	\
													Potassium	2120	\	\	\	\	2280	\
													Selenium	0.238 U	\	\	\	\	0.201 U	\
													Silicon	1560 J	\	\	\	\	1400 J	\
													Silver	0.159 U	\	\	\	\	0.134 U	\
													Sodium	241	\	\	\	\	243	\
													Vanadium*	59.4	\	\	\	\	57.1	\
													Zinc*	40.7	\	\	\	\	42.3	\
													TPH-diesel	3.32 U	\	\	\	\	3.31 U	\
													TPH-motor oil*	23.9 J	\	\	\	\	33.6 J	\
													SVOAs	U	\	\	\	\	U	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs.							
600-20	Depression/ Pit (nonspecific)	100-IU-6	3 m x 3 m x 1 m (9.8 ft x 9.8 ft x 3.3 ft)	Not Documented	The site was originally described as two abandoned asphalt tanks, each with a volume capacity of 45,420 to 52,990 L (12,000 to 14,000 gal). A 1999 waste site walkdown identified several valve pits and a depression that contains discarded asphalt material, several pails, and drums. There was no evidence of hazardous or radiological waste in the area.	Rejected	WSRF 97-030	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-23	Dumping Area	100-IU-6	18.3 m x 60 m (60 ft x 197 ft)	Not Documented	The waste site was an area of buried debris inside a large gravel pit (WIDS site code 600-248). The selected remedial action for the 600-23 site included excavating the site to the extent required to meet specified soil cleanup levels, and disposing of contaminated excavation materials at the ERDF. The northeast portion of the pit is still actively used as a gravel source for backfill material.	Interim Closed Out	CVP-2001-00020	1-Feb-01	May-01	23-May-01 24-May-01 05-Jul-01	16,919	5	Americium-241	\	\	\	\	0.13 U	\	\
													Cesium-137	\	\	\	\	0.042 U	\	\
													Cobalt-60	\	\	\	\	0.044 U	\	\
													Europium-152	\	\	\	\	0.1 U	\	\
													Europium-154	\	\	\	\	0.13 U	\	\
													Europium-155	\	\	\	\	0.042	\	\
													Potassium-40	\	\	\	\	10	\	\
													Radium-226	\	\	\	\	0.38	\	\
													Radium-228	\	\	\	\	0.55	\	\
													Thorium-228	\	\	\	\	0.66	\	\
													Thorium-232	\	\	\	\	0.55	\	\
													Uranium-233/234	\	\	\	\	0.16 U	\	\
													Uranium-235	\	\	\	\	0.057 U	\	\
													Uranium-238	\	\	\	\	0.19	\	\
													Arsenic*	3.2	\	2.82	\	2.3	4.6	3.51
													Barium*	78.6	\	69.1	\	68	90	75.5
													Cadmium*	0.32	\	0.153	\	0.15	0.19	\
													Chromium Total*	11.6	\	9.97	\	19	11	\
													Hexavalent Chromium*	0.82	\	0.82(1)	\	0.41 U	2.1	1.2
													Lead*	6	\	5.5	\	4.9	20	13.9
													Manganese*	313	\	290	\	330	340	295
													Selenium*	0.32	\	0.32(1)	\	0.66	0.29	\
													Silver*	0.12	\	0.12(2)	\	0.1 U	0.1 U	\
													Zinc*	77.7	\	60.9	\	55	120	65.4
													Aroclor-1248	\	\	\	\	4.7	\	\
													Aroclor-1254	\	\	\	\	1.3	\	\
													SVOAs	\	\	\	\	U	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list includes only the PCBs that were detected.							
600-24	Dumping Area	100-IU-6	Not Documented	Not Documented	The site shows evidence of several former building foundations and walkways located along both sides of the roadway. A concrete pad exists with concrete cradles for a large water tank. A well is located in the concrete pad. The waste at this unit includes foundations, pipes (above- and belowgrade), paint cans, a pile of army fence posts, antifreeze cans, and miscellaneous debris. No evidence exists that hazardous, dangerous, or radioactive waste was disposed at this site.	Rejected	WSRF 97-031	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-26	Dumping Area	100-IU-6	2.4 m (8 ft)	Not Documented	The Technical Baseline Report states the site consists of a 2.4 m (8 ft) excavation containing a construction refuse burn pile. However, it also states that the author was unable to locate the site in the field.	Rejected	WSRF 97-032	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-27	Dumping Area	100-IU-6	Not Documented	Not Documented	The site contains wells, valve pits, foundations, and a dumping area. Building debris includes concrete footings, concrete pads, transite, sewer pipe, electrical wiring, and a large-diameter clay pipe with no incoming/outgoing pipes. The area surrounding the wells shows evidence of former roads and walkways that have been overgrown with weeds. No evidence exists that hazardous, dangerous, or radioactive waste was disposed at this site.	Rejected	WSRF 97-041	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-50	Depression/ Pit (nonspecific)	100-IU-6	274.3 m x 91.4 m (900 ft x 300 ft)	1943-1945	The site is the remnants (coal dust) of the coal pile that supplied coal to the Hanford Construction Camp residents. There are man-made mounds on the northeast corner of the site. No waste materials are in evidence.	Rejected	WSRF 97-033	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-52	Drain/Tile Field	100-IU-2	85.3 m x 39.6 m (280 ft x 130 ft)	Not Documented	The site is a depression. Potentially, the depression was used as a surface drain field. This site was assumed to be associated with the Pickling Acid Cribs (site code 600-106). A 1948 aerial photograph showed a ditch leading from the ice house wastewater drain field to the 600-52 basin. Samples were collected at three locations in the surface basin in 1992. A field walkdown conducted in April 2003 revealed no debris or anomalies. It was determined that no additional samples would be required. The site has been evaluated and determined to meet RAOs.	No Action	WSRF 2003-28	N/A	N/A	N/A	N/A	N/A	Chromium	43.1	\	\	\	\	\	\
													Copper	18.7	\	\	\	\	\	\
													Lead	7	\	\	\	\	\	\
													Manganese	263	\	\	\	\	\	\
													Nickel	27.8	\	\	\	\	\	\
													Zinc	554	\	\	\	\	\	\
													Nitrogen	16.3	\	\	\	\	\	\
													Chloride	11.5	\	\	\	\	\	\
													Fluoride	1.4	\	\	\	\	\	\
													Phosphate	2	\	\	\	\	\	\
													Sulfate	95	\	\	\	\	\	\
													These COCs represent chemicals with average concentrations above background that were subsequently used to calculate risk-based goals. The sampling focused on nitric acid, hydrofluoric acid, chromium, and zirconium. Several of the pickling acid samples and one of the 600-52 Surface Basin samples were analyzed for organics and selected radionuclides (cobalt-60, cesium-137, radiurn-226, and thorium-228). All organics, cobalt-60, and cesium-137 were undetected in all samples. Radium-226 and thorium-228 were detected at background levels.							
600-98	Sanitary Landfill	100-IU-2	140 m x 60 m (459 ft x 197 ft)	1850-1943	This site consisted of two unlined, pre-Hanford landfills. A small amount of scattered surface debris (cans, glass, and wood) was visible at dump area 1. Dump area 2 was an area of gravel ridges and surface scars. Both areas were used for the disposal of normal industrial and domestic wastes. Following operational use, the sites were backfilled. The results of an evaluation have demonstrated that the site was a pre-Hanford Site dumping area and borrow pit, and showed that there are no hazardous/dangerous materials present at the site and, accordingly, no residual contamination in the soil.	No Action	WSRF 2004-098	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-99	Burial Ground	100-IU-2	38.0 m x 41.0 m (125 ft x 135 ft)	1948-1955	This site contained minor construction equipment used by the J. A. Jones Construction Company, including wood scraps, concrete, and some metallic waste. However, the excavation records indicate that the site contents were removed to the 200 Area Burial Grounds in 1971 because of radioactive contamination in the landfill.	No Action	WSRF 2003-37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-100	Sanitary Landfill	100-IU-2	38.1 m x 15.2 m x 3.0 m (125 ft x 50 ft x 10 ft)	1850-1943	The 600-100 waste site was an unlined excavation that reportedly received industrial, commercial, and domestic farm wastes from approximately 1850 to 1943.	Interim Closed Out	WSRF 2010-082	4-Jan-10	18-Jan-10	28-Jul-10	3,683	15 cm (6 in.)	Aluminum	7670	\	\	\	5910	\	\
													Antimony*	0.566 JB	\	0.493	\	0.485 J	\	\
													Arsenic*	3.35	\	2.23	\	1.75	\	\
													Barium*	75.1	\	68.1	\	59.6	\	\
													Beryllium*	0.224	\	0.202	\	0.177	\	\
													Boron*	1.75	\	1.35	\	0.768 B	\	\
													Cadmium*	0.111 B	\	0.092	\	0.0973 B	\	\
													Calcium	3980	\	\	\	3530	\	\
													Chromium*	10.1	\	9.38	\	9.14	\	\
													Cobalt*	7.99	\	7.35	\	7.44	\	\
													Copper*	12.4	\	11.6	\	10.9	\	\
													Iron	23600	\	\	\	22000	\	\
													Lead*	6.69	\	4.54	\	4.05	\	\
													Magnesium	4360	\	\	\	3960	\	\
													Manganese*	349	\	313	\	301	\	\
													Molybdenum*	0.419 B	\	0.371	\	0.369 B	\	\
													Nickel*	11.3	\	10.1	\	11.3	\	\
													Potassium	1650	\	\	\	1130	\	\
													Selenium	0.304 U	\	\	\	0.213 U	\	\
													Silicon	656 J	\	\	\	345 J	\	\
													Silver	0.202 U	\	\	\	0.142 U	\	\
													Sodium	306	\	\	\	181	\	\
													Vanadium*	67.7	\	62.8	\	67.1	\	\
													Zinc*	45	\	40.8	\	49.9	\	\
													TPH - Diesel Range*	85.4 J	\	\	\	3.29 UJ	\	\
													TPH - Motor Oil*	111 J	\	\	\	3.78 J	\	\
													2,4,5-Trichlorophenoxy acetic acid*	0.00856 J	\	\	\	0.0341 U	\	\
													4-(2,4-Dichlorophenoxy) butanoic acid*	0.00802 J	\	\	\	0.0341 U	\	\
													Acetone*	0.00801 J	\	\	\	0.0118 U	\	\
													Benzo(a)pyrene*	0.00136 J	\	\	\	0.00332 U	\	\
													Benzo(b)fluoranthene*	0.00163 J	\	\	\	0.00332 U	\	\
													Benzo(g,h,i)perylene*	0.0037	\	\	\	0.00332 U	\	\
													Fluoranthene*	0.0136	\	\	\	0.00332 U	\	\
													Indeno(1,2,3-cd)pyrene*	0.00358	\	\	\	0.00332 U	\	\
													Pesticides	0.00123 UD	\	\	\	0.00131 UD	\	\
													PCBs	0.0133 U	\	\	\	0.0132 U	\	\
													Herbicides	0.0338 U	\	\	\	0.0341 U	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. This list only includes herbicides, VOAs, and PAHs that were detected.							
600-107	Crib	100-IU-6	4.6 m x 1.2 m x 2.4 m	1944-1950	The 600-107 site consisted of two small cribs located on the southwest corners of the 213-J & K Storage Vault Facility. The cribs were gravel-	No Action	WSRF 2003-033	N/A	N/A	8-May-03	N/A	1.8 (characterization sampling only).	Americium-241	4 U	\	\	\	\	\	\
													Cesium-137*	0.084	\	\	\	\	\	\

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
			(15 ft x 4 ft x 8 ft)		filled concrete culverts. Very little water solution ever entered this unit. The distributor piping was removed and inspected. Rust scale taken from the interior of the pipes was found to be free of radioactivity background levels. The unit was removed from radiation zone status on November 11, 1974.								Cobalt-60	13 U	\	\	\	\	\	\
													Europium-152	27 U	\	\	\	\	\	\
													Europium-154	27 U	\	\	\	\	\	\
													Europium-155	25 U	\	\	\	\	\	\
													Gross alpha	7.7	\	\	\	\	\	\
													Gross beta	17.8	\	\	\	\	\	\
													Plutonium-238	2.4 U	\	\	\	\	\	\
													Plutonium-239/240	2.4 U	\	\	\	\	\	\
													Potassium-40	15.2	\	\	\	\	\	\
													Radium-226	0.644	\	\	\	\	\	\
													Radium-228	0.987	\	\	\	\	\	\
													Thorium-228	1.02	\	\	\	\	\	\
													Thorium-232*	0.987	\	\	\	\	\	\
													Uranium-235	39 U	\	\	\	\	\	\
													Uranium-238	1100 U	\	\	\	\	\	\
													Asbestos	ND	\	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs.							
600-108	Storage	100-IU-6	12.2 m x 3.7 m x 2.4 m (40 ft x 12 ft x 8 ft)	1944-2001	This site, 600-108, refers to the 213-K Vault. The other half of the facility is the 213-J Vault, 600-257. The vaults were originally constructed for storage of Hanford Site plutonium product in containers. They were used only briefly (1944-1947) for that purpose. They were subsequently used to store explosives, ammunition, and drums of equipment contaminated with radioactive sodium. The site was remediated beginning in November 2010 with verification sampling occurring in March 2011.	Interim Closed Out	WSRF 2011-051	8-Nov-10	20-Jan-11	1-Mar-11	2,886	2	Americium-241	0.215 U	\	\	\	\	\	\
													Cesium-137	0.032 U	\	\	\	\	\	\
													Cobalt-60	0.038 U	\	\	\	\	\	\
													Europium-152	0.084 U	\	\	\	\	\	\
													Euorpium-154	0.126 U	\	\	\	\	\	\
													Europium-155	0.176 U	\	\	\	\	\	\
													Potasium-40	17.9	\	\	\	\	\	\
													Radium-226	0.776	\	\	\	\	\	\
													Radium-228	1.1	\	\	\	\	\	\
													Thorium-228	1.04	\	\	\	\	\	\
													Thorium-232	1.1	\	\	\	\	\	\
													Uranium-235	0.20 U	\	\	\	\	\	\
													Uranium-238	4.34 U	\	\	\	\	\	\
													Plutonium-238	0.404 U	\	\	\	\	\	\
													Plutonium-239/240	0.323 U	\	\	\	\	\	\
													Acenaphthene*	0.0452	\	\	\	\	\	\
													Acenaphthylene*	0.0506 J	\	\	\	\	\	\
													Benzo(b)fluoranthene*	0.0101	\	\	\	\	\	\
													Benzo(ghi)perylene*	0.00205 J	\	\	\	\	\	\
													Benzo(k)fluoranthene*	0.00248 J	\	\	\	\	\	\
													Chrysene*	0.00187 J	\	\	\	\	\	\
													Fluoranthene*	0.0103	\	\	\	\	\	\
													Phenanthrene*	0.00328 J	\	\	\	\	\	\
													Pyrene*	0.0196	\	\	\	\	\	\
													PCBs	0.0149 U	\	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list includes only the PAHs that were detected.							

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-109	Sanitary Landfill	100-IU-6	30.5 m x 30.5 m x 6.1 m (100 ft x 100 ft x 20 ft)	1943 -1945	The 600-109 waste site was originally described as an area of surface debris within a gravel pit area. Domestic wastes were disposed of at this site from 1943 to 1945. A large pile of river rock was located in the center of the pit area, and the remainder of the site appeared to have been bulldozed and covered with clean soil. Debris observed on the surface of the waste site included metal, glass, fabric, concrete, and rubber. Historical documentation indicates that the landfill did not accept radiological or toxic dumping.	Interim Closed Out	WSRF 2010-075	1-Jan-10	1-Mar-10	29-Jun-10 6-Jul-10 13-Jul-10	9108 BCM	4.6 m							Stockpile	Overburden
													Aluminum	10000	\	\	\	\	9610	9580
													Antimony	0.375	\	\	\	\	0.954 J	0.541 U
													Arsenic*	13.6	\	5.09	\	\	41.1	15.3
													Barium*	122	\	88.1	\	\	111	99
													Beryllium*	0.349	\	0.252	\	\	0.314	0.312
													Boron*	1.89	\	1.02	\	\	2.86	2.53
													Cadmium*	0.145	\	0.116	\	\	0.346	0.191
													Calcium	6690	\	\	\	\	6400	4950
													Chromium*	13.7	\	8.61	\	\	12.4	13.3
													Cobalt*	11.2	\	9.86	\	\	8.3	7.52
													Copper*	17.6	\	15.7	\	\	22.2	12
													Iron	30700	\	\	\	\	23900	21900
													Lead *	47.7	\	19.7	\	\	340	71.9
													Magnesium	6170	\	\	\	\	5040	4620
													Manganese*	403	\	369	\	\	398	354
													Molybdenum*	0.581	\	0.368	\	\	0.515 B	0.233 B
													Nickel*	13.7	\	11.3	\	\	11.4	10.8
													Potassium	1770	\	\	\	\	2040	2190
													Selenium	0.307 U	\	\	\	\	0.272 U	0.271 U
													Silicon	1020	\	\	\	\	947 J	431
													Silver	0.205 U	\	\	\	\	0.181 U	0.18 U
													Sodium	418	\	\	\	\	271	199
													Vanadium*	90.1	\	80.6	\	\	56.9	54.5
													Zinc *	57.7	\	52.7	\	\	124	52.8
													TPH-diesel*	3.52 U	\	\	\	\	19.2	3.32 U
													TPH-motor oil*	17.1	\	\	\	\	47.7 J	26.6
													Asbestos	\	\	\	\	ND	\	\
													Acenaphthene*	0.00352 U	\	\	\	\	0.03	0.006
													Anthracene*	0.00144 J	\	\	\	\	0.00212 J	0.00334 U
													Benzo(a)anthracene*	0.00616	\	\	\	\	0.00485	0.0018 J
													Benzo(a)pyrene*	0.00564	\	\	\	\	0.00753	0.00204 J
													Benzo(b)fluoranthene*	0.0102	\	\	\	\	0.012	0.00245 J
													Benzo(g,h,i)perylene*	0.00444	\	\	\	\	0.0158	0.00359
													Benzo(k)fluoranthene*	0.00379	\	\	\	\	0.00351	0.00132 J
													Chrysene*	0.00639	\	\	\	\	0.00341 U	0.00231 J
													Dibenz(a,h)anthracene*	0.00352 U	\	\	\	\	0.00102 J	0.00334 U
													Fluoranthene*	0.00916	\	\	\	\	0.0202	0.014
													Fluorene*	0.00159 J	\	\	\	\	0.00341 U	0.00334 U
													Indeno(1,2,3-cd)pyrene*	0.0151	\	\	\	\	0.0353	0.00334 U
													Phenanthrene*	0.00243 J	\	\	\	\	0.00633	0.00266 J
													Pyrene*	0.003 J	\	\	\	\	0.0418	0.00357
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list includes only the PAHs that were detected.							
600-110	Sanitary Landfill	100-IU-6	61 m x 61 m x 6.1 m (200 ft x 200 ft x 20 ft)	1850-1943	The 600-110 site, known as the Hanford Townsite Landfill, was an unlined excavation used to dispose of typical industrial and domestic wastes from 1850 to 1943. Following the site's use, it was backfilled with clean fill. The no action decision for the 600-110 site is supported based on reviews of the site history, field observations, geophysical surveys, and the confirmatory field investigation results. No hazardous debris or stained soil was found at the surface of the site or in the subsurface soil during excavation of anomalous areas.	No Action	WSRF 2004-062	N/A	N/A	Apr-2004 (Confirmatory sampling)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-111	Crib	100-IU-6	2.4 m x 2.4 m x 2.4 m (7.9 ft x 7.9 ft x 7.9 ft)	1949-1951	The P-11 Project was developed as an experimental facility to support proper design of new chemical separation facilities and was a prerequisite to increased batch size in the 200 Area process. The site consisted of the P-11 Critical Mass Laboratory, a crib, two septic systems, associated tile fields and pipelines, and underground piping and remaining soil contamination. On November 16, 1951, a critical excursion (an uncontrolled criticality) resulted in extensive plutonium contamination to the interior of the 120 Building. During the final stages of decontamination work to reactivate the facility, a fire broke out in the southwest part of the building, apparently from spontaneous ignition of decontamination materials. The fire gutted the storage room and chemistry laboratory, burned through the ceiling, melted the aluminum filter ducts, and set fire to the exhaust filters. Contamination was extensive in this area and throughout the attic after the vent system was breached. The spread of contamination was augmented by fire control measures, resulting in radioactive particulates being washed to the outside of the building along the foundation and door thresholds. The contamination was fixed using sealants and concrete grout. The building was sealed off and abandoned in consideration of the high risk and cost to decontaminate and restore the facility for continued criticality studies.	Interim Closed Out	WSRF 2004-065	25-Feb-08	25-Mar-08	21-Apr-08	6,250	4.6	Aluminum	11500	\	\	\	\	\	\
													Antimony*	1.2	\	\	\	\	\	\
													Arsenic*	7	\	5.6	\	\	\	\
													Barium*	170	\	154	\	\	\	\
													Beryllium*	1.1	\	0.97	\	\	\	\
													Boron*	1.2	\	\	\	\	\	\
													Cadmium	0.14 U	\	\	\	\	\	\
													Calcium	5620 C	\	\	\	\	\	\
													Chromium (total)*	12.7	\	11.6	\	\	\	\
													Cobalt*	11.6	\	10.6	\	\	\	\
													Copper*	26.5 C	\	22.8	\	\	\	\
													Iron	40800	\	\	\	\	\	\
													Lead*	21.4	\	12.7	\	\	\	\
													Magnesium	5670	\	\	\	\	\	\
													Manganese*	703 C	\	501	\	\	\	\
													Mercury*	0.03	\	\	\	\	\	\
													Molybdenum*	1.3	\	1	\	\	\	\
													Nickel*	16	\	14.5	\	\	\	\
													Potassium	1760	\	\	\	\	\	\
													Selenium	1.7 U	\	\	\	\	\	\
													Silicon	513	\	\	\	\	\	\

Table E1. Waste Site Description and Status Table

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Silver	0.29 U	\	\	\	\	\	\
													Sodium	200 C	\	\	\	\	\	\
													Vanadium*	86.5	\	75.9	\	\	\	\
													Zinc*	66.7	\	61.6	\	\	\	\
													PCBs	0.014 U	\	\	\	\	\	\
													Bis(2-ethylhexyl) phthalate*	0.062J	\	0.088	\	\	\	\
													Isophorone*	0.02 J	\	\	\	\	\	\
													Pyrene*	0.018 J	\	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes SVOAs that were detected.							
600-120	Burn Pit	100-IU-2	110 m x 65 m (361 ft x 213 ft)	1943-1948	The site was a burn pit that was used for industrial and commercial wastes. The site appeared to have been backfilled with coal ash. The waste included solvents, waste oils, and flammable wastes. The site may have been used to dispose of other solid wastes. Because of their proximity, remediation of the 600-120 and 600-297 sites occurred together.	Interim Closed Out	WSRF 2004-063	7-Jan-10	15-Mar-10	27-Sep-10	20491	4		Excavation	Staging Pile	Excavation	Staging Pile	N/A	Overburden	N/A
													Aluminum	7750	8000	\	\	\	7260 J	\
													Antimony	0.571 U	0.588 U	\	\	\	0.523 UJ	\
													Arsenic	3.26	3.04	2.87	2.68	\	2.48	\
													Barium	70.3	75	64.7	64.6	\	67.3	\
													Beryllium	0.269	0.279	0.0243	0.238	\	0.241	\
													Boron	8.98	4.33	4.14	2.66	\	2.1	\
													Cadmium	0.120 B	0.122 B	0.107	0.106	\	0.146 B	\
													Calcium	5890	11300 J	\	\	\	3500 J	\
													Chromium	13.4	11	10.9	9.56	\	9.17 J	\
													Cobalt	6	6.48	5.62	5.76	\	5.97	\
													Copper	16.6	12.8	12.2	11.5	\	10.9	\
													Iron	18000	20700	\	\	\	18600	\
													Lead	7.72	3.85	4.46	3.27	\	4.6	\
													Magnesium	4430	4140	\	\	\	3470 J	\
													Manganese	280	320	265	272	\	289	\
													Molybdenum	0.318 B	0.317 B	0.282	0.264	\	0.272 B	\
													Nickel	13.3	11.3	10.6	9.57	\	8.75	\
													Potassium	1560	1930	\	\	\	1630	\
													Selenium	0.286 U	0.294 U	\	\	\	0.261 U	\
													Silicon	204	255	\	\	\	211 J	\
													Silver	0.190 U	0.196 U	\	\	\	0.174 U	\
													Sodium	320	281	\	\	\	203	\
													Vanadium	49.3	57.4	44.4	46.8	\	50.6 J	\
													Zinc	35.1	40.4	33.5	34.8	\	67.6	\
													TPH - Diesel Range	3.52 U	3.44 UJ	\	\	\	3.40 UJ	\
													TPH - Motor Oil	18.5	52.4 J	10.9	19.2	\	55.4 J	\
													PCBs	U	U	\	\	\	U	\
													Beta-BHC	0.00141 UD	0.0015 JD	\	\	\	0.00136 UD	\
													4,4'-DDE	0.00141 UD	0.00171 JD	\	\	\	0.00136 UD	\
													Fluorene	0.00356 U	0.00816	\	\	\	0.0178	\
													Acenaphthene	0.00381	0.0136	0.00272	\	\	0.0158	\
													Acenaphthylene	0.00356 U	0.0872	\	\	\	0.000961 J	\
													Anthracene	0.00214 J	0.000862 J	0.00173	\	\	0.015 U	\
													Benzo(a)anthracene	0.000856 J	0.00267 J	\	\	\	0.00207 J	\
													Benzo(a)pyrene*	0.00225 J	0.00803	\	\	\	0.00542	\
													Benzo(b)fluoranthene*	0.00148 J	0.00818	\	\	\	0.00776	\
													Benzo(ghi)perylene*	0.00448	0.0318	\	\	\	0.022	\
													Benzo(k)fluoranthene*	0.000906 J	0.00365	\	\	\	0.00322 J	\
													Chrysene	0.00215 J	0.000997 J	\	\	\	0.00138 J	\
													Dibenz(a,h)anthracene*	0.00094 J	0.00701	\	\	\	0.00112 J	\
													Fluoranthene*	0.00282 J	0.0265	\	\	\	0.0618	\
													Indeno(1,2,3-cd)pyrene	0.00262 J	0.19	\	\	\	0.0244	\
													Naphthalene*	0.00356 U	0.0122	\	\	\	0.0894	\
													Phenanthrene*	0.00185 J	0.00725	\	\	\	0.0114	\
													Pyrene*	0.00428	0.00629	\	\	\	0.00923	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list includes only PAHs and pesticides that were detected.							
600-121	Dumping Area	100-IU-2	30 m x 15 m (98 ft x 49 ft)	Not Documented	The site is several small coal ash piles located just east of the Pickling Acid Cribs. The waste is coal ash that has been placed in piles (discernible units).	Rejected	WSRF 97-039	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-122	Depression/ Pit (non-specific)	100-IU-2	430 m x 203 m (1411 ft x 666 ft)	<1943	The site appears to predate Manhattan Engineering District activities on the site and was probably an irrigation reservoir. The site is clearly seen as a marsh on a United States Department of Interior Geological Survey, Washington, Hanford Quadrangle, 1924 Edition map reprinted in 1947.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-123	Dumping Area	100-IU-2	1.2 m x 0.9 m x 0.9 m (4 ft x 3 ft x 3 ft)	Not Documented	The site was a farm site. The waste is farm debris, including sheep fencing, irrigation and other farming equipment, scattered household debris, and foundations for building. No evidence of army occupation remains. There is no evidence of any hazardous materials, and is a residential, not industrial site.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-124	Burn Pit	100-IU-2	40 m x 25 m (131 ft x 82 ft)	Not Documented	The site was a burn area where there was evidence of surface burning and paint disposal. The entire area was littered with burned wood, partly burned roofing materials, glass, nails, metallic debris, transite, and isolated paint cans. There was evidence of surface disposal of	Interim Closed Out	WSRF 2010-094	11-Jan-10	18-Jan-10	13-Sep-10	5,811	1	Aluminum	7840	\	\	\	\	7970	\
													Antimony	0.582 U	\	\	\	\	0.286 BJ	\
													Arsenic *	2.42	\	2.11	\	\	2.95	2.27

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
					and isolated paint cans. There was evidence of surface disposal of paint materials in the form of dried paint chips and deposits. There was also a large area with decaying timbers laying in many parallel rows.								Barium *	75.1	\	67.9	\	\	74	66.6
													Beryllium*	0.281	\	0.256	\	\	0.286	0.255
													Boron*	1.32 B	\	1.25	\	\	4.31	2.15
													Cadmium*	0.288	\	0.167	\	\	0.225	0.168
													Calcium	5100	\	\	\	\	5000	\
													Chromium*	13.1	\	10.5	\	\	17	11.8
													Cobalt*	7.05	\	6.69	\	\	6.87	6.54
													Copper*	13.6	\	12.2	\	\	27.1	15.9
													Iron	24700	\	\	\	\	24600	\
													Lead*	5.97	\	3.67	\	\	6.24	5.09
													Magnesium	4360	\	\	\	\	4320	\
													Manganese*	348	\	322	\	\	338	311
													Molybdenum*	0.515 B	\	0.456	\	\	1.63 B	0.618
													Nickel*	10.6	\	10	\	\	13.5	11.2
													Potassium	1360	\	\	\	\	1670	\
													Selenium	0.291 U	\	\	\	\	0.268 U	\
													Silicon	788	\	\	\	\	919	\
													Silver	0.194 U	\	\	\	\	0.179 U	\
													Sodium	280	\	\	\	\	280	\
													Vanadium*	73.8	\	68.5	\	\	72.4	66.6
													Zinc*	46.8	\	42.7	\	\	88.2	47.1
													TPH-diesel	65.1 U	\	\	\	\	16.4 U	\
													TPH-motor oil*	4.22 J	\	\	\	\	196 D	51.3
													Acenaphthene*	0.192 D	\	\	\	\	0.0013	\
													Acenaphthylene	1.41 D	\	\	\	\	U	\
													Benzo(a)anthracene*	0.0114 JD	\	\	\	\	U	0.00276
													Benzo(a)pyrene*	0.0183 D	\	\	\	\	U	0.003
													Benzo(b)fluoranthene*	0.016 D	\	\	\	\	U	0.00431
													Benzo(g,h,i)perylene*	0.0238 D	\	\	\	\	U	0.00386
													Benzo(k)fluoranthene*	0.00731 JD	\	\	\	\	0.00467	\
													Chrysene*	0.0261 D	\	\	\	\	U	0.00271
													Dibenz(a,h)anthracene*	0.00405 JD	\	\	\	\	0.00198	\
													Fluoranthene*	0.0761 D	\	\	\	\	U	0.00692
													Fluorene*	0.0253 D	\	\	\	\	0.00333	\
													Indeno(1,2,3-cd)pyrene	0.0116	\	\	\	\	0.0205	\
													Naphthalene*	0.113 D	\	\	\	\	U	\
													Phenanthrene*	0.156	\	\	\	\	U	0.00298
													Pyrene*	0.0419 D	\	\	\	\	U	0.00627
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes PAHs that were detected.							

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-125	Trench	100-IU-2	8 m x 30 m x 3 m (25 ft x 100 ft x 10 ft)	Not Documented	The waste site, identified as an open trench in a 1948 photograph (BHI-00448), was a landfill measuring approximately 8 x 30 m (25 x 100 ft) and extending to approximately 3 m (10 ft) below ground surface. In 1999, the site was a sandy depression with wood, ceramic, asbestos insulation, and metal debris on the surface.	Interim Closed Out	WSRF 2010-088	11-Feb-10	17-Feb-10	1-Aug-10	16-Aug-10 17-Aug-10	0.8 m (2 ft)	Aluminum	6280	\	\	\	\	10300 J	11100 J
													Antimony*	0.408 B	\	\	\	\	0.445 BJ	0.434 BJ
													Arsenic*	2.73	\	\	\	\	3.24	3.15
													Barium*	62.2	\	\	\	\	83.4	89.6
													Beryllium*	0.214	\	\	\	\	0.336	0.352
													Boron*	0.796 B	\	\	\	\	2.06	2.21
													Cadmium*	0.107 B	\	\	\	\	0.164	0.159
													Calcium	4340	\	\	\	\	3770	3690
													Chromium*	8.89	\	\	\	\	13.6	14.8
													Cobalt*	7.11	\	\	\	\	7.46	7.5
													Copper*	15.3	\	\	\	\	13	12
													Iron	22800	\	\	\	\	25000	23700
													Lead*	2.62	\	\	\	\	5.03	4.98
													Magnesium	4250	\	\	\	\	4170	4180
													Manganese*	294	\	\	\	\	344	369
													Molybdenum*	0.568 B	\	\	\	\	0.412 B	0.405 B
													Nickel*	11.5	\	\	\	\	10.8	11.1
													Potassium	950	\	\	\	\	2080	2070
													Selenium	0.301 U	\	\	\	\	0.273 U	0.233 U
													Silicon	1490	\	\	\	\	1780 J	1620 J
													Silver	0.201 U	\	\	\	\	0.182 U	0.155 U
													Sodium	367	\	\	\	\	268	271
													Vanadium*	69.5	\	\	\	\	65	63.8
													Zinc*	42.6	\	\	\	\	45.2	45.4
													Asbestos	ND	\	\	\	\	ND	ND
													TPH-diesel	3.34 U	\	\	\	\	3.32 U	3.33 U
													TPH-motor oil	10 U	\	\	\	\	16.5 J	12.7 J
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs.							
600-126	Depression/Pit (non-specific)	100-IU-2	1.22 m (4 ft)	Not Documented	The site is a subsurface concrete structure that appears to be about 1.2 m (4 ft) across. Soil around the structure has subsided into its underground void space. A few feet behind is a vertical pipe that opens into the void beneath the structure. An effort was made in the fall of 1999 to backfill the open holes and subsidences in this area to eliminate physical hazards.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-127	Storage	100-IU-2	55 m x 35 m (180 ft x 115 ft)	Not Documented	The site was two loading docks and a rectangular area surrounded by a low soil berm. On the top of these beams were wooden shims placed so as to suggest that they once supported large round horizontal tanks associated with fuel storage. Removal of small areas of the ash ground cover revealed soil discoloration and evidence of petroleum product contamination. Adjacent to and on the south side of the berm there appeared to have been bulk dumping of heavy oils or other petroleum product.	Interim Closed Out	WSRF 2004-064	19-Jan-10	7-Jun-10	13-Dec-10 15-Dec-10 27-Dec-10 28-Dec-10	43,163	8.5		Shallow Zone	West Stockpile	Shallow Zone 95% UCL	West Stockpile 95% UCL	Focused Sample	Overburden	\
													Aluminum	10400	12100	\	\	4890	10400	\
													Antimony	0.41 U	0.43 U	\	\	0.42 U	0.44 U	\
													Arsenic*	3.8	4	2.8	3.3	2.6	3.8	\
													Barium*	86.4	158	63.1	111	55.6	121 C	\
													Beryllium*	0.39	0.38	0.28	0.29	0.18	0.21 B	\
													Boron	1.1 B	9.5	\	3.6	1.1 U	3.7	\
													Cadmium*	0.082 B	0.21 B	0.056	0.14	0.045 U	0.15 B	\
													Calcium	11100	6280 C	\	\	5960	4780	\
													Chromium*	19.6	14.0 C	13.3	12.8	9.6	11.7 C	\
													Cobalt*	7.2	9.2 L	5.6	8.9	3.4	7.9 L	\
													Copper*	21.9	16.8	15.3	15.2	9.0	15.5	\
													Iron	18100	24600	\	\	10600	21100	\
													Lead*	5.7	9.3	3.9	6.8	2.9	10.6	\
													Magnesium	6260	4910 JL	\	\	3510	4670	\
													Manganese**	356	438	265	419	203	386	\
													Molybdenum	0.28 U	0.29 U	\	\	0.41 B	0.30 U	\
													Nickel*	18.6	14.0 L	12.9	12.4	8.9	11.9 L	\
													Potassium	2130	2630	\	\	818	2420	\
													Selenium	0.92 U	0.97 U	\	\	0.89	0.99 U	\
													Silicon	248	376 L	\	\	142	173 JL	\
													Silver	0.17 U	0.18 U	\	\	0.18 U	0.18 U	\
													Sodium	374	279	\	\	168	290	\
													Vanadium*	37.8	52.3	33.9	49.9	21.1	41.9	\
													Zinc*	46	101 L	33.8	58.6	23	48.0 L	\
													TPH - Diesel Range*	1.8 JB	12	\	\	0.76 JB	34	\
													TPH - Diesel Range EXT*	3.4 JB	28	\	12.3	1.4 JB	83	\
													Benzo(a)pyrene*	0.007 U	0.0075 U	\	\	0.0071 U	0.009 JX	\
													Benzo(b)fluoranthene*	0.0046 U	0.0049 U	\	\	0.0046 U	0.0089 JX	\
													1,2-Dichloroethene*	0.00042 U	0.00081 JB	\	\	0.00042 U	0.00047 U	\
													Acetone*	0.017 JB	0.011 J	\	\	0.014 J	0.0064 U	\
													Methylene chloride*	0.0029 JB	0.0051 JB	0.0026	0.0041	0.0018 JB	0.0088 JB	\
													Benzo(ghi)perylene*	0.017 U	0.018 U	\	\	0.017 U	0.021 J	\
													Bis(2-ethylhexyl)phthalate*	0.29 JB	0.29 J	0.111	0.106	0.12 JB	0.054 U	\
													Diethylphthalate*	0.028 U	0.065 J	\	\	0.028 U	0.030 U	\

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Phenanthrene*	0.038 JB	0.037 JB	\	\	0.036 JB	0.021 J	\
													Phenol*	0.028 J	0.038 J	\	0.031	0.028 J	0.023 J	\
													Pyrene*	0.013 U	0.014 U	\	\	0.013 U	0.043 J	\
														Deep Zone	\	Deep Zone 95% UCL	\	North Loading Dock	South Stockpile	South Stockpile 95% UCL
													Aluminum	5840	\	\	\	10300	11400	\
													Antimony	0.40 UJ	\	\	\	0.39 U	0.43 U	\
													Arsenic*	2.8	\	2.5	\	2.7	3.6	3.3
													Barium*	67.6	\	44.6	\	96.2 C	140 C	108
													Beryllium*	0.19	\	0.16	\	0.22	0.3	0.24
													Boron	1.6	\	\	\	1.3 B	10.8	5.4
													Cadmium*	0.093 B	\	0.064	\	0.14 B	0.13 B	0.12
													Calcium	6740	\	\	\	3730	6150 C	\
													Chromium*	10.9	\	9.6	\	12.6 C	13.1 C	12.1
													Cobalt*	5.8	\	4.2	\	8.3 L	8.8 L	8.3
													Copper*	11.7	\	10.2	\	15.6	16.6	15.8
													Iron	11500	\	\	\	21600	22500	\
													Lead*	5.1	\	3.5	\	7.1	7.4	6.5
													Magnesium	4050	\	\	\	4520	4810	\
													Manganese*	287	\	228	\	413 L	407 L	390
													Molybdenum	0.28 B	\	\	\	0.27 U	0.29 U	\
													Nickel*	11.2	\	9.8	\	12.1 L	13.6 L	12.3
													Potassium	946	\	\	\	2160	2540	\
													Selenium	0.91 U	\	\	\	0.89 U	0.97 U	\
													Silicon	182 J	\	\	\	187 JL	264 L	\
													Silver	0.17 U	\	\	\	0.17 U	0.18 U	\
													Sodium	175	\	\	\	257	303	\
													Vanadium*	26.2	\	22	\	41.7	48.8	45
													Zinc*	26.2	\	24.6	\	45.5 L	46.8 L	44.2
													TPH - Diesel Range*	22	\	\	\	3.1 J	63	\
													TPH - Diesel Range EXT*	24	\	\	\	8.9	110	37.7
													Benzo(a)pyrene*	0.0064 U	\	\	\	0.0068 U	0.017 NX	\
													Benzo(b)fluoranthene*	0.0042 U	\	\	\	0.0045 U	0.030 JK	\
													Benzo(k)fluoranthene*	0.0039 U	\	\	\	0.0042 U	0.0076 JXN	\
													Chrysene*	0.0048 U	\	\	\	0.0052 U	0.019 JX	\
													Indeno(1,2,3-cd)pyrene*	0.012 U	\	\	\	0.013 U	0.016 JN	\
													Phenanthrene*	0.012 U	\	\	\	0.013 U	0.026 J	\
													Pyrene*	0.012 U	\	\	\	0.013 U	0.048	\
													Acetone*	0.012 J	\	\	\	0.0059 U	0.0059 U	\
													Methylene chloride*	0.0018 JB	\	\	\	0.0049 JB	0.0044 JB	\
													Anthracene*	0.018 U	\	\	\	0.019 U	0.028 J	\
													Benzo(ghi)perylene*	0.017 U	\	\	\	0.018 U	0.032 J	\
													Bis(2-ethylhexyl)phthalate*	0.095 JB	\	\	\	0.050 U	0.99	0.33
													Di-n-octylphthalate*	0.200 J	\	\	\	0.016 U	0.016 U	\
													Phenol*	0.019 U	\	\	\	0.020 U	0.026 J	0.024
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list includes only the PAHs, VOCs, and SVOCs that were detected.							
600-128	Dumping Area	100-IU-2	2 m (6.6 ft) diameter	Not Documented	The site had been an oil dump area that included several canister-type oil filters. There were also several small areas with broken glass, cans, and other metal debris documented. Sampling was performed at this site. Surface debris was removed in the spring of 2003.	Interim Closed Out	WSRF 2003-039	19-May-03	19-May-03	20-May-03	N/A	0.25	Arsenic	2.2	\	\	\	\	\	\
													Barium	71.1	\	\	\	\	\	\
													Cadmium	0.33	\	\	\	\	\	\
													Chromium	10.9 C	\	\	\	\	\	\
													Lead	8.6 C	\	\	\	\	\	\
													Mercury	0.02 U	\	\	\	\	\	\
													Selenium	0.41 U	\	\	\	\	\	\
													Silver	0.12 U	\	\	\	\	\	\
													TPH	176	\	\	\	\	\	\
													Bis(2-ethylhexyl) phthalate	0.17 JD	\	\	\	\	\	\
													PCBs	0.15 UJD	\	\	\	\	\	\
													This list only includes SVOAs that were detected.							
600-129	Dumping Area	100-IU-2	203 m x 150 m (666 ft x 492 ft)	Not Documented	The site was a pre-Manhattan Engineering District era waste dump. The area appeared to have been used as a burn pit for flammable wastes, as well as a dump. It was presumed this dump area was used by residents of White Bluffs and later by the Manhattan Engineering District to a lesser degree. The site was in a large depression and was littered with domestic and industrial debris. Industrial wastes were found at the southern edge of the site. The basis for reclassification is supported, based on reviews of site history, a site walkdown, and removal of suspected hazardous debris. These results show that remaining material (debris and soil) are protective of human health, groundwater, and the Columbia River.	Interim Closed Out	WSRF 2004-136	4-Jul-10	7-Oct-10	N/A	Not Specified	0	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-130	Fabrication Shop	100-IU-2	270 m x 270 m (886 ft x 886 ft)	Not Documented	The site consists of remnants of the following facilities: valve box and 5 cm (2 in.) water line, concrete foundation, warehouse foundation, concrete sump attached to warehouse foundation, debris pile, foundation, potential smokestack base, and small subsidences that appear to be rotted wooden poles. The waste is miscellaneous trash and debris consisting of wood, metal parts, glass, burned building materials, and debris. No known hazardous materials were used at the facility.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-131	Dumping Area	100-IU-2	Not Documented	Not Documented	The site included the remnants of the Special Fabrication Shop and Warehouse, boiler house, warehouse, loading dock/well, and a water station. The waste was miscellaneous trash and debris, including concrete, transite, asphalt shingles, glass, and metallic debris. Transite contains asbestos, which is a hazardous substance. Surface and subsurface soils were collected along with one representative sample of an asphalt shingle.	Interim Closed Out	WSRF 2003-45	Apr-03	May-03	8-May-03 12-May-03	N/A	1.7	Arsenic*	6	\	\	\	\	\	\
													Barium*	57.3	\	\	\	\	\	\
													Cadmium*	0.06	\	\	\	\	\	\
													Chromium*	10.6	\	\	\	\	\	\
													Lead*	2.7	\	\	\	\	\	\
													Mercury	0.21	\	\	\	\	\	\
													Selenium	1.4	\	\	\	\	\	\
													Silver	1.6	\	\	\	\	\	\
													Sulfide	33.2 U	\	\	\	\	\	\
													TPH*	44.8	\	\	\	\	\	\
													Asbestos	ND	\	\	\	\	\	\
													Aroclor-1254	3.2	\	\	\	\	\	\
													Bis(2-ethylhexyl) phthalate	0.032 J	\	\	\	\	\	\
													Pesticides	U	\	\	\	\	\	\
													Herbicides	U	\	\	\	\	\	\
													*The analytes represent those contaminants considered as COPCs. All COPC concentrations were below RAGs. This list only includes SVOAs and PCBs detected.							
600-132	Depression/ Pit (non-specific)	100-IU-2	165 m x 112 m (541 ft x 367 ft)	Not Documented	The site was a large open borrow pit. The floor was mostly gravel and cobble with rabbitbrush and grasses. It contained scattered debris, such as broken concrete and pieces of metal. Surface debris was removed in 2003. Thirteen samples of soil, white chip material, and roofing shingles were collected and analyzed.	Interim Closed Out	WSRF 2003-40	Apr-03	Apr-03	19-May-03 23-May-03	N/A	<1 (confirmatory sampling only)	Arsenic*	2.6	\	\	\	\	\	\
													Barium*	59.7	\	\	\	\	\	\
													Cadmium*	0.4	\	\	\	\	\	\
													Chromium *	17.1	\	\	\	\	\	\
													Cyanide	0.51 U	\	\	\	\	\	\
													Lead*	12.3	\	\	\	\	\	\
													Mercury	0.02 U	\	\	\	\	\	\
													Selenium*	0.47	\	\	\	\	\	\
													Silver	0.12 U	\	\	\	\	\	\
													Sulfide	40.5 UJ	\	\	\	\	\	\
													TPH*	8.5	\	\	\	\	\	\
													Asbestos	ND	\	\	\	\	\	\
													Aroclor-1260*	0.032	\	\	\	\	\	\
													SVOAs	U	\	\	\	\	\	\
													Pesticides	U	\	\	\	\	\	\
													Herbicides	U	\	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes SVOAs and PCBs that were detected.							
600-135	Burial Ground	100-IU-2	1 - 270 m (886 ft) diameter 2 - 90 m x 40 m (969 ft x 431 ft)	Not Documented	This unit includes two sites. One site is called the Spare Parts Machine Shop Landfill, also known as the horseshoe pit. It was once a borrow pit that was later used as a waste disposal site. The second site is also a pit located directly west of the Spare Parts Machine Shop Landfill. No documentation could be found to indicate the purpose of the pit. In November 1997, ERC staff removed scattered transite siding. The only waste remaining on the site is miscellaneous nonhazardous debris.	Rejected	WSRF 97-042	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-136	Storage	100-IU-2	Not Documented	Not Documented	The site is a warehouse area within the White Bluffs Townsite. It is covered with cheatgrass with some rabbitbrush and tumbleweed growth. There is very little evidence of the former warehouse buildings except for a few pieces of wood.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-138	Maintenance Shop	100-IU-2	Not Documented	Not Documented	The site is the remains of a fumigation building. Fumigants are small, volatile molecules that become gases at temperatures above 4.4°C (40°F). The same physical properties that make fumigants highly penetrating also negate the chance that any of the pesticides remain at the site. The fumigants would have readily escaped into the atmosphere because of their small size and volatility.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-139	Dumping Area	100-IU-2	30 m x 20 m (98 ft x 66 ft)	Not Documented	The site was an area thought to be associated with an automotive repair shop. Surface debris included numerous battery caps, engine gaskets, dumped waste oils, and fragments of tail light lenses. The contaminated soil and debris was removed in May 2003. A sample of the underlying soil was collected and analyzed to verify attainment of the remedial action goals.	Interim Closed Out	WSRF 2003-41	Apr-03	May-03	15-May-03	N/A	0.41	Arsenic*	2.4	\	\	\	\	\	\
													Barium*	72	\	\	\	\	\	\
													Cadmium	0.04 U	\	\	\	\	\	\
													Chromium*	12 J	\	\	\	\	\	\
													Cyanide	0.41 U	\	\	\	\	\	\
													Lead*	4.4	\	\	\	\	\	\
													Mercury	0.02	\	\	\	\	\	\
													Selenium	0.4 U	\	\	\	\	\	\
													Silver	0.11 U	\	\	\	\	\	\
													Sulfide*	35.8 J	\	\	\	\	\	\
													TPH*	7.9	\	\	\	\	\	\
													Asbestos	ND	\	\	\	\	\	\
													SVOAs	U	\	\	\	\	\	\
													Pesticides	U	\	\	\	\	\	\
													Herbicides	U	\	\	\	\	\	\
													PCBs	U	\	\	\	\	\	\
													*The analytes represent those contaminants detected above PQLs and were subsequently considered as COPCs.							

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-146	Dumping Area	100-IU-6	10.1 m x 4.3 m x 3.0 m (33 ft x 14 ft x 10 ft)	Not Documented	This site was a dumping area and consisted of a steel structure, stainless steel piping, metal parts, metal fragments, and the lid from a military type ammunition can (no label). On February 5, 2001, this site was surveyed and a metal stand was found to be contaminated. The material was removed and no other contamination was found at the site. Patrol officers walked the entire area looking for abandoned explosive devices and none were found. Based on evidence at the scene, the Patrol concluded in their Incident Report that apparently the area was used for blast testing on equipment and materials.	Interim Closed Out	WSRF-2010-048	Apr-10	May-10	20-Jan-10	46	N/A	Aluminum	6440	\	\	\	\	\	\
													Antimony*	1.09	\	\	\	\	\	\
													Arsenic*	2.02	\	\	\	\	\	\
													Barium*	79.5	\	\	\	\	\	\
													Beryllium*	0.213	\	\	\	\	\	\
													Boron*	2.66	\	\	\	\	\	\
													Cadmium*	0.254	\	\	\	\	\	\
													Calcium	3550	\	\	\	\	\	\
													Chromium*	8.22	\	\	\	\	\	\
													Cobalt*	7.46	\	\	\	\	\	\
													Copper*	475	\	\	\	\	\	\
													Iron	23900	\	\	\	\	\	\
													Lead*	19.2	\	\	\	\	\	\
													Magnesium	3810	\	\	\	\	\	\
													Manganese*	362	\	\	\	\	\	\
													Mercury*	0.03 U	\	\	\	\	\	\
													Molybdenum*	0.402 B	\	\	\	\	\	\
													Nickel*	39.4	\	\	\	\	\	\
													Potassium	1390	\	\	\	\	\	\
													Selenium*	0.732	\	\	\	\	\	\
													Silicon	354	\	\	\	\	\	\
													Silver*	0.305	\	\	\	\	\	\
													Sodium	189	\	\	\	\	\	\
													Vanadium*	72.6	\	\	\	\	\	\
													Zinc*	154	\	\	\	\	\	\
													Total PCB*	0.04055	\	\	\	\	\	\
													Aroclor-1254	0.0321	\	\	\	\	\	\
													Aroclor-1260	0.00845 J	\	\	\	\	\	\
													2,4-Dinitrotoluene*	0.121 J	\	\	\	\	\	\
													Methylenechloride*	0.00258 J	\	\	\	\	\	\
													Styrene*	0.0017 J	\	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes VOAs, SVOAs and PCBs that were detected.							
600-149:1 (subsite)	Military Compound	100-IU-6	555 m x 381 m (1250 ft x 1820 ft)	1940s -1950s	This subsite consists of a Range complex, which included a Range House Building, Well Pump House, and four firing ranges. Lead bullets and spent cartridges are found throughout the area. Grenade canisters have also been found in the area. Complete information on all types of ordnance used is not readily available.	Interim Closed Out	WSRF 2011-028	13-Oct-10	22-Mar-11	N/A	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-149:2 (subsite)	Military Compound	100-IU-6	Not Documented	1940s -1950s	This subsite consists of the berm located behind the pistol/rifle range area. Complete information on all types of ordnance used is not readily available.	Interim Closed Out	WSRF 2008-049	1-Jun-08	7-Oct-08	01-Oct-08 07-Oct-08	1,372	1	Antimony*	0.38	\	\	\	0.39 U	0.54	\
													Arsenic*	7.7	\	5.2	\	4.1	3.7	\
													Barium*	110 C	\	90.3	\	83.8	81.4	\
													Beryllium*	0.29	\	\	\	0.4	0.06 U	\
													Boron*	1.2	\	0.96	\	1.9	1.8	\
													Cadmium*	0.22	\	0.14	\	0.2	0.28	\
													Chromium*	20.4	\	14.7	\	10.4	11	\
													Cobalt*	9.4	\	8.4	\	8.1	10.9	\
													Copper*	23	\	17.1	\	13	31.7	\
													Lead*	44.4	\	18.2	\	14.9	153	\
													Manganese*	464 C	\	395	\	367	344	\
													Molybdenum*	0.72	\	0.51	\	0.51	0.61	\
													Nickel*	19.2	\	13.9	\	10.8	18.9	\
													Selenium*	0.87	\	0.73	\	1.1	0.77 U	\
													Silicon	351 C	\	\	\	354 R	468 R	\
													Silver	0.06 U	\	\	\	0.13 U	0.13 U	\
													Tin*	1.6 C	\	0.84	\	0.96	0.77	\
													Vanadium*	59.4	\	54.2	\	72.8	53.7	\
													Zinc*	61.9	\	51.4	\	49.3	50.1	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs.							
600-153	Dumping Area	100-IU-6	Not Documented	Pre-Hanford	The site is pre-Hanford Site debris, such as a metal strong box, car springs, broken dishes, barbed wire, and wood.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-157	Foundation	100-IU-2	Not Documented	Not Documented	The site is described as several concrete foundation pads. The buildings were probably intentionally destroyed by fire, because the ground surface is littered with charred wood, burned electrical equipment (lights, switches, conduit), and nails. Field investigation identifies approximately 15 to 20 concrete pads. During the May 1999 visit, at least 40 concrete pads were counted.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-158	Storage Tank	100-IU-2	4.9 m x 6.1 m x 3.0 m (16 ft x 20 ft x 10 ft)	Not Documented	There is an area of reduced vegetation that is a vague circular shape that could be where a storage tank once sat. No evidence of a pumping station was found. A ground storage tank of 378,541 L (100,000 gal.) was located adjacent to the booster pump station measuring 4.9 m x 6 m x 3 m (16 ft x 20 ft x 10 ft). These facilities were used to handle potable water.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-159	Pump Station	100-IU-2	Not Documented	Not Documented	The well had been a concrete structure covered with a steel plate and surrounded by a light-duty steel post and orange barricade material. The well has been backfilled with grout and marked with a metal disk that reads "Well No. A8991, 699‑80‑39B, Abandoned 9-26-95." This site was identified and named by current and former employees and is not shown on existing maps of the area.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-160	Dumping Area	100-IU-2	Not Documented	Not Documented	The site is an area containing concrete irrigation pipe sections. The piping sections are large in diameter and not very long. The site consists of a pipe standing within a large-diameter pipe. Other debris is scattered across the nearby area.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-161	Dumping Area	100-IU-2	Not Documented	Not Documented	The site consists of two piles of plumbing debris. One pile contains ceramic plumbing fixtures and the other pile contains cast iron plumbing fixtures.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-162	Dumping Area	100-IU-2	Not Documented	Not Documented	The site consisted of two debris remnants: two 0.2 m (8 in.) steel pipe sections embedded in concrete, and a bucket of what appeared to be lead, which was removed in 1995.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-163	Laboratory	100-IU-2	Not Documented	Not Documented	The facility was reportedly used as the quality control test and training facility for welders who worked in the White Bluffs Main Pipe Fabrication Shop. The vague outline of a building footprint was identified at this location.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-164	Trench	100-IU-2	Not Documented	Not Documented	The site is a pile of dirt and an open hole. The earthen berm appeared to have been some of the material removed from the trench excavation. No records related to either the berm or the trench could be located.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-165	Valve Pit	100-IU-2	1 m x 1 m (3.3 ft x 3.3 ft)	Not Documented	The site is a subsidence and is lined with concrete, suggesting a valve box or drain system. The subsidence indicates a subsurface structure with a void space that allows overburden to subside into it because of storm runoff. A section of power pole extends across the top of the structure. Sites 600-126, 600-165, 600-166, and 600-170 all appear to be part of a related underground piping system, such as a sewer system, stormwater collection system, or irrigation system.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-166	Depression/Pit (nonspecific)	100-IU-2	1 - 4 m (13 ft) diameter 2 - 1.83 m (6 ft) diameter x 0.9 m (3 ft) deep	Not Documented	The site is a series of subsidences. Evidence suggested that the site may be a subsurface structure with a void space that allowed overburden materials to be washed into it by rain runoff. Sites 600-126, 600-165, 600-166, and 600-170 all appear to be part of a related underground piping system, such as a sewer system, stormwater collection system, or an irrigation system.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-167	Catch Tank	100-IU-2	3.0 m (9.84 ft) diameter 7.1 m^2 (76 ft^2)	Not Documented	The site is a large pre-Manhattan Engineering District concrete cistern. The top of the concrete cistern structure is located slightly below grade level. The hole is almost filled with windblown tumbleweeds. A small portion of the concrete structure was visible on a 1999 site visit. The cistern was used to store water (not wastewater).	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-168	Depression/Pit (nonspecific)	100-IU-6	Not Documented	Not Documented	The site contains a number of toilet pits (outhouse pits) that remain open. Several hazards were found near this site, including the house foundation, a wood-lined pit on the north side of the foundation, and the former well or pump house near the south side of the site.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-169	Trench	100-IU-6	50 m x 10 m x 2 m (164 ft x 33 ft x 6.6 ft)	Not Documented	The site is three trenches located south of the Hanford Construction Camp. Each trench runs northwest to southeast and parallels the road. Spoil piles are pushed to the west side of the trenches; their purpose is unclear. A 1997 site visit observed a pile of broken concrete between the southernmost trench and the adjacent trench.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-170	Sump	100-IU-2	1.83 m x 1.83 m x 0.91 m (6 ft x 6 ft x 3 ft)	Not Documented	The site is a series of subsurface concrete structures. The site was originally described as a single subsurface concrete structure, possibly a sump. A walkdown visit in May 1999 found four additional similar concrete structure subsidences surrounding an old building footprint. Sites 600-126, 600-165, 600-166, and 600-170 all appear to be part of a related underground piping system.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-171:1 (subsite)	Injection/ Reverse Well	100-IU-2	Not Documented	Not Documented	The subsite is within the White Bluffs Townsite. Most of the buildings have been demolished except for the White Bluffs Bank. Subsite 600-171:1 includes the White Bluffs Townsite Wells.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-171:2 (subsite)	Storage	100-IU-2	Not Documented	Not Documented	The subsite is within the White Bluffs Townsite. This site is the same as 600-136 and should not have been included as a subsite.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-171:3 (subsite)	Storage	100-IU-2	Not Documented	Not Documented	The subsite is within the White Bluffs Townsite. Subsite 600-171:3 includes the White Bluffs Townsite Insulation Warehouse. There are six warehouses altogether.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-171:4 (subsite)	Storage Tank	100-IU-2	Not Documented	Not Documented	The subsite is within the White Bluffs Townsite. Subsite 600-171:4 includes the White Bluffs Townsite Elevated Water Storage Tank.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-171:5 (subsite)	Maintenance Shop	100-IU-2	Not Documented	Not Documented	The subsite is within the White Bluffs Townsite. Subsite 600-171:5 includes the White Bluffs Townsite Air and Welding Tool Maintenance Building.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-171:6 (subsite)	Office	100-IU-2	Not Documented	Not Documented	The subsite is within the White Bluffs townsite. Subsite 600-171:4 includes the White Bluffs Townsite Fire Station.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-171:7 (subsite)	Office	100-IU-2	Not Documented	Not Documented	The subsite is within the White Bluffs townsite. Subsite 600-171:4 includes the White Bluffs Townsite Service Division Engineer Office.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-171:8 (subsite)	Office	100-IU-2	Not Documented	Not Documented	The subsite is within the White Bluffs townsite. Subsite 600-171:4 includes the White Bluffs Townsite Government Checkers and Ration Office.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-171:9 (subsite)	Storage	100-IU-2	Not Documented	Not Documented	The subsite is within the White Bluffs Townsite. Subsite 600-171:4 includes the White Bluffs Townsite Two Stationary Storage Warehouses.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-171:10 (subsite)	Office	100-IU-2	Not Documented	Not Documented	The subsite is within the White Bluffs Townsite. Subsite 600-171:4 includes the White Bluffs Townsite Fire Inspection Office.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-172	French Drain	100-IU-2	61 cm (2 ft)	Not Documented	The site is either a French drain or dry well that is a concrete pipe with a steel lid, and appears to be about 1 m (1 yd) deep. The sides are perforated, indicating that its purpose may have been for storm runoff or steam condensate. There does not appear to be an inlet pipe inside the structure. No evidence exists that hazardous, dangerous, or radioactive waste was disposed at this site.	Rejected	WSRF 97-015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-173	Dumping Area	100-IU-2	60 m x 40 m (197 ft x 131 ft)	Not Documented	The site is a domestic type waste dump and pre-Manhattan Engineering District building foundations. One building appears to have been a garage or farm shop because of the way the concrete was formed.	Rejected	WSRF 97-016	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-174	French Drain	100-IU-2	61 cm (2 ft)	Not Documented	The site is a vitrified clay pipe French drain. The French drain may have been used to dispose of steam condensate.	Rejected	WSRF 97-017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-175	Drain/Tile Field	100-IU-2	40 m x 30 m (131 ft x 98 ft)	Not Documented	The site is three large depressions thought to be the original drain field for wastewater generated at the ice house. However, it is unknown if this site was used for the disposal of any other wastes or used for any other purpose.	Rejected	WSRF 97-018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-176	Dumping Area	100-IU-2	6.1 m x 6.1 m (20 ft x 20 ft)	Not Documented	The site was a dumping area where it appeared that excess paint materials were disposed by pouring them on the ground. The paint spills and chips were scattered over a large area. The site was remediated and verification samples collected and analyzed.	Interim Closed Out	WSRF 2011-029	7-Dec-09	10-Feb-10	N/A	19,253	1.5								

	Excavation	95% UCL	South Staging Pile	95% UCL	N/A	North Staging Pile	95% UCL
Aluminum	7320	\	7540	\	\	8470	\
Antimony*	0.581 UJ	\	0.602	\	\	0.561 U	\
Arsenic*	4	3.03	3.27	2.98	\	3.25	2.91
Barium*	64.3	52.4	97.3	68.9	\	78.3	71
Beryllium*	0.272	0.218	0.249	0.225	\	0.286	0.256
Boron*	1.43 B	1.06	3.64	2.2	\	2.91	2.09

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														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Cadmium*	0.206	0.134	0.405	0.208	\	0.254	0.18
													Calcium	9690 J	\	8770	\	\	5510	\
													Chromium*	20.2 J	15.8	120	36.3	\	22.8	14.7
													Hexavalent Chromium	0.21 U	\	0.21 U	\	\	0.21 U	\
													Cobalt*	6.26	5.1	6.6	5.55	\	6.53	6.02
													Copper*	15.7	12.8	20.5	14.7	\	18.2	14.2
													Iron	31400	\	17700	\	\	20000	\
													Lead*	5.39	3.8	498	119	\	65.4	26.9
													Magnesium	5500 J	\	4460	\	\	4220	\
													Manganese*	313	270	279	266	\	315	297
													Molybdenum*	0.381 B	0.319	0.385 B	0.304	\	0.428 B	0.39
													Nickel*	14.5	11.8	11.1	10.5	\	12	10.5
													Potassium	1160	\	1340	\	\	1730	\
													Selenium*	0.348	\	0.284 U	\	\	0.28 U	\
													Silicon	511 J	\	398	\	\	383	\
													Silver	0.194 U	\	0.189 U	\	\	0.187 U	\
													Sodium	283	\	701	\	\	222	\
													Vanadium*	94.8	60.5	48.2	45.8	\	56.5	49.7
													Zinc*	40.8	34.4	74.3	45.6	\	55.7	43.3
													TPH - Diesel Range	3.40 U	\	3.38 U	\	\	6.90 UD	\
													TPH - Motor Oil*	20.8 J	\	10.1 U	\	\	602 D	186
													alpha-Chlordane*	0.00135 UD	\	0.00501 JD	\	\	0.00136 UD	\
													delta-BHC*	0.00135 UD	\	0.00136 UD	\	\	0.00223 JD	\
													4,4'-DDD*	0.00135 UD	\	0.00487 JD	\	\	0.00136 UD	\
													4,4'-DDE*	0.00135 UD	\	0.00928 D	\	\	0.00136 UD	\
													4,4'-DDT*	0.00135 UD	\	0.00913 D	\	\	0.00655 D	\
													Endosulfan Sulfate*	0.00135 UD	\	0.00438 JD	\	\	0.0213 JD	\
													4-(2,4-Dichlorophenoxy) butanoic acid*	0.0337 UJ	\	0.0173 J	\	\	0.0155 J	\
													Acenaphthene*	0.0397	0.0109	0.0824	0.00268	\	0.0655	0.0157
													Acenaphthylene*	0.00255 J	\	0.0668	\	\	0.0784	\
													Anthracene*	0.00417	\	0.00509	\	\	0.00696	0.00295
													Benzo(a)anthracene*	0.0085	\	0.00504	\	\	0.0198	\
													Benzo(a)pyrene*	0.0128	\	0.0227	0.00822	\	0.0233	\
													Benzo(b)fluoranthene*	0.0405	\	0.021	0.00857	\	0.0248	0.00902
													Benzo(ghi)perylene*	0.0239	\	0.0801	0.0273	\	0.0271	0.0132
													Benzo(k)fluoranthene*	0.00585	\	0.0104	\	\	0.0115	\
													Chrysene*	0.00832	\	0.00835	\	\	0.00956	0.00352
													Dibenz(a,h)anthracene*	0.00206 J	\	0.00244 J	\	\	0.00281 J	\
													Fluoranthene*	0.0224	\	0.184	0.0715	\	0.0839	0.0353
													Fluorene*	0.00338 U	\	0.0172	\	\	0.0059	\
													Indeno(1,2,3-cd) pyrene*	0.00915	\	0.0421	\	\	0.0238	\
													Naphthalene*	0.00338 U	\	0.0509	\	\	0.0198	\
													Phenanthrene*	0.00301 J	\	0.0294	0.0108	\	0.0141	0.00607
													Pyrene*	0.0305	\	0.0275	0.00891	\	0.0278	0.0102
													Aroclor-1254*	0.0136 U	\	0.145	\	\	0.00795 J	\
													Aroclor-1260*	0.0136 U	\	0.0566	0.023	\	0.0214	\
													2-Hexanone*	0.0126 U	\	0.00563 J	\	\	0.013 U	\
													Methylene chloride**	0.010 UJ	\	0.00432 BJ	0.00338	\	0.00309 BJ	\
													Toluene*	0.00525 U	\	0.00271 J	\	\	0.0013 J	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the VOAs, PCBs, PAHs, herbicides, and pesticides that were detected.							
600-177	Dumping Area	100-IU-2	95 m x 45 m (312 ft x 148 ft)	N/A	The site consists of two areas in proximity. The pipe bender is a large heavy-walled pipe drilled with several holes of varied sizes, placed vertically in the ground with approximately 1.2 m (3.9 ft) of the pipe extending abovegrade. Adjacent to the pipe bender is a large area of debris that appears to have been a miscellaneous equipment dumping/storage area. Random dumping of small quantities of oils also occurred in the area. No evidence exists that hazardous, dangerous, or radioactive waste was disposed at this site.	Rejected	WSRF 97-019	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-178	Depression/Pit (nonspecific)	100-IU-6	4.3 m x 4.9 m x 1.2 m (14 ft x 16 ft x 4 ft)	N/A	The site consisted of a toilet pit opening within a concrete pad that was the remains of the 213-J and 213-K Plutonium Storage Vaults guard house. Apparently, the opening was to a sanitary sewage pit located beneath the pad. No evidence of a sewage distribution system (septic tank) was apparent.	Interim Closed Out	WSRF 2011-057	4-Nov-10	16-Nov-10	1-Mar-11	188	N/A		\	\	\	\	\	Stockpile	Overburden
													Aluminum	7500 J	\	\	\	\	7560 J	6220 J
													Antimony	0.530 UJ	\	\	\	\	0.543 UJ	0.422 UJ
													Arsenic*	3.12	\	\	\	\	2.82	2.78
													Barium*	76.1	\	\	\	\	67.6	62.6
													Beryllium*	0.264	\	\	\	\	0.258	0.23
													Boron*	1.11 B	\	\	\	\	1.26 B	0.905 B
													Cadmium*	0.131 B	\	\	\	\	0.108 B	0.121 B
													Calcium	4760	\	\	\	\	4150 J	4560 J
													Chromium*	8.58	\	\	\	\	8.24	6.7
													Cobalt*	9.25	\	\	\	\	6.13	6.56
													Copper*	10.5	\	\	\	\	9.75	9.87
													Iron	22300	\	\	\	\	20100	22500

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Lead*	5.77	\	\	\	\	4.07	3.82
													Magnesium	4070	\	\	\	\	3710	3840
													Manganese*	337	\	\	\	\	290	307
													Molybdenum*	0.363 B	\	\	\	\	0.335 B	0.359 B
													Nickel*	8.91	\	\	\	\	7.7	6.93
													Potassium	1480	\	\	\	\	1620	1280
													Selenium	0.265 U	\	\	\	\	0.272 U	0.211 U
													Silicon	464	\	\	\	\	471	323
													Silver	0.177 U	\	\	\	\	0.181 U	0.141 U
													Sodium	342	\	\	\	\	288	281
													Vanadium*	62.9	\	\	\	\	52.1	66
													Zinc*	43	\	\	\	\	38.9	43.6
													4,4'-DDE*	0.0134 D	\	\	\	\	0.00468 JD	0.00778 D
													4,4'-DDT*	0.00131 UD	\	\	\	\	0.00167 JD	0.00152 JD
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the pesticides that were detected.							
600-179	Burial Ground	100-IU-2	N/A	1943 - 1975	The site is the remains of the Priest Rapids Ice House. The facility supplied ice and cold storage facilities for the growing work force during construction. The facilities were demolished in 1975 and buried in situ. No evidence exists that hazardous, dangerous, or radioactive waste was disposed at this site.	Rejected	WSRF 97-020	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-180	Maintenance Shop	100-IU-2	N/A	N/A	The site is described as the remains of what appears to have been an automotive repair shop. The waste may have been solvents, grease, antifreeze, oils, and gasoline. Concern was expressed by EPA because of the types of materials usually found at an automotive repair shop. However, there is no evidence of this type of disposal.	Rejected	WSRF 97-021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-181	Dumping Area	100-IU-2	17 m x 15 m (56 ft x 49 ft)	Not Documented	The site was an oil dumping area. The area where large quantities of oil were dumped created a hard, asphalt-like layer on the ground surface. The oil material was excavated and removed in May 2003. Samples of the underlying soil were collected.	Interim Closed Out	WSRF 2003-048	Apr-03	May-03	15-May-03	112	0.3	Arsenic*	3	\	\	\	\	\	\
													Barium*	98.1	\	\	\	\	\	\
													Cadmium*	0.12	\	\	\	\	\	\
													Chromium*	14.6 C	\	\	\	\	\	\
													Lead*	4.5	\	\	\	\	\	\
													Mercury	0.01 U	\	\	\	\	\	\
													Selenium	0.46 U	\	\	\	\	\	\
													Silver	0.13 U	\	\	\	\	\	\
													TPH*	7.6	\	\	\	\	\	\
													Bis(2-ethylhexyl) phthalate*	0.047 JBDC	\	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in sampling and are subsequently considered as COPCs. The list includes only the SVOAs that were detected.							

Table E1. Waste Site Description and Status Table

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-182	Dumping Area	100-IU-2	1000 m^2 (10.700 ft^2)	Not Documented	The site is excess piping materials and an area of highly degraded piping insulation that appears to be made of asbestos or a similar material. Several 6.1 m (20 ft) sections of 30.5 cm (12 in.) spiral welded steel pipe were nearby as well as other small debris piles of broken vitrified clay piping, plumbing fixtures, and concrete piping.	Interim Closed Out	WSRF 2010-089	10-Feb-10	10-Feb-10	16-Aug-10 17-Aug-10	47.3	0.08	Aluminum	9510	\	\	\	\	11100	\
													Antimony*	0.27	\	\	\	\	0.266	\
													Arsenic*	2.99	\	\	\	\	3.18	\
													Barium*	84.1	\	\	\	\	84.9	\
													Beryllium*	0.322	\	\	\	\	0.334	\
													Boron*	1.75	\	\	\	\	2.55	\
													Cadmium*	0.154	\	\	\	\	0.15	\
													Calcium	3560	\	\	\	\	3660	\
													Chromium*	11.7	\	\	\	\	12.7	\
													Cobalt*	7.22	\	\	\	\	7.34	\
													Copper*	12.6	\	\	\	\	11.9	\
													Iron	23400	\	\	\	\	23900	\
													Lead*	4.62	\	\	\	\	3.95	\
													Magnesium	4050	\	\	\	\	4280	\
													Manganese*	382	\	\	\	\	357	\
													Molybdenum*	0.546	\	\	\	\	0.414	\
													Nickel*	10.8	\	\	\	\	10.7	\
													Potassium	1780	\	\	\	\	2230	\
													Selenium	0.284 U	\	\	\	\	0.219 U	\
													Silicon	1630	\	\	\	\	1430 J	\
													Silver	0.19 U	\	\	\	\	0.146 U	\
													Sodium	246	\	\	\	\	248	\
													Vanadium*	72.2	\	\	\	\	64.2	\
													Zinc*	45.7	\	\	\	\	45.7	\
													TPH-diesel	3340 U	\	\	\	\	3310 U	\
													TPH-motor oil*	12.5	\	\	\	\	5.34	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs.							
600-183	Dumping Area	100-IU-2	N/A	Not Documented	The site is a burn pile and debris dumping area. The waste consists of miscellaneous debris, including domestic type debris and military drums. No evidence exists that hazardous, dangerous, or radioactive waste was disposed at this site.	Rejected	WSRF 97-022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-184	Septic Tank	100-IU-2	0.6 m (2 ft) deep	Not Documented	The site is a concrete box with a metal lid. The site is the various components of a septic system serving the central area of the White Bluffs Townsite. No evidence exists that hazardous, dangerous, or radioactive waste was disposed at this site.	Rejected	WSRF 97-023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-185	Trench	100-IU-6	N/A	1943-1945	The site is described as a dumping and cleaning station for the portable toilets used at the various Hanford construction sites. The unit received portable toilet cleaning chemicals and human waste. No evidence exists that hazardous, dangerous, or radioactive waste was disposed at this site.	Rejected	WSRF 97-034	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-186	Trench	100-IU-6	70 m x 24.4 m x 1.2 m (230 ft x 80 ft x 4 ft)	1944-1945	This waste site includes all the septic tanks as well as the sewage treatment plants at the Hanford Construction Camp. These facilities consisted of 80 septic tanks and 3 waste treatment plants, in addition to an unspecified number of septic tanks and drain fields that predate the construction camp but were used for camp purposes. Septic tanks were standard design, three-pass baffle, wooden box type. Some tanks were quite large and a significant potential for surface collapse may exist at these sites.	No Action	WSRF 2011-069	N/A	N/A	14-Feb-11 15-Feb-11 24-Mar-11 26-May-10 (Confirmatory Sampling)	N/A	N/A	Aluminum	12100	\	\	\	\	\	\
													Antimony*	0.65	\	\	\	\	\	\
													Arsenic*	5.64	\	\	\	\	\	\
													Barium*	139	\	\	\	\	\	\
													Beryllium*	0.471	\	\	\	\	\	\
													Boron*	3.29	\	\	\	\	\	\
													Cadmium*	0.871	\	\	\	\	\	\
													Calcium	6320	\	\	\	\	\	\
													Chromium*	98	\	\	\	\	\	\
													Hexavalent Chromium*	0.28 B	\	\	\	\	\	\
													Cobalt*	8.99	\	\	\	\	\	\
													Copper*	42.3	\	\	\	\	\	\
													Iron	101000	\	\	\	\	\	\
													Lead*	93.5	\	\	\	\	\	\
													Magnesium	5710	\	\	\	\	\	\
													Manganese*	307	\	\	\	\	\	\
													Mercury*	0.854	\	\	\	\	\	\
													Molybdenum*	1.23 B	\	\	\	\	\	\
													Nickel*	17.4	\	\	\	\	\	\
													Potassium	2250	\	\	\	\	\	\
													Selenium*	0.393	\	\	\	\	\	\
													Silicon	743	\	\	\	\	\	\
													Silver*	21.9	\	\	\	\	\	\
													Sodium	408	\	\	\	\	\	\
													Vanadium*	141	\	\	\	\	\	\
													Zinc*	137	\	\	\	\	\	\
													TPH - Diesel Range	3.58 U	\	\	\	\	\	\
													TPH - Motor Oil*	18.5	\	\	\	\	\	\
													Aroclor-1260*	0.0499	\	\	\	\	\	\
													Aroclor-1268*	0.0506	\	\	\	\	\	\
													Benzo(a)anthracene*	0.00167 J	\	\	\	\	\	\
													Benzo(a)pyrene*	0.00532	\	\	\	\	\	\
													Benzo(b)fluoranthene*	0.00968	\	\	\	\	\	\

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Benzo(ghi)perylene*	0.0065	\	\	\	\	\	\
													Benzo(k)fluoranthene*	0.0027 J	\	\	\	\	\	\
													Chrysene*	0.00155 J	\	\	\	\	\	\
													Dibenz(a,h)anthracene*	0.000983 J	\	\	\	\	\	\
													Fluoranthene*	0.00263 J	\	\	\	\	\	\
													Indeno(1,2,3-cd) pyrene*	0.00578	\	\	\	\	\	\
													Phenanthrene*	0.00105 J	\	\	\	\	\	\
													Pyrene*	0.00811	\	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the PCBs and PAHs that were detected.							
600-188	Trench	100-IU-2	90 m x 40 m (300 ft x 130 ft)	N/A	The site consisted of an open trench with industrial wastes filling about one-third of the site. There was evidence of chemical or oil dumping and burning along the east side of the trench.	Interim Closed Out	WSRF 2010-090	10-Feb-10	11-Feb-10	8-Sep-10	1467	1		Excavation	\	Excavation	\	\	Stockpile	Overburden
													Aluminum	9040	\	\	\	\	8910	9450
													Antimony*	0.239 B	\	\	\	\	0.296 B	0.299 JB
													Arsenic*	2.81	\	2.45	\	\	2.58	2.75
													Barium*	135	\	56.8	\	\	83.9	89.2
													Beryllium*	0.337	\	0.24	\	\	0.347	0.375
													Boron*	1.94	\	1.11	\	\	2.28	2.23
													Cadmium*	0.19	\	0.136	\	\	0.203	0.226
													Calcium	6990	\	\	\	\	3660	3320
													Chromium*	13.8	\	11.6	\	\	11.5	13.8
													Cobalt*	7.03	\	4.73	\	\	6.74	6.75
													Copper*	12.4	\	10.8	\	\	12.9	13.5
													Iron	22600	\	\	\	\	22700	23200
													Lead*	7.73	\	4.81	\	\	5.84	8.45
													Magnesium	4330	\	\	\	\	4340	4400
													Manganese*	544	\	282	\	\	385	383
													Mercury	0.0286 U	\	\	\	\	0.0281 U	0.0287 U
													Molybdenum*	0.482 B	\	0.35	\	\	0.562 B	0.553 B
													Nickel*	21.7	\	12.4	\	\	11	11.8
													Potassium	1990	\	\	\	\	2180	2150
													Selenium*	0.219	\	\	\	\	0.284	0.218
													Silicon	820	\	\	\	\	787	1050
													Silver	0.159 U	\	\	\	\	0.174 U	0.179 U
													Sodium	216	\	\	\	\	188	182
													Vanadium*	56.2	\	40.2	\	\	49.6	51.4
													Zinc*	43.9	\	31.3	\	\	43.9	48.7
													TPH - Diesel Range	6.70 U	\	\	\	\	3.42 U	3.35 U
													TPH - Motor Oil*	116 D	\	\	\	\	36.9	39.4
													Acenaphthene*	0.0034 U	\	\	\	\	0.0576	0.00124 J
													Acenaphthylene	0.0034 U	\	\	\	\	0.0314	0.00465
													Anthracene*	0.0034 U	\	\	\	\	0.00341 U	0.000827 J
													Benzo(a)anthracene*	0.0034 U	\	\	\	\	0.0295	0.0261
													Benzo(a)pyrene*	0.0034 U	\	\	\	\	0.0553	0.0638
													Benzo(b)fluoranthene*	0.0034 U	\	\	\	\	0.0992	0.0791
													Benzo(ghi)perylene*	0.0034 U	\	\	\	\	0.103	0.0943
													Benzo(k)fluoranthene*	0.0034 U	\	\	\	\	0.0442	0.0399
													Chrysene*	0.00309 J	\	\	\	\	0.0424	0.0402
													Dibenz(a,h)anthracene*	0.0034 U	\	\	\	\	0.00741	0.00794
													Fluoranthene*	0.0034 U	\	\	\	\	0.0996	0.0719
													Fluorene*	0.0034 U	\	\	\	\	0.00308 J	0.00194 J
													Indeno(1,2,3-cd) pyrene*	0.0034 U	\	\	\	\	0.0797	0.0701
													Phenanthrene*	0.000901 J	\	\	\	\	0.0608	0.00896
													Pyrene*	0.0034 U	\	\	\	\	0.0634	0.0452
													Acetone*	0.0113 BJ	\	\	\	\	0.0126 U	0.00833 J
													Methylene Chloride*	0.00879 B	\	\	\	\	0.00631 U	0.00849 B
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the VOAs and PAHs that were detected.							
600-189	French Drain	100-IU-2	N/A	N/A	The site is three French drains associated with a large warehouse and temporary construction facility. The area near the French drains is littered with debris and patches of gravel. There is no oil-stained soil or other indication of hazardous waste disposal at or near the French drains. No documentation has been found describing the purpose of the drains. French drains were used for disposal of liquid wastes and these may have been used for wastewater and/or stormwater.	Rejected	WSRF 97-043	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-190	Dumping Area	100-IU-2	N/A	N/A	The site was an area where tar and/or paints appear to have been dumped. A review of a 1948 aerial photograph indicates this site was not the location of a facility, but a surface-scarred, vegetation-free area associated with the demolished American Pipe Company buildings. A 1944 duPont warehouse was nearby. No known Hanford Site-related activities were located in this area after the warehouses were removed.	Interim Closed Out	WSRF 2003-47	Apr-03	May-03	20-May-03	Not Specified	0.25	Arsenic*	2.5	\	\	\	\	\	\
													Barium*	81.5 C	\	\	\	\	\	\
													Cadmium*	0.12	\	\	\	\	\	\
													Chromium*	13.8 C	\	\	\	\	\	\
													Lead*	10.8 C	\	\	\	\	\	\
													Cyanide*	0.43 U	\	\	\	\	\	\
													Mercury	0.02 U	\	\	\	\	\	\
													Selenium	0.41 U	\	\	\	\	\	\

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Silver	0.12 U	\	\	\	\	\	\
													Sulfide*	24.6 U	\	\	\	\	\	\
													TPH*	24.8	\	\	\	\	\	\
													Asbestos	Trace	\	\	\	\	\	\
													Herbicides	U	\	\	\	\	\	\
													Pesticides	U	\	\	\	\	\	\
													Aroclor-1254*	1.1	\	\	\	\	\	\
													Aroclor-1260*	0.13	\	\	\	\	\	\
													Acenaphthylene*	0.038 J	\	\	\	\	\	\
													Anthracene*	0.047 J	\	\	\	\	\	\
													Benzo(a)pyrene*	0.062 J	\	\	\	\	\	\
													Benzo(b)fluoranthene*	0.052 J	\	\	\	\	\	\
													Benzo(g,h,i)perylene*	0.13 J	\	\	\	\	\	\
													Benzo(k)fluoranthene*	0.044 J	\	\	\	\	\	\
													Bis(2-ethylhexyl)phthalate*	2.4	\	\	\	\	\	\
													Chrysene*	0.053 J	\	\	\	\	\	\
													Di-n-butylphthalate*	16 D	\	\	\	\	\	\
													Indeno(1,2,3-cd)pyrene*	0.057 J	\	\	\	\	\	\
													Naphthalene*	0.1 J	\	\	\	\	\	\
													Pyrene*	0.047 J	\	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the PCBs and SVOAs that were detected.							
600-191	Dumping Area	100-IU-2	305 m x 80 m (1000 ft x 260 ft)	Not Documented	The site was an area littered with miscellaneous trash and debris. It also appears that some burning did occur at this location but to a small degree. Because of the large number of oil cans found at the site, it was believed that the site was used by both Manhattan Engineering District and White Bluffs residents for the disposal of domestic waste materials. The basis for reclassification is supported, based on reviews of site history, a site walkdown, and removal of suspected hazardous debris. These results show that remaining material (debris and soil) are protective of human health, groundwater, and the Columbia River.	Interim Closed Out	WSRF 2004-136	4-Jul-10	7-Oct-10	N/A	N/A	0	None	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-192	Maintenance Shop	100-IU-6	N/A	Not Documented	The site is the remains of a fumigation building. The same physical properties that make fumigants highly penetrating also negate the chance that any of the pesticides remain at the site. The fumigants would have readily escaped into the atmosphere because of their small size and volatility.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-193	Storage Tank	100-IU-2	7 m x 5 m (23 ft x 16 ft)	1942-1975	The site is the location of the White Bluffs Gas Station that was demolished in 1975 as part of a sitewide cleanup project. No documentation can be found to determine if any underground storage tanks were removed. A field reconnaissance was conducted on October 6, 1997. It was concluded that available evidence was insufficient to establish that an underground tank was present at the site.	Rejected	WSRF 97-025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-194	Fabrication Shop	100-IU-2	76 m x 49 m (250 ft x 160 ft)	N/A	The site is the remnants of a pipe fabrication shop. Waste materials observed at the site include wood, coal, metal, metal lathe turnings, pipe, nails, brick, and concrete. The Main Pipe Fabrication Shop was used to prepare piping systems for the reactor areas. The pipe was prepared for welding by grinding, etching with acid (pickling), and then cleaning with solvent materials. This shop was the source of waste discharged to the White Bluffs Pickling Acid Cribs (600-106). No evidence exists that hazardous, dangerous, or radioactive waste was disposed at this site.	Rejected	WSRF 97-026	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-195	Electrical Substation	100-IU-2	7 m x 7 m (23 ft x 23 ft)	N/A	The site is the location of a demolished substation that serviced the White Bluffs Townsite. Process knowledge of similar facilities indicates that the transformers located at the site may have contained PCBs. It is possible that dielectric oil may have leaked, been spilled, or have been intentionally released to the soil beneath the transformers. However, there is no direct evidence of a release to the soil at the site.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-196	Dumping Area	100-IU-2	170 m x 80 m (560 ft x 260 ft)	Not Documented	The site is areas of randomly scattered debris and a pit. The debris includes cans, bottles, barbed wire, and car parts scattered along the west side of a dirt road. The pit is a fairly large excavation on the east side of the road and shows no evidence of being used as a waste site. The purpose of the pit is unknown.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-198	Foundation	100-IU-2	5.03 m x 5.03 m (16.5 ft x 16.5 ft)	Not Documented	The site is a box-shaped concrete structure partially buried in the river bank. The site appears to have slid down the bank. The structure is filled with dirt and debris. A large quantity of 0.635 cm (0.25 in.) nylon tubing is hanging around and in the structure. Four steel pipes extend from each corner of the box and an electrical conduit also extends from the box.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-199	Dumping Area	100-IU-2	25 m x 15 m (82 ft x 49 ft)	Not Documented	The site is a concrete foundation pad that is completely covered with coal ash. The original purpose of the pad is unknown. Analytical sampling has been performed at an analogous site. The samples from the 126-D-1 Ash Pit found no evidence to indicate hazardous, dangerous, or radioactive waste exists.	Rejected	WSRF 97-044	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-200	Septic Tank	100-IU-2	N/A	Not Documented	The site is a large septic tank thought to have been associated with the Priest Rapids Ice House. It is possible that this tank was used for the disposal of wastewater from the Priest Rapids Ice House and then drained to the shallow depression south of the Pickling Acid Cribs.	Rejected	WSRF 97-027	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-201	Dumping Area	100-IU-2	25 m x 15 m (82 ft x 49 ft)	Not Documented	In May 2003, a test pit was dug at an area of anomaly. The test pit revealed a flattened steel bucket and some decaying wood. Field screening was done on all debris removed from the pit to determine if a sample needed to be collected. No hazardous material was found. No samples were collected from the pit. The debris was put back into the excavation. A single sample of hardened paint was collected. The site has been evaluated to confirm that it does not require remediation.	No Action	WSRF 2003-38	N/A	N/A	19-May-03	N/A	Paint Chips	Arsenic	6.9	\	\	\	\	\	\
													Barium	2320 C	\	\	\	\	\	\
													Cadmium	20.9	\	\	\	\	\	\
													Chromium	20300	\	\	\	\	\	\
													Lead	2780 C	\	\	\	\	\	\
													Mercury	0.03	\	\	\	\	\	\
													Selenium	2	\	\	\	\	\	\
													Silver	0.48 U	\	\	\	\	\	\
													Di-n-butylphthalate	0.19 J	\	\	\	\	\	\
													Pentachlorophenol	0.94 J	\	\	\	\	\	\
													Aroclor-1260	8.1 D	\	\	\	\	\	\
													The list only includes PCBs and SVOAs that were detected.							
600-202	Burn Pit	100-IU-6	300 m x 150 m x 12 m (980 ft x 490 ft x 39 ft)	Not Documented	The site included four burn and burial pits located proximally and arranged to form a single rectangle that lay in the northwest to southeast direction. The waste was miscellaneous trash and debris and included such items as fire-cracked rock, glass, china, jars, bottles, metal, kitchen materials, a broken toilet bowl, and other materials. It was likely that paints and solvents were burned in the pits. Bulldozer marks suggested that debris was covered, and there were extensive signs of burning over the site.	Interim Closed Out	WSRF 2011-030	9-Mar-10	26-Apr-10	29-Nov-10 01-Dec-10 06-Dec-10 03-Feb-11	20,471	4.8		Large Excavation	Small Excavation	Large Excavation	Small Excavation	Focused Sample	Stockpile	Stockpile
													Aluminum	9320	13300	\	\	10100	6830	\
													Antimony*	0.489 JB	0.685 U	0.398	\	0.735	1.74	\
													Arsenic*	6.95	11.4	5.12	7.87	10.2	8.75	4.94
													Barium*	97.2	120	86.2	104	201	138	108
													Beryllium*	0.349	0.528	0.319	0.463	0.376	0.271	0.242
													Boron*	2.67	6.9	1.87	3.03	13	12.3	5.72
													Cadmium*	0.104	0.197	0.0852	0.159	1.29	0.514	0.276
													Calcium	13400 J	16400	\	\	26200	20100	\
													Chromium*	21.2	28.3	17.8	22.4	21.9	28.8	15
													Hexavalent Chromium*	0.22 U	\	\	\	0.23 U	0.26 B	\
													Cobalt*	6.21	9.03	5.47	7.21	6.62	7.84	7.03
													Copper*	16.3	20.8	13.7	17.8	87.9	61.9	28.9
													Iron	21100	25500	\	\	21400	47400	\
													Lead*	6.27	8.11	5.44	6.82	278	84	38.3
													Magnesium	6900	8360	\	\	6010	4880	\
													Manganese*	372	449	310	394	358	407	350
													Molybdenum*	0.286	0.362 B	0.396	0.448	1.17 B	2.61	0.919
													Nickel*	20.7	25	16.1	19	20.5	24.9	12.7
													Potassium	1890	2600	\	\	2580	1690	\
													Selenium*	0.307 U	0.337	\	\	0.296 U	0.318 U	\
													Silicon	705	926	\	\	808	655	\
													Silver*	0.204 U	0.228 U	\	\	1.54	0.275	\
													Sodium	1210	2470	\	\	996	755	\
													Vanadium*	58.1	57.7	46.6	48.1	50.3	64.8	55.6
													Zinc*	45.4	57.4	40.7	49	403	255	122
													TPH - Diesel Range*	3.6 U	3.76 U	\	\	3.84 U	11.5	\
													TPH - Motor Oil*	10.8 UJ	11.3 U	\	\	104	224	119
													Acenaphthene*	0.011	0.0248	0.00606	\	0.0139	0.0539	\
													Acenaphthylene*	0.00361 U	0.0821	\	\	0.132	0.113	0.0382
													Anthracene*	0.00361 U	0.00203 J	\	\	0.0114	0.00626	0.00364
													Benzo(a)anthracene*	0.00361 U	0.00378 U	\	\	0.0173	0.0413	0.0201
													Benzo(a)pyrene*	0.00361 U	0.00378 U	\	\	0.00122 J	0.0363	\
													Benzo(b)fluoranthene*	0.0012 J	0.00378 U	\	\	0.0156	0.0887	0.034
													Benzo(ghi)perylene*	0.00361 U	0.00378 U	\	\	0.00133 J	0.0526	\
													Benzo(k)fluoranthene*	0.00361 U	0.00378 U	\	\	0.00369 U	0.0165	\
													Chrysene*	0.00239 J	0.00378 U	\	\	0.00245 J	0.12	0.0481
													Dibenz(a,h)anthracene*	0.00361 U	0.00378 U	\	\	0.00369 U	0.0168	\
													Fluoranthene*	0.00708	0.00514	\	\	0.061	0.196	0.198
													Fluorene*	0.00361 U	0.0345	\	\	0.0147	0.0107	0.00597
													Indeno(1,2,3-cd)pyrene*	0.00428	0.00378 U	\	\	0.0825	0.00355 U	\
													Naphthalene*	0.00123 J	0.0207	\	\	0.0265	0.0131	\
													Phenanthrene*	0.00407	0.00524	\	\	0.0535	0.052	0.0542
													Pyrene*	0.00361 U	0.00514	\	\	0.00683	0.371	1.88
													Aldrin*	0.00286 JD	0.00153 UD	\	\	0.00148 UD	0.006 JD	\
													alpha-BHC*	0.00145 UD	0.00153 UD	\	\	0.00202 JD	0.00144 UD	\
													beta-BHC*	0.00332 JD	0.00153 UD	\	\	0.0145 D	0.00144 UD	\
													delta-BHC*	0.00261 JD	0.00153 UD	\	\	0.00148 UD	0.00144 UD	\
													4,4'-DDD*	0.00145 UD	0.00153 UD	\	\	0.00148 UD	0.00265 JD	\
													4,4'-DDE*	0.00145 UD	0.00153 UD	\	\	0.00148 UD	0.00204 JD	\
													4,4'-DDT*	0.00145 UD	0.00153 UD	\	\	0.00148 UD	0.00401 JD	\
													Endosulfan-I*	0.00145 UD	0.00153 UD	\	\	0.00299 JD	0.00144 UD	\
													Endrin*	0.00145 UD	0.00153 UD	\	\	0.00148 UD	0.00224 JD	\
													Endrin Ketone*	0.00145 UD	0.00153 UD	\	\	0.00148 UD	0.00197 JD	\
													Methoxychlor*	0.00145 UD	0.00153 UD	\	\	0.00148 UD	0.00161 JD	\

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the PAHs and pesticides that were detected.							
600-203	French Drain	100-IU-2	N/A	Not Documented	The site is two French drains and what appears to be a valve box. No additional information is known. A RARA Walkdown visit done in May 1999 found an additional small subsidence near the valve box and noticed a long narrow area of disturbed vegetation that may indicate these structures were part of an old irrigation system. A third French drain was also observed and mapped as a new component of this site. It is believed the site received steam condensate. Steam condensate is nondangerous and nonradioactive.	Rejected	WSRF 97-028	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-204	Burn Pit	100-IU-6	150 m x 20 m x 4 m (492 ft x 66 ft x 13 ft)	Not Documented	The site consisted of a long, narrow trench that was used as a burn pit. The area was used for dumping and burning trash. The trash was miscellaneous debris, including metal and glass fragments, nails, fire-scarred rock, cans, and bottles.	Interim Closed Out	WSRF 2003-043	Apr-03	May-03	16-May-03 19-May-03	N/A	0.25	Arsenic*	2.7	\	\	\	\	\	\
													Barium*	166	\	\	\	\	\	\
													Cadmium*	0.08	\	\	\	\	\	\
													Chromium*	10.8	\	\	\	\	\	\
													Lead*	27.7	\	\	\	\	\	\
													Mercury	0.02 U	\	\	\	\	\	\
													Selenium	0.41 U	\	\	\	\	\	\
													Silver	0.12 U	\	\	\	\	\	\
													Sulfate	2.7	\	\	\	\	\	\
													TPH*	41.2	\	\	\	\	\	\
													Asbestos	U	\	\	\	\	\	\
													PCBs	U	\	\	\	\	\	\
													Herbicides	U	\	\	\	\	\	\
													Pesticides	U	\	\	\	\	\	\
													Bis(2-ethylhexyl)phthalate	0.15 JD	\	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list includes only the SVOAs that were detected.							
600-205	Dumping Area	100-IU-6	Not Documented	<1944	The site consisted of a large area that appeared to have been used for dumping domestic refuse during an early period, probably pre-1944. The area was relatively flat and appeared to have been mechanically leveled with scattered small debris and building detritus.	Interim Closed Out	WSRF 2011-031	24-Feb-10	3-Feb-11	27-Sep-10 7-Dec-10 3-Feb-11	1,005	4	Aluminum	9110 J	\	\	\	\	7590 J	\
													Antimony*	0.586 UJ	\	\	\	\	0.513 UJ	\
													Arsenic*	5.42	\	\	\	\	3.18	\
													Barium*	70.4	\	\	\	\	75	\
													Beryllium*	0.384	\	\	\	\	0.275	\
													Boron*	1.38 B	\	\	\	\	1.26 B	\
													Cadmium*	0.113 B	\	\	\	\	0.25	\
													Calcium	5990 J	\	\	\	\	3670 J	\
													Chromium*	9.42	\	\	\	\	9.02	\
													Cobalt*	9.09	\	\	\	\	6.81	\
													Copper*	18	\	\	\	\	13.2	\
													Iron	24600	\	\	\	\	20400	\
													Lead*	6.9	\	\	\	\	12	\
													Magnesium	5250 J	\	\	\	\	4040 J	\
													Manganese*	371	\	\	\	\	318	\
													Molybdenum*	0.36 B	\	\	\	\	0.287 B	\
													Nickel*	10.7	\	\	\	\	9.23	\
													Potassium	1650	\	\	\	\	1670	\
													Selenium	0.293 U	\	\	\	\	0.257 U	\
													Silicon	168 J	\	\	\	\	182 J	\
													Silver	0.195 U	\	\	\	\	0.171 U	\
													Sodium	540	\	\	\	\	200	\
													Vanadium*	59.5 J	\	\	\	\	53 J	\
													Zinc*	49	\	\	\	\	45.7	\
													Acenaphthene*	0.0591	\	\	\	\	0.0034	\
													Anthracene*	0.00931	\	\	\	\	0.00342 U	\
													Benzo(a)pyrene*	0.00445	\	\	\	\	0.00145 J	\
													Benzo(b)fluoranthene*	0.0137	\	\	\	\	0.00361	\
													Benzo(ghi)perylene*	0.00143 J	\	\	\	\	0.00284 J	\
													Chrysene*	0.00203 J	\	\	\	\	0.00608	\
													Fluoranthene*	0.0127	\	\	\	\	0.146	\
													Fluorene*	0.00517	\	\	\	\	0.00342 U	\
													Indeno(1,2,3-cd)pyrene*	0.00344 U	\	\	\	\	0.00457	\
													Phenanthrene*	0.00344 U	\	\	\	\	0.00136 J	\
													Pyrene*	0.00109 J	\	\	\	\	0.00494	\
													delta-BHC*	0.00438 JD	\	\	\	\	0.0014 UD	\
													4,4'-DDD*	0.00333 JD	\	\	\	\	0.0014 UD	\
													TPH - Diesel Range*	3.2 J	\	\	\	\	3.39 UJ	\
													TPH - Motor Oil*	7.86 J	\	\	\	\	103 J	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list includes only the PAHs and pesticides that were detected.							

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-206	Burial Ground	100-IU-6	Not Documented	1943-1945	The site is a burial ground used for the disposal of scrap graphite and building rubble associated with the 101 Building. The 101 Building was plowed into the ground when it was demolished. Records appear to indicate that the site received debris from the demolished building. Remnants of the site remain on the surface. No evidence exists that hazardous, dangerous, or radioactive waste was disposed at this site.	Rejected	WSRF 97-035	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-207	Dumping Area	100-IU-6	76.2 m x 18.29 m x 3.05 m (250 ft x 60 ft x 10 ft)	1943-1945	The site is a large coal ash pile, along with a second smaller ash pile to the northwest. The waste is ash that appears characteristic of powerhouse ash and probably came from coal-fired power houses used at the Hanford Construction Camp. EP Toxicity tests and analytical assays of ash piles have found no evidence to indicate hazardous, dangerous, or radioactive waste exists at coal ash sites where no other waste disposal occurred.	Rejected	WSRF 97-038	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-208	Pond	100-IU-6	18.29 m x 6.10 m x 1.52 m (60 ft x 20 ft x 5 ft)	1943-1948	The 600-208 site is also known as the Hanford Construction Camp Boiler House Ponds. Eighteen semipermanent boiler houses were erected, each with an associated pond. Boiler water discharge was generated to remove scale (i.e., calcium carbonate, magnesium carbonate) buildup in the steam generation water and discharged to the ground. Historical knowledge indicates that no hazardous chemicals were used in the process, and the boiler water discharge would not be hazardous or present a risk to human health or the environment.	No Action	WSRF 2004-096	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-209	Dumping Area	100-IU-2	Not Documented	Not Documented	The site is several stacks of excess railroad ties. The ground surface at the site appears to have been graveled, suggesting that the entire area was a warehouse area for industrial type materials. The waste is creosote-soaked railroad ties and possibly creosote in the soil underneath the railroad ties. No evidence exists that hazardous, dangerous, or radioactive waste was disposed at this site.	Rejected	WSRF 97-029	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-213	Storage Tank	100-IU-6	Not Documented	Not Documented	The site is underground fuel storage tanks that were associated with the Hanford Airport. Two field walkdowns have not found visual evidence of fuel storage tanks.	Rejected	WSRF 2010-001	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-234	Dumping Area	100-IU-2	45.7 m (150 ft) square	Not Documented	The site is pre-Hanford farmstead debris. The site contains miscellaneous materials including cans, bottles, sheetmetal, and wire. The site appears to be pre-Hanford homestead debris including metal, glass, and wire from wooden irrigation pipe.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-235	Dumping Area	100-IU-6	127 Miles	1943 - Present	This site includes buried inactive lead-sheathed cable that was abandoned in place as part of the Integrated Voice Data Telephone System that was installed in 1988 by U.S. West. This system installed new telephone equipment in most buildings and installed new telephone switching facilities. In some cases, the new system reused portions of the old cables.	No Action	WSRF 2001-091	N/A	N/A	08-Sep-04 16-Sep-04 29-Sep-04	N/A	N/A		Soil	Asphalt Insulating Material	Copper Wire Paper Insulating Material	\	\	\	\
													Arsenic	7.0	2.3	\	\	\	\	\
													Barium	91.6 CJ	37.8	\	\	\	\	\
													Cadmium	0.83	0.15	\	\	\	\	\
													Chromium	46.6	17.5	\	\	\	\	\
													Lead	34.2	1060	\	\	\	\	\
													Mercury	0.02 U	0.17	\	\	\	\	\
													Selenium	1.2 U	0.64	\	\	\	\	\
													Silver	0.27	0.48 U	\	\	\	\	\
													Asbestos	\	None	None	\	\	\	\
													PCBs	0.014 U	0.21 U	0.17 U	\	\	\	\
													Acenaphthene	1.2 J	690 UD	\	\	\	\	\
													Anthracene	0.0025 J	73 JD	\	\	\	\	\
													Benzo(a)anthracene	0.79 J	560 JD	\	\	\	\	\
													Benzo(a)pyrene	1.7 J	210 JD	\	\	\	\	\
													Benzo(b)fluoranthene	6.8 J	260 JD	\	\	\	\	\
													Benzo(ghi)perylene	1.7 J	110 JD	\	\	\	\	\
													Benzo(k)fluoranthene	1.6 J	300 JD	\	\	\	\	\
													Carbazole	\	350 JD	\	\	\	\	\
													Chrysene	2.0 J	560 JD	\	\	\	\	\
													Dibenz(a,h)anthracene	0.24 J	40 JD	\	\	\	\	\
													Fluoranthene	3.5 J	3000 D	\	\	\	\	\
													Fluorene	0.62 J	690 UD	\	\	\	\	\
													Indeno(1,2,3-cd)pyrene	2.1 J	110 JD	\	\	\	\	\
													Phenanthrene	0.20 J	770 D	\	\	\	\	\
													Pyrene	1.9 J	1800 D	\	\	\	\	\
600-239	Dumping Area	100-IU-6	Not Documented	Not Documented	The site contains several large wooden beams, wooden pallets, large-diameter steel pipe, steel plates, large mesh steel screens, and rubber tires. All wastes observed were lying in neat piles on the ground surface within a pit; none appeared to be partially buried. This gravel pit was related to the adjacent Hot Mix Plant (600-20, reclassified as Rejected). However, some of the stored materials in the pit may have come from other projects. There is no evidence of any hazardous materials at the site.	No Action	WSRF 2001-017	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-240	Dumping Area	100-IU-6	Not Documented	Not Documented	The site is metal and wooden debris scattered within Gravel Pit 17. The debris originated from the 615 Hot Mix Plant and operation of the gravel pit (Hanford Aggregate Pit). The waste is metal pipe, coarse mesh screens, wood, sheetmetal, concrete, a rubber tire, and a pile of asphalt pieces mixed with soil, gravel, and cobble. To the east of the pit is an irregularly shaped pile of a mix of asphalt pieces, soil, gravel, and cobble, about 12 m by 3.5 m by 1 m high (40 ft by 12 ft by 3 ft high). This pit is related to the adjacent Hot Mix Plant (600-20, reclassified as Rejected), and adjacent to Pit 16, Site 600-239.	Rejected	WSRF 2001‑018	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-250	Dumping Area	100-IU-6	Not Documented	Not Documented	The site is a recorded cultural resources site, a historic homestead where rusty sheet metal vent ducting and other miscellaneous debris have been abandoned, including broken bricks and concrete, old lumber, metal cables, and wiring. Some of the debris extends onto the top of the bank, including some half-buried, rusty cans.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-251	Dumping Area	100-IU-6	0.38 m (1.25 ft) diameter x 1.52 m (5 ft) deep	Not Documented	The site is a near-vertical steel pipe with the aboveground portion of the pipe approximately 1.2 m (4 ft) in length. The reason the pipe is tilted is not known. The pipe was reported to WIDS as a result of RCRA General Inspection in 1997. It will be decommissioned as a well in the future.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-257	Storage	100-IU-6	12.2 m x 3.7 m x 2.4 m (40 ft x 12 ft x 8 ft)	1944-2002	The site refers only to the 213-J Vault. The vaults were two parallel reinforced concrete, earth-covered storage facilities. The vaults were originally built in 1944 to store containers of processed plutonium product. They were used only briefly for that purpose. The 213-J Vault had recently been used by PNNL for storing uncontaminated soil samples from around the world for use in fallout studies by the Environmental Sciences Department. The samples were removed from the vault in March 2002. No contamination above background was found.	Interim Closed Out	WSRF 2011-051	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-263	Dumping Area	100-IU-2	5 m x 2 m (16 ft x 6 ft)	Not Documented	This site is an area of scattered cans. The cans were rusty and approximately 20 cm (8 inches) long. Most of the cans are broken open, revealing their current contents of calcium carbonate.	Rejected	WSRF 2001-014	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-272	Unplanned Release	100-IU-6	Not Documented	Not Documented	The site consists of hydrocarbon contamination in well 699-43-2, which is a 16.8 cm (6 5/8-in.) diameter well with a 10 cm (4-in.) PVC liner. Limited information is available about well construction. The well is believed to have been drilled to a depth of 120 m (390 ft) in 1980 to support geologic studies for reactor siting. The well is currently 103.4 m (339 ft) deep. The depth to water is 9 m (26 ft) below land surface. It is believed that the well is not screened to groundwater and is open at the bottom.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-279	Dumping Area	100-IU-2	37 m x 30 m (120 ft x 100 ft)	Not Documented	The site is a large area of white ash surrounded by dried grass. The site is apparently related to an old orchard. It is suspected that the site is the remains of a burned storage shed. The yellow material has a sulfur odor. Sulfur was used in orchards to control mold on fruit. The burned metal pieces could be pieces of farm equipment.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-280	Dumping Area	100-IU-6	10 m x 6 m (33 ft x 20 ft)	Not Documented	The site consisted an area where tar was dumped. The site has patches of hardened tar.	Interim Closed Out	WSRF 2011-014	23-Feb-10	23-Feb-10	12-Oct-10	23.7	0.3	Aluminum	5640	\	\	\	\	\	\
													Antimony*	1.66 J	\	\	\	\	\	\
													Arsenic*	2.42	\	\	\	\	\	\
													Barium*	61.2	\	\	\	\	\	\
													Beryllium*	0.255	\	\	\	\	\	\
													Boron*	0.916 B	\	\	\	\	\	\
													Cadmium	0.189 U	\	\	\	\	\	\
													Calcium	3650	\	\	\	\	\	\
													Chromium*	5.7	\	\	\	\	\	\
													Cobalt*	5.57	\	\	\	\	\	\
													Copper*	10.5	\	\	\	\	\	\
													Iron	23000	\	\	\	\	\	\
													Lead*	22.7 J	\	\	\	\	\	\
													Magnesium	4010 J	\	\	\	\	\	\
													Manganese*	311	\	\	\	\	\	\
													Molybdenum*	0.406 B	\	\	\	\	\	\
													Nickel*	7.63	\	\	\	\	\	\
													Potassium	1240	\	\	\	\	\	\
													Selenium	0.283 U	\	\	\	\	\	\
													Silicon	376 J	\	\	\	\	\	\
													Silver	0.189 U	\	\	\	\	\	\
													Sodium	190	\	\	\	\	\	\
													Vanadium*	65.5	\	\	\	\	\	\
													Zinc*	43.3	\	\	\	\	\	\
													TPH Diesel Range	3.46 U	\	\	\	\	\	\
													TPR Motor Oil*	76.1 J	\	\	\	\	\	\
													Pesticides	U	\	\	\	\	\	\

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs.							
600-283	Dumping Area	100-IU-6	Not Documented	Not Documented	The site is currently an area of recently excavated gravel material. It is not marked or posted. There is no visual evidence of buried material. Gravel Pit #11 is an active gravel pit. Material is removed from the pit periodically. Nothing unusual has been reported during excavation of material in the southeast portion of the pit. It is suspected that equipment was placed in this portion of the pit.	Not Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-293	Unplanned Release	100-IU-2	24.7 m x 26.6 m (81 ft x 87 ft)	1944 - 1975	The service station supported the White Bluffs Central Shops. This site may include USTs, associated piping, and the underlying soil. This facility was used to dispense fuel for automotive use. The service station was demolished in 1975, but no documentation was found related to removing any USTs. A subsidence area was noted at the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-294	Unplanned Release	100-IU-2	Not Documented	1944 - 1975	The site was the location of a service station with the potential for USTs, associated piping, and underlying soils. The service station contained two gasoline pumps and two buried tanks with a total capacity of 15,000 L (4,000 gal), one diesel fuel pump, and a 3,785 L (1,000-gal) buried tank. The waste includes petroleum product-contaminated soil, USTs, and associated piping. Contaminants of potential concern may include petroleum products (TPH, PAH) and possibly ICP metals. The service station was demolished and buried in place in 1975.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-295	Unplanned Release	100-IU-2	40 m x 12 m (130 ft x 40 ft)	Not Documented	The site consisted of surface and underlying soils associated with the former Paint Shop that was used to support the White Bluffs Central Shops. Contaminants of potential concern included VOAs, SVOAs, and ICP metals with mercury in the soil. The paint shop is associated with the 600-176 dump site.	Interim Closed Out	WSRF 2011-007	The 600-295 site was remediated concurrently with the 600-176 waste site; therefore, data from the verification sampling of the 600-176 waste site supports the closeout of the 600-295 waste site. Residual concentrations of contaminants of potential concern were all less than the remedial action goals specified in the interim record of decision.											
600-296	Septic Tank	100-IU-2	Not Documented	Not Documented	The site consisted of the septic system for the White Bluffs Fire Department. Focused samples collected from the septic tank and the underlying soils were used to evaluate the waste site. During the excavation, the concrete septic tank was found to be intact with no lid and previously backfilled. The septic tank contained metal and wood debris and a demolished manhole or French drain.	No Action	WSRF 2011-015	N/A	N/A	26-Oct-10 (Confirmatory Sampling)	N/A	3.7 (Sample Depth)		Soil	Tank Contents	\	\	\	\	\
													Aluminum	7210 J	7140 J	\	\	\	\	\
													Antimony	0.40 U	0.42 U	\	\	\	\	\
													Arsenic	2.6	2-Mar	\	\	\	\	\
													Barium	58.5	741	\	\	\	\	\
													Beryllium	0.057 B	0.065 B	\	\	\	\	\
													Boron	1.2 B	2.1	\	\	\	\	\
													Cadmium	0.088 B	0.65	\	\	\	\	\
													Calcium	6200 J	4960 J	\	\	\	\	\
													Chromium	11.2	12.6	\	\	\	\	\
													Cobalt	6.2	6	\	\	\	\	\
													Copper	15.4	31	\	\	\	\	\
													Iron	15900 J	16000 J	\	\	\	\	\
													Lead	7.3	59.3	\	\	\	\	\
													Magnesium	4360	3630	\	\	\	\	\
													Manganese	267	287	\	\	\	\	\
													Mercury	0.0083 BM	0.65	\	\	\	\	\
													Molybdenum	0.27 U	0.59 B	\	\	\	\	\
													Nickel	10.5	12.7	\	\	\	\	\
													Potassium	1120	1340	\	\	\	\	\
													Selenium	0.90 U	0.95 U	\	\	\	\	\
													Silicon	219 J	222 J	\	\	\	\	\
													Silver	0.20 B	0.21	\	\	\	\	\
													Sodium	218	313	\	\	\	\	\
													Vanadium	38.5	36.5	\	\	\	\	\
													Zinc	35	123	\	\	\	\	\
													Bis(2-ethylhexyl) phthalate*	0.053 U	0.055 J	\	\	\	\	\
													Di-n-butylphthalate	0.033 U	0.051 J	\	\	\	\	\
													Aroclor-1260	0.003 U	0.12 DJ	\	\	\	\	\
													alpha-Chlordane	0.00037 U	0.093 DJ	\	\	\	\	\
													4,4'-DDD	0.00063 U	0.035 DJ	\	\	\	\	\
													4/4'-DDE	0.00027 U	0.0032	\	\	\	\	\
													Endrin	0.00035 U	0.0016 JX	\	\	\	\	\
													gamma-Chlordane*	0.00031 U	0.094 DJ	\	\	\	\	\
													Heptachlor	0.00025 U	0.00045 JX	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the SVOAs, PCBs, and pesticides that were detected.							
600-297	Settling Tank	100-IU-2	Not Documented	Not Documented	The site consisted of what was originally believed to be a septic tank and any contaminated soils that were associated with a White Bluffs sewer system. However, during the remedial action, it was determined that this tank was actually used to facilitate the separation of solids before discharge of liquids to the filter and leaching bed where spent pickling acid waste was disposed from the 600-106, White Bluffs Pickling Acid Crib.	Interim Closed Out	RSVP-2004-0063	Because of their proximity, remediation of the 600-297 and 600-120 sites occurred together. Refer to site 600-120.											

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														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-298:1 (subsite)	Unplanned Release	100-IU-2	2 m x 10 m (6.6 ft x 33 ft)	Not Documented	The subsite consists of an area approximately 2 by 10 m (6.6 by 33 ft) with dark stained soil. There was a notable fuel-like odor. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-298:2 (subsite)	Unplanned Release	100-IU-2	1 m x 1 m (3.3 ft x 3.3 ft)	Not Documented	The subsite consists of an area approximately 1 by 1 m (3.3 by 3.3 ft) area with a notable yellowish stained soil. A hard crust covers the stained area. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-298:3 (subsite)	Unplanned Release	100-IU-2	2 - 1 m (3.3 ft) square	Not Documented	The subsite consists of two spots 1 m (3.3 ft) square each, 1 m (3.3 ft) apart with discolored soil and distressed vegetation. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-298:4 (subsite)	Unplanned Release	100-IU-2	20 m x 24 m x 0.203 m (65 ft x 80 ft x 0.67 ft) 5 m x 15 m (16 ft x 49 ft)	Not Documented	The subsite consists of two areas. The first was identified as an area of reddish angular material, possibly iron metal. The material, approximately 20.3 cm (0.67 ft) deep, covers an area approximately 20 by 24 m (65 by 80 ft). The second was identified as an area of dark stained soil approximately 5 m by 15 m (16 ft by 49 ft). There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-298:5 (subsite)	Unplanned Release	100-IU-2	4 m x 12 m (13 x 39 ft)	Not Documented	The subsite consists of a 4 by 12 m (13 by 39 ft) area of three small yellow stains and no vegetation. There is also some wood and metal debris. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-298:6 (subsite)	Unplanned Release	100-IU-2	Not Documented	Not Documented	The subsite consists of discolored soil, suspect asbestos- containing material, white porcelain fragments, wood fragments, and two small depressions within the disturbed area. One of the depressions is 0.3 m (12 in.) deep by 0.2 m (8 in.) in diameter. There is also a 7.6 cm (3 in.) steel pipe, a welded flat iron, and possible subsurface debris. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-298:7 (subsite)	Unplanned Release	100-IU-2	1 m x 2 m (3 ft x 6 ft)	Not Documented	The subsite consists of a wooden floor-like structure of approximately 1 by 2 m (3 by 6 ft) with remnants of a thin stained layer of material. The site lacks vegetation. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-298:8 (subsite)	Unplanned Release	100-IU-2	1 m x 2 m (3 ft x 6 ft)	Not Documented	The subsite consists of a wooden floor-like structure of approximately 1 by 2 m (3 by 6 ft) with remnants of a thin stained layer of material. The site lacks vegetation. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-299:1 (subsite)	Unplanned Release	100-IU-2	Not Documented	Not Documented	The subsite consists of scattered remnants of batteries that are located throughout the area. Most have been removed with the exception of what appear to be thousands of wet cell battery caps. Yellow staining of the soil is found in some places. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-299:2 (subsite)	Unplanned Release	100-IU-2	Not Documented	Not Documented	The subsite consists of a 6 volt wet cell car battery in a small dump site. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-299:3 (subsite)	Unplanned Release	100-IU-2	1 m (3 ft) diameter	Not Documented	The subsite consists of a pile of old dry cell batteries in a degraded condition covering an area approximately 1 m (3 ft) in diameter. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-299:4 (subsite)	Unplanned Release	100-IU-2	1 m (3 ft) diameter	Not Documented	The subsite consists of a few scattered batteries in an area less than 1 m (3 ft) in diameter among scattered debris (e.g., metal cans, containers, and broken glass) from a pre-Hanford agricultural dump site. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-299:5 (subsite)	Unplanned Release	100-IU-2	1 m (3 ft) diameter	Not Documented	The subsite consists of a concentration of degraded dry cell batteries in a 1 m (3 ft) diameter area. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-299:6 (subsite)	Unplanned Release	100-IU-2	3 m x 3 m (10 ft x 10 ft)	Not Documented	The subsite consists of homestead type surface debris covering an area approximately 3 by 3 m (10 by 10 ft). It is primarily broken glass and metallic debris with a few scattered remnants from dry cell batteries. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-300:1 (subsite)	Unplanned Release	100-IU-2	Not Documented	Not Documented	The subsite consists of a single 208 L (55 gal) drum with the lid missing and tar inside. The drum is approximately 50% full. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-300:2 (subsite)	Unplanned Release	100-IU-2	2 m x 2 m (6 ft x 6 ft)	Not Documented	The subsite consists of a 2 by 2 m (6.6 x 6.6 ft) area with dried, bright yellow paint chips. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-300:3 (subsite)	Unplanned Release	100-IU-2	Not Documented	Not Documented	The subsite consists of a 7.6 L (2 gal) bucket that is approximately two-thirds full of what appears to be paint. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-300:4 (subsite)	Unplanned Release	100-IU-2	Not Documented	Not Documented	The subsite consists of an enclosed container, approximately 19 L (5 gal). It appears to be mostly empty but field personnel were not sure. This container may have been used for desiccant or other dry materials. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-300:5 (subsite)	Unplanned Release	100-IU-2	3 m x 3 m (10 ft x 10 ft)	Not Documented	The subsite consists of various size containers from 2 to 9 L (0.5 to 5 gal). Some are empty while others are partially full of suspect petroleum product. There are approximately ten containers in a 3 by 3 m (10 by 10 ft) area. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-300:6 (subsite)	Unplanned Release	100-IU-2	Not Documented	Not Documented	The subsite consists of an unknown white solid substance spilling out of a ruptured rusty metal can that is approximately 1 L (0.26 gal) in size. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-300:7 (subsite)	Unplanned Release	100-IU-2	Not Documented	Not Documented	The subsite consists of an unknown white solid substance spilling out of a ruptured rusty metal can that is approximately 1 L (0.26 gal) in size. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-300:8 (subsite)	Unplanned Release	100-IU-2	Not Documented	Not Documented	The subsite consists of an unknown white solid substance spilling out of a ruptured rusty metal can that is approximately 1 L (0.26 gal) in size. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-300:9 (subsite)	Unplanned Release	100-IU-2	Not Documented	Not Documented	The subsite consists of an intact rusted 113 L (30 gal) drum. There is no way to determine whether the drum is empty. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-300:10 (subsite)	Unplanned Release	100-IU-2	Not Documented	Not Documented	The subsite consists of a single 208-L (55-gal) drum partially buried and mangled. It is not possible to determine if the drum is empty. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-300:11 (subsite)	Unplanned Release	100-IU-2	Not Documented	Not Documented	The subsite consists of a single 208-L (55-gal) drum partially buried and mangled. It is not possible to determine if the drum is empty. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-300:12 (subsite)	Unplanned Release	100-IU-2	1 m (3 ft) diameter	Not Documented	The subsite consists of concentrated debris of rusted metal including metal turnings, wood, and one dry cell battery. There is no vegetation in about a 1 m (3 ft) diameter area. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-301	Sanitary Sewer	100-IU-2	Not Documented	1943-1952	The site consists of the White Bluffs Shops sewer system and underlying soils and four suspected related features that are isolated discreet locations. The site does not include the Imhoff septic tank or the sanitary tile field (see 600-106), but does include the sanitary sewer piping from the Imhoff tank to the tile field.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-302	French Drain	100-IU-2	Not Documented	Not Documented	The site consists of a French drain with a vent pipe.	No Action	WSRF 2010-095	N/A	N/A	19-Oct-10 (Confirmatory sampling)	N/A	N/A	Aluminum	6120	\	\	\	\	\	\
													Antimony*	0.40 JB	\	\	\	\	\	\
													Arsenic*	2.5	\	\	\	\	\	\
													Barium*	64.3 J	\	\	\	\	\	\
													Beryllium*	0.10 B	\	\	\	\	\	\
													Boron	0.97 U	\	\	\	\	\	\
													Cadmium*	0.21	\	\	\	\	\	\
													Calcium	2970	\	\	\	\	\	\
													Chromium*	8.7	\	\	\	\	\	\
													Cobalt*	5.8	\	\	\	\	\	\
													Copper*	15	\	\	\	\	\	\
													Iron	13800 J	\	\	\	\	\	\
													Lead*	6.5	\	\	\	\	\	\
													Magnesium	3840	\	\	\	\	\	\
													Manganese*	252	\	\	\	\	\	\
													Mercury*	0.0092 B	\	\	\	\	\	\
													Molybdenum*	0.34 B	\	\	\	\	\	\
													Nickel*	10.6	\	\	\	\	\	\
													Potassium	1100	\	\	\	\	\	\

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Selenium	0.83 U	\	\	\	\	\	\
													Silicon	353 J	\	\	\	\	\	\
													Silver	0.16 U	\	\	\	\	\	\
													Sodium	126	\	\	\	\	\	\
													Vanadium*	27.5	\	\	\	\	\	\
													Zinc*	122	\	\	\	\	\	\
													Bromide	0.40 U	\	\	\	\	\	\
													Chloride*	2.1 B	\	\	\	\	\	\
													Fluoride*	1.6 B	\	\	\	\	\	\
													Nitrogen in Nitrate*	1.3 JB	\	\	\	\	\	\
													Nitrogen in Nitrite*	0.35 UR	\	\	\	\	\	\
													Nitrogen in Nitrate/Nitrite	0.85 JB	\	\	\	\	\	\
													Orthophosphate	2.1 UR	\	\	\	\	\	\
													Sulfate*	3.7 B	\	\	\	\	\	\
													Aroclor-1260*	0.0076 J	\	\	\	\	\	\
													SVOAs	U	\	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the SVOAs and PCBs that were detected.							
600-303	Unplanned Release	100-IU-2	3 m x 3 m (10 ft x 10 ft)	Not Documented	The site consists of a 3 by 3 m (10 by 10 ft) area with four vertical pipes, 4 to 6 cm (1 to 1.5 in.) in diameter sticking out of the ground. The purpose of the pipes is unknown.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-304	Product Piping	100-IU-2	Not Documented	Not Documented	The site consists of the White Bluffs sanitary water service piping as shown on construction drawing H-11-3709, and three associated features.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-305:1 (subsite)	Unplanned Release	100-IU-2	Not Documented	Not Documented	The subsite consists of a roll of roofing product that is potential asbestos-containing material. There is no process history associated with this site.	Interim Closed Out	WSRF 2012-070	4-Apr-12	4-Apr-12	5-Apr-12	9 BCM	N/A	See WSRF 2012-070							
600-305:2 (subsite)	Unplanned Release	100-IU-2	3 m x 3 m (10 ft x 10 ft)	Not Documented	The subsite consists of a 3 by 3 m (10 by 10 ft) area of insulating material that is potential asbestos-containing material. There is no process history associated with this site.	Interim Closed Out	WSRF 2012-070	4-Apr-12	4-Apr-12	5-Apr-12	See 600-305:1	N/A	See WSRF 2012-070							
600-305:3 (subsite)	Unplanned Release	100-IU-2	Not Documented	Not Documented	The subsite consists of fabric-like material that is potential asbestos-containing material. There is no process history associated with this site.	Interim Closed Out	WSRF 2012-070	14-May-12	14-May-12	21-May-12	Not documented	N/A	See WSRF 2012-070							
600-305:4 (subsite)	Unplanned Release	100-IU-2	2 m x 2 m (6 ft x 6 ft)	Not Documented	The subsite consists of a 2 by 2 m (6 by 6 ft) area with potential asbestos-containing material insulation that might also be fiberglass. There is no process history associated with this site.	Interim Closed Out	WSRF 2012-070	14-May-12	14-May-12	21-May-12	2 BCM	N/A	See WSRF 2012-070							
600-305:5 (subsite)	Unplanned Release	100-IU-2	Not Documented	Not Documented	The subsite consists of two sheets of insulation that are potential asbestos-containing material. The sheets are roughly 8 m (26 ft) apart. There is no process history associated with this site.	Interim Closed Out	WSRF 2012-070	15-May-12	15-May-12	21-May-12	20 BCM	N/A	See WSRF 2012-070							
600-306	Burn Pit	100-IU-2	Not Documented	Not Documented	The site consists of a burned area with metal, wood, nails, iron plate, tar paper, and the underlying soil. The site was used to burn various materials. It is not known if it is from pre-Hanford or Hanford activities.	Interim Closed Out	WSRF 2012-031	3-Apr-12	4-Apr-12	11-Apr-12	74 BCM	1	See WSRF 2012-031							
600-307	Burn Pit	100-IU-2	Not Documented	Not Documented	The site consists of a burned area with metal, wood, tar paper, and the underlying soil. The site was used to burn various materials. It is not known if it is from pre-Hanford or Hanford activities.	Interim Closed Out	WSRF 2012-032	3-Apr-12	3-Apr-12	4-Apr-12	88 BCM	1	See WSRF 2012-032							
600-308	Unplanned Release	100-IU-2	Not Documented	Not Documented	This site consists of underlying soil and scattered garnet sand. Garnet sand was typically used as a sand blasting material for painting preparation.	Interim Closed Out	WSRF 2012-060	29-May-12	29-May-12	30-May-12	62 BCM	N/A	See WSRF 2012-060							
600-309	Burn Pit	100-IU-2	Not Documented	Not Documented	The site consists of a burned area with wood, clay pipe, fabric (suspect asbestos-containing material), rubber hoses, and the underlying soil. There is also dumped soil and cobbles. The site was used as a dump and to burn various materials.	Interim Closed Out	WSRF 2012-040	23-May-12	24-May-12	30-May-12	99 BCM	N/A	See WSRF 2012-040							
600-310	Burn Pit	100-IU-2	Not Documented	Not Documented	The site consists of a burned area with glass, cinders, slag, metal, and the underlying soil. The site was used to burn various materials.	Interim Closed Out	WSRF 2012-041	22-May-12	23-May-12	30-May-12	90 BCM	N/A	See WSRF 2012-041							
600-311	Burn Pit	100-IU-2	2 m x 2 m (6 ft x 6 ft)	Not Documented	The site consists of a 2 by 2 m (6 by 6 ft) area of concentrated burned debris and the underlying soil. Remnants of the burned debris include nails and tar-like roofing material. It appears to be next to an area where a building had once been. The site was used to burn various materials.	Interim Closed Out	WSRF 2012-042	14-May-12	14-May-12	17-May-12	8 BCM	N/A	See WSRF 2012-042							
600-312	Burn Pit	100-IU-2	3 m x 3 m (10 ft x 10 ft)	Not Documented	The site consists of a 3 by 3 m (10 x 10 ft) area of concentrated burn debris and the underlying soil. Remnants of the burned debris include nails and tar-like roofing material. It appears to be next to an area where a building had once been. The site was used to burn various materials.	Interim Closed Out	WSRF 2012-043	14-May-12	14-May-12	17-May-12	13 BCM	N/A	See WSRF 2012-043							
600-313	Burn Pit	100-IU-6	Not Documented	Not Documented	The site consists of potentially contaminated soil that is either an oil stain or burned area. The process for which the site was burned is unknown.	Interim Closed Out	WSRF 2012-044	16-May-12	16-May-12	30-May-12	22 BCM	N/A	See WSRF 2012-044							

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-314:1 (subsite)	Unplanned Release	100-IU-6	Not Documented	Not Documented	The subsite is a probable telecommunications component (junction or splice box) that has hardened black liquid (possibly tar) on the outside surface. The suspect telephone communication components measure 40.6 by 22.9 cm (16 by 9 in.) in diameter. There is no process history associated with this subsite.	Interim Closed Out	WSRF 2012-045	1-May-12	14-May-12	N/A	Not documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-314:2 (subsite)	Unplanned Release	100-IU-6	Not Documented	Not Documented	The subsite is a probable telecommunications component (junction or splice box) that has hardened black liquid (possibly tar) on the outside surface. The suspect telephone communication components measure 40.6 by 22.9 cm (16 by 9 in.) in diameter. There is no process history associated with this subsite.	Interim Closed Out	WSRF 2012-045	1-May-12	14-May-12	N/A	Not documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-314:3 (subsite)	Unplanned Release	100-IU-6	Not Documented	Not Documented	The subsite is a probable telecommunications component (junction or splice box) that has hardened black liquid (possibly tar) on the outside surface. The suspect telephone communication components measure 40.6 by 22.9 cm (16 by 9 in.) in diameter. There is no process history associated with this subsite.	Interim Closed Out	WSRF 2012-045	1-May-12	14-May-12	N/A	Not documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-314:4 (subsite)	Unplanned Release	100-IU-6	Not Documented	Not Documented	The subsite is a probable telecommunications component (junction or splice box) that has hardened black liquid (possibly tar) on the outside surface. The suspect telephone communication components measure 40.6 by 22.9 cm (16 by 9 in.) in diameter. There is no process history associated with this subsite.	Interim Closed Out	WSRF 2012-045	1-May-12	14-May-12	N/A	Not documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-314:5 (subsite)	Unplanned Release	100-IU-6	Not Documented	Not Documented	The subsite is a probable telecommunications component (junction or splice box) that has hardened black liquid (possibly tar) on the outside surface. The suspect telephone communication components measure 40.6 by 22.9 cm (16 by 9 in.) in diameter. There is no process history associated with this subsite.	Interim Closed Out	WSRF 2012-045	1-May-12	14-May-12	N/A	Not documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-315	Unplanned Release	100-IU-6	Not Documented	Not Documented	The site consists of underlying soils with a black granular stain on the surface with a diameter of 4 m (13 ft). There is very little vegetation in the affected area. The source of the black surface staining is unknown. It is possibly related to historical farmstead activities or may be associated with early use of the nearby gravel pit.	No Action	WSRF 2011-24	N/A	N/A	02-Nov-10 (Confirmatory sampling)	N/A	N/A		Soil	Black Material	N/A	N/A	N/A	N/A	N/A
													Aluminum	3060	2140	\	\	\	\	\
													Antimony	0.41 UJ	0.40 UJ	\	\	\	\	\
													Arsenic*	1.8	2	\	\	\	\	\
													Barium*	71.9	90.1	\	\	\	\	\
													Beryllium*	0.29	0.46	\	\	\	\	\
													Boron*	7.7	13.3	\	\	\	\	\
													Cadmium*	0.33 M	0.64	\	\	\	\	\
													Calcium	4260	4250	\	\	\	\	\
													Chromium*	4.3 MJ	5.3 J	\	\	\	\	\
													Cobalt*	3.5	2.9	\	\	\	\	\
													Copper*	7.9	6.3	\	\	\	\	\
													Iron	8980	7480	\	\	\	\	\
													Lead*	5.6	7.4	\	\	\	\	\
													Magnesium	1990 L	1360 L	\	\	\	\	\
													Manganese*	169 J	130 J	\	\	\	\	\
													Mercury*	0.017 B	0.017 B	\	\	\	\	\
													Molybdenum*	0.30 B	0.41 B	\	\	\	\	\
													Nickel*	4.9	4.9	\	\	\	\	\
													Potassium	1630	2040	\	\	\	\	\
													Selenium*	0.93 U	1.4	\	\	\	\	\
													Silicon	218 J	233 J	\	\	\	\	\
													Silver	0.017 U	0.17 U	\	\	\	\	\
													Sodium	113 B	77.1 B	\	\	\	\	\
													Vanadium*	17.6	15.1	\	\	\	\	\
													Zinc*	24.2 JL	19.2 JL	\	\	\	\	\
													TPH - Diesel Range*	64	66	\	\	\	\	\
													TPH - Diesel Range EXT*	110	110	\	\	\	\	\
													Acenaphthylene*	0.0093 U	0.048 JX	\	\	\	\	\
													Phenanthrene*	0.012 U	0.067	\	\	\	\	\
													PCBs	U	U	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the PAHs that were detected.							
600-316:1 (subsite)	Unplanned Release	100-IU-2	1 m (3 ft) diameter	Not Documented	The subsite consists of debris from a dry cell battery pack in an area less than 1 m (3 ft) in diameter. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-316:2 (subsite)	Unplanned Release	100-IU-2	5 m (16 ft) diameter	Not Documented	The subsite consists of farmstead debris including items such as cans and bottles and includes four dry cell batteries in a 5 m (16 ft) diameter area. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-316:3 (subsite)	Unplanned Release	100-IU-2	1 m (3 ft) diameter	Not Documented	The subsite consists of debris from a dry cell battery pack. The affected area is less than 1 m (3 ft) in diameter. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-316:4 (subsite)	Unplanned Release	100-IU-2	1 m (3 ft) diameter	Not Documented	The subsite consists of debris from a dry cell battery pack. The affected area is less than 1 m (3 ft) in diameter. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-316:5 (subsite)	Unplanned Release	100-IU-2	1 m (3 ft) diameter	Not Documented	The subsite consists of debris from dry cell carbon core batteries in an area less than 1 m (3 ft) in diameter. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-316:6 (subsite)	Unplanned Release	100-IU-2	Not Documented	Not Documented	The subsite consists of debris from a single dry cell battery. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-317	Burn Pit	100-IU-6	Not Documented	Not Documented	The site consists of underlying soil with scattered surface debris including wet cell battery plates, burned material, and a white granular substance. It is located in the bottom of a borrow pit. The process for which this site was burned is unknown.	Interim Closed Out	WSRF 2012-046	21-May-12	22-May-12	30-May-12	80 BCM	N/A	See WSRF 2012-046							
600-318:1 (subsite)	Unplanned Release	100-IU-6	3 m (10 ft) diameter	Not Documented	The subsite consists of a 3 m (10 ft) diameter area of wet cell battery debris. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-318:2 (subsite)	Unplanned Release	100-IU-6	3 m (10 ft) diameter	Not Documented	The subsite consists of a 3 m (10 ft) diameter area of wet cell battery debris. It appears to have been a car battery. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-318:3 (subsite)	Unplanned Release	100-IU-6	Not Documented	Not Documented	The subsite consists of lead battery debris in an area less than 1 m (3 ft) diameter next to a 4 m by 15 m (13 by 50 ft) concrete slab with a smaller slab. There is also a 3.8 cm (1.5 in.) iron pipe and automotive debris present. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-318:4 (subsite)	Unplanned Release	100-IU-6	1 m (3 ft) diameter	Not Documented	The subsite consists of lead battery debris in an area less than 1 m (3 ft) in diameter. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-318:5 (subsite)	Unplanned Release	100-IU-6	4 m x 8 m (13 ft x 26 ft)	Not Documented	The subsite consists of a 4 m by 8 m (13 by 26 ft) automotive shop dump area with lead battery debris. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-319:1 (subsite)	Unplanned Release	100-IU-6	7 m (23 ft) diameter	Not Documented	The subsite consists of a 7 m (23 ft) diameter area of concentrated ferrous metal turnings, broken glass, and orange stained soil. There is no process history associated with this site.	Interim Closed Out	WSRF 2012-071	23-May-12	23-May-12	30-May-12	62 BCM	N/A	See WSRF 2012-071							
600-319:2 (subsite)	Unplanned Release	100-IU-6	0.5 m x 0.5 m x 0.5 m (2 ft x 2 ft x 2 ft)	Not Documented	The subsite consists of a 0.5 by 0.5 m (2 by 2 ft) wooden-lined below grade structure that is 0.5 m (2 ft) deep. It contains empty paint and paint thinner cans. One empty can of military paint thinner has a date of 1956. There is no process history associated with this site.	Interim Closed Out	WSRF 2012-071	4-May-12	4-May-12	15-May-12	7 BCM	N/A	See WSRF 2012-071							
600-319:3 (subsite)	Unplanned Release	100-IU-6	2 m x 4 m (6 ft x 13 ft)	Not Documented	The subsite consists of a small area of suspected dried paint. It is approximately 2 m by 4 m (6 by 13 ft). There is no process history associated with this site.	Interim Closed Out	WSRF 2012-071	10-Aug-11	10-Aug-11	6-Aug-11	7 BCM	N/A	See WSRF 2012-071							
600-320:1 (subsite)	Unplanned Release	100-IU-6	3 m x 4 m (10 ft x 13 ft)	Not Documented	The subsite is a suspected oil dump area that is approximately 3 by 4 m (10 by 13 ft). The soil is crusted and no vegetation is growing in the affected area. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-320:2 (subsite)	Unplanned Release	100-IU-6	8 m x 5 m (26 ft x 16 ft)	Not Documented	The subsite consists of an oil dump area that is approximately 8 by 5 m (26 by 16 ft). There are two oil filters on the ground, and the soil is crusted, with no vegetation growing in the affected area. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-320:3 (subsite)	Unplanned Release	100-IU-6	3 m (10 ft) diameter	Not Documented	The subsite consists of a suspected oil and tar dump area that is approximately 3 m (10 ft) in diameter. The soil is crusted and no vegetation is growing in the affected area. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-320:4 (subsite)	Unplanned Release	100-IU-6	2 m (6 ft) diameter	Not Documented	The subsite is a suspected oil dump area that is approximately 2 m (6 ft) in diameter. The soil is crusted and no vegetation is growing in the affected area. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-320:5 (subsite)	Unplanned Release	100-IU-6	2 m (6 ft) diameter	Not Documented	The subsite is a suspected oil dump area that is approximately 2 m (6 ft) in diameter. The soil is crusted and no vegetation is growing in the affected area. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-320:6 (subsite)	Unplanned Release	100-IU-6	0.5 m (2 ft) diameter	Not Documented	The subsite is a suspected oil dump area that is approximately 0.5 m (2 ft) in diameter. The soil is crusted and no vegetation is growing in the affected area. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-320:7 (subsite)	Unplanned Release	100-IU-6	3 m (10 ft) diameter	Not Documented	The subsite is a 3 m (10 ft) diameter area with no vegetation growing and crust-like surface. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-320:8 (subsite)	Unplanned Release	100-IU-6	2 m (6 ft) diameter	Not Documented	The subsite is a suspected oil dump area that is approximately 2 m (6 ft) in diameter. The soil is crusted and no vegetation is growing in the affected area. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-320:9 (subsite)	Unplanned Release	100-IU-6	Not Documented	Not Documented	The subsite is an area with tar visible on the surface. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-321:1 (subsite)	Unplanned Release	100-IU-6	7 m x 10 m (23 ft x 33 ft)	Not Documented	The subsite consists of an area approximately 7 by 10 m (23 by 33 fat) of suspect friable asbestos insulation, metal, fire brick, and pipe lagging. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-321:2 (subsite)	Unplanned Release	100-IU-6	1.5 m (5 ft) diameter	Not Documented	The subsite consists of an area approximately 1.5 m (5 ft) in diameter of suspect friable asbestos insulation. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-321:3 (subsite)	Unplanned Release	100-IU-6	1.5 m (5 ft) diameter	Not Documented	The subsite consists of an area approximately 1.5 m (5 ft) in diameter of suspect friable asbestos insulation. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-321:4 (subsite)	Unplanned Release	100-IU-6	0.4 m x 2 m (1.5 ft x 6 ft)	Not Documented	The subsite consists of an area approximately 0.4 by 2 m (1.5 by 6 ft) of suspect friable asbestos insulation. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-322	Unplanned Release	100-IU-6	Not Documented	Not Documented	The site consists of the underlying soil and an 0.2 m (8 in.) diameter carbon steel pipe with a diamond plate cover. The pipe and cover are flush with the ground surface. The pipe also drains to the south under a rail spur. There is no process history associated with this site.	No Action	WSRF 2011-011	N/A	N/A	02-Nov-10 (Confirmatory Sampling)	N/A	N/A		Soil	Pipe Contents	N/A	N/A	N/A	N/A	N/A
													Aluminum	6900 L	4350 L	\	\	\	\	\
													Antimony*	0.39 UJ	1.1 J	\	\	\	\	\
													Arsenic*	2.2 N	4.9	\	\	\	\	\
													Barium*	77.5 JL	56.2 JL	\	\	\	\	\
													Beryllium*	0.12 B	0.068 B	\	\	\	\	\
													Boron*	1.0 U	1.5 B	\	\	\	\	\
													Cadmium*	0.10 B	0.25	\	\	\	\	\
													Calcium	3120 L	3999 L	\	\	\	\	\
													Chromium*	8.6	32.8	\	\	\	\	\
													Cobalt*	7	7.7	\	\	\	\	\
													Copper*	9.9	57.4	\	\	\	\	\
													Iron	20800 L	96400 L	\	\	\	\	\
													Lead*	4.1	72.2	\	\	\	\	\
													Magnesium	3890 L	2770 L	\	\	\	\	\
													Manganese*	338 L	556 L	\	\	\	\	\
													Mercury*	0.0057 U	0.037	\	\	\	\	\
													Molybdenum*	0.26 U	4.3	\	\	\	\	\
													Nickel*	8.8 L	35.4 L	\	\	\	\	\
													Potassium	1490	1180	\	\	\	\	\
													Selenium	0.88 UN	0.86 U	\	\	\	\	\
													Silicon	233 J	268 J	\	\	\	\	\
													Silver	0.16 U	0.21	\	\	\	\	\
													Sodium	138	1310	\	\	\	\	\
													Vanadium*	50.2 L	33.7 L	\	\	\	\	\
													Zinc*	42.8 L	62.9 L	\	\	\	\	\
													PCBs	U	U	\	\	\	\	\
													4,4'-DDE*	0.25 U	2.6 J	\	\	\	\	\
													Endosulfan Sulfate*	0.28 U	0.35 JX	\	\	\	\	\
													SVOAs	U	U	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the pesticides that were detected.							

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Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-323	Unplanned Release	100-IU-6	30 m x 30 m x 0.5 m (100 ft x 100 ft x 2 ft)	Not Documented	The site consists of the underlying soil and a bermed area with coal cinders and an apparent ditch running east and west on the north side within the area. The waste site measures approximately 30 by 30 m (100 by 100 ft) and is depressed approximately 0.5 m (2 ft) relative to the surrounding area. There is no process history associated with this site.	No Action	WSRF 2011-009	N/A	N/A	02-Nov-10 03-Nov-10 (Confirmatory Sampling)	N/A	N/A	Aluminum	13400	\	\	\	\	\	\
													Antimony	0.45 U	\	\	\	\	\	\
													Arsenic*	4.3	\	\	\	\	\	\
													Barium*	418 JM	\	\	\	\	\	\
													Beryllium*	0.68	\	\	\	\	\	\
													Boron*	34.0 J	\	\	\	\	\	\
													Cadmium*	0.14 BM	\	\	\	\	\	\
													Calcium	17400	\	\	\	\	\	\
													Chromium*	12.6 L	\	\	\	\	\	\
													Cobalt*	7.3	\	\	\	\	\	\
													Copper*	20.4 L	\	\	\	\	\	\
													Iron	19700 L	\	\	\	\	\	\
													Lead*	5.2	\	\	\	\	\	\
													Magnesium	6260 JL	\	\	\	\	\	\
													Manganese*	357 L	\	\	\	\	\	\
													Mercury*	0.018 BMN	\	\	\	\	\	\
													Molybdenum*	1.1 BJ	\	\	\	\	\	\
													Nickel*	14.1 L	\	\	\	\	\	\
													Potassium	2620	\	\	\	\	\	\
													Selenium*	2.2	\	\	\	\	\	\
													Silicon	1340 L	\	\	\	\	\	\
													Silver	0.19 U	\	\	\	\	\	\
													Sodium	331	\	\	\	\	\	\
													Vanadium*	44.0 L	\	\	\	\	\	\
													Zinc*	41.4 L	\	\	\	\	\	\
													TPH - Diesel Range*	50	\	\	\	\	\	\
													TPH - Motor Oil*	68	\	\	\	\	\	\
													Acenaphthene*	0.031 J	\	\	\	\	\	\
													Benzo(a)anthracene*	0.0046 J	\	\	\	\	\	\
													Benzo(a)pyrene*	0.018	\	\	\	\	\	\
													Benzo(b)fluoranthene*	0.05	\	\	\	\	\	\
													Benzo(k)fluoranthene*	0.0099 J	\	\	\	\	\	\
													Chrysene*	0.17	\	\	\	\	\	\
													Fluoranthene*	0.087 X	\	\	\	\	\	\
													Naphthalene*	0.12	\	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the PAHs that were detected.							
600-324	Burn Pit	100-IU-6	Not Documented	Not Documented	The site consists of the underlying soil, and a concrete pad with miscellaneous pipe and auto parts debris, with burnt wood and metal debris. The site may be associated with the Hanford Aggregate Pit 16 and 615 Hot Mix Plant.	Interim Closed Out	WSRF 2012-048	26-Apr-12	30-Apr-12	1-May-12	39 BCM	N/A	See WSRF 2012-048							
600-325:1 (subsite)	Burn Pit	100-IU-6	5 m (16 ft) diameter	Not Documented	The subsite consists of a 5 m (16 ft) diameter area of burned roofing material. There is no process history associated with this site.	Interim Closed Out	WSRF 2012-033	5-Jul-11	13-Jul-11	6-Dec-11	176 BCM	1	See WSRF 2012-033							
600-325:2 (subsite)	Burn Pit	100-IU-6	5 m x 20 m (16 ft x 65 ft)	Not Documented	The subsite consists of a 5 by 20 m (16 by 65 ft) area of burned roofing material. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	5-Jul-11	13-Jul-11	7-Dec-11	See 600-325:1	1	See WSRF 2012-033							
600-326:1 (subsite)	Unplanned Release	100-IU-6	2 m x 4 m (6 ft x 13 ft)	Not Documented	The subsite consists of a 2 by 4 m (6 by 13 ft) area of charcoal gray suspected insulating material. It has a sulfur smell. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-326:2 (subsite)	Unplanned Release	100-IU-6	6 m (20 ft) diameter	Not Documented	The subsite consists of a 6 m (20 ft) diameter area of unknown black porous material. There is no vegetation growing in the affected area. There is no process history associated with this site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-327	Process Unit/Plant	100-IU-6	6 m x 10 m (20 ft x 33 ft)	Not Documented	The site consists of a large depression filled with Russian thistle, a 2.5 cm (1-in.) water pipe stub located on the north side of the depression, and the underlying soil. There is no known process history associated with this waste site; however, it was believed that the area may have received waste liquids containing sodium dichromate in support of corrosion testing in the 145 Corrosion and Materials Experiment Building. Document #IN-133 indicates this area contained coal storage and five locomotives that support the 145 Building.	No Action	WSRF 2011-010	N/A	N/A	01-Nov-10 (Confirmatory Sampling)	N/A	N/A	Aluminum	11800 J	N/A	N/A	N/A	N/A	N/A	N/A
													Antimony	0.37 U						
													Arsenic*	4.8						
													Barium*	116						
													Beryllium*	0.16 B						
													Boron*	1.1 B						
													Cadmium*	0.12 B						
													Calcium	13800 J						
													Chromium*	16.4						
													Cobalt*	8.1						
													Copper*	15.5						
													Hexavalent Chromium	0.153 U						
													Iron	21600 J						
													Lead*	6.7						
													Magnesium	5740 J						
													Manganese*	342 J						
													Mercury*	0.0060 B						

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Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Molybdenum	0.25 U						
													Nickel*	15.9						
													Potassium	2060						
													Selenium	0.83 U						
													Silicon	337 J						
													Silver	0.15 U						
													Sodium	272						
													Vanadium*	44						
													Zinc*	46.5 J						
													Bromide	0.43 B						
													Chloride	2.1 U						
													Fluoride*	2.1 B						
													Nitrogen in Nitrate*	2.7 J						
													Nitrogen in Nitrite	0.36 UR						
													Nitrogen in Nitrate/Nitrite*	2.7						
													Orthophosphate	1.8 UR						
													Sulfate*	15.4						
													TPH - Diesel Range*	2.2 J						
													TPH - Diesel Range EXT*	3.0 J						
													Fluorene*	0.041 XJ						
													PCBs	U						
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the PAHs that were detected.							
600-328	Unplanned Release	100-IU-6	1 m x 2 m (3.3 ft x 6.6 ft)	Not Documented	The site consists of the underlying soil and scattered slag with a small stained soil area. The vegetation appears to be stressed. The lead may have been used for pouring joints in cast iron sewer systems.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-329	Unplanned Release	100-IU-6	1 m x 1 m (3.3 ft x 3.3 ft)	Not Documented	The site consists of the underlying soils and an unknown concrete structure near the Construction Shop of the Hanford Townsite operations, on the high water line of the river edge. Ground-penetrating radar located debris typical of demolition. There are several concentrations of anomalies in the area that have the characteristics of buried debris. There also are several linears in the area that may or may not be related to the structure. The abundance of shallow anomalies may be masking any deeper features in the area. The site appears to be related to the movement of water.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-330	Unplanned Release	100-IU-6	Not Documented	Not Documented	The site consists of the underlying soil at the historical location of a Hanford era gasoline service station (including any equipment, i.e., tanks or piping). The site was used for the dispensing of petroleum products for automotive use.	Rejected	WSRF 2010-021	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-331	Unplanned Release	100-IU-6	Not Documented	Not Documented	The site is the previous location of the lime sulfur barrel location (UPR-600-19). The site was remediated in 1997; however, sample data indicate that high levels of lead and arsenic remain in the soil column.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-332	Sanitary Sewer	100-IU-6	Not Documented	Not Documented	The site consists of the underlying soil, septic tank, associated piping, and drain field for a septic system. The septic system supported the Range House building at the firing range, which was located on the opposite side of the access road from the firing range.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-333	Process Unit/Plant	100-IU-6	4.9 m x 9.8 m x 3.7 m (16 ft x 32 ft x 12 ft)	Not Documented	The site consists of a below grade concrete structure with three vertical shafts open to the surface and the underlying soil. The concrete structure extends deeper than 3.7 m (12 ft) bgs, and is 9.8 m (32 ft) long and 4.9 m (16 ft) wide. A very large pipeline enters the east end of the structure. Because of safety issues, two of the three open shafts have been plugged with concrete debris, with one left open.	Rejected	WSRF 2011-008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-334:1 (subsite)	Process Unit/Plant	100-IU-6	Not Documented	1943-1944	This subsite consists of three areas. Area 1 is a cleared plot of land rectangular in shape where the 145 building complex was previously located. Area 2 is a 5 by 5 m (16 by 16 ft) depression that is 1.5 m (5 ft) deep with broken concrete near its edge upstream of the 145 building complex (EL-1616). Area 3 consists of three open-ended pipes (two vitreous and one cast iron) protruding horizontally from under the middle of the former building area on the river bank side of the 145 building complex.	No Action	WSRF 2011-002	N/A	N/A	28-Oct-10 (Confirmatory Sampling)	N/A	N/A	Aluminum	7070 J						
													Antimony	0.38 U						
													Arsenic*	4.2						
													Barium*	85.4						
													Beryllium*	0.15 B						
													Boron*	3.3						
													Cadmium*	0.4						
													Calcium	6560						
													Chromium*	11.8						
													Cobalt	5.8						
													Copper*	17.5						
													Hexavalent chromium	0.155 U						
													Iron	18500 L						
													Lead*	14/2						
													Magnesium	4580 JL						
													Manganese*	329 L						
													Mercury*	1.9						
													Molybdenum*	0.29 B						

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Nickel*	10.7						
													Potassium	2630						
													Selenium	0.85 U						
													Silicon	285 J						
													Silver*	0.22						
													Sodium	192						
													Vanadium*	43.2 L						
													Zinc*	73.0 J						
													Bromide	0.42 U						
													Chloride	45.3						
													Fluoride*	0.9 U						
													Nitrogen in Nitrate	259 JD						
													Nitrogen in Nitrite	0.36 UR						
													Nitrogen in Nitrate/Nitrite*	287 D						
													Orthophosphate	20 J						
													Sulfate	119						
													TPH - Diesel Range	7.9						
													TPH - Diesel Range EXT*	74						
													Benzo(a)anthracene*	0.032 J						
													Benzo(a)pyrene*	0.029 J						
													Benzo(b)fluoranthene*	0.039 JK						
													Benzo(ghi)perylene*	0.028 J						
													Benzo(k)fluoranthene*	0.017						
													Chrysene*	0.039						
													Fluoranthene*	0.058 J						
													Indeno(1,2,3-cd) pyrene*	0.034						
													Pyrene*	0.078						
													PCBs	U						
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the PAHs and SVOAs that were detected.							
600-334:2 (subsite)	Burn Pit	100-IU-6	4.6 m (15 ft) diameter	Not Documented	This subsite consists of a 4.6 m (15.1 ft) diameter burn area of unknown origin found off the northwest corner of the former CMX Building complex.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-335	Unplanned Release	100-IU-6	Not Documented	Not Documented	The site consists of the potential underground components of a service station, including storage tanks, associated piping, and contaminated soils that was identified in historical photo #P-8244. The photo also appears to show two gasoline pumps. The site was used for the dispensing of petroleum products for automotive use.	Rejected	WSRF 2010-022	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-341:1 (subsite)	Dumping Area	100-IU-2	Area 1 - 1 m (3 ft) diameter; Area 2 - 0.5 m (1.5 ft) diameter	Not Documented	The 600-341:1, Inter Areas Battery Remnant subsite contained two areas with scattered dry cell battery remnants and battery debris. There is no process history associated with the 600-341:1 subsite, although Area 1 may have been associated with a pre-Hanford farm. The results of verification sampling show that residual contaminant concentrations do not preclude any future site uses and allow for unrestricted use of shallow zone soils. The results also demonstrate that residual contaminant concentrations are protective of groundwater and the Columbia River.	Interim Closed Out	WSRF-2010-053	11-Feb-10	16-Feb-10	24-May-10	5 BCM	0.5 m	Aluminum	11400	\	\	\	\	\	\
													Antimony	0.614 UJ	\	\	\	\	\	\
													Arsenic*	3.3	\	\	\	\	\	\
													Barium*	97.2	\	\	\	\	\	\
													Beryllium*	0.449	\	\	\	\	\	\
													Boron*	2.97	\	\	\	\	\	\
													Cadmium*	1.86 J	\	\	\	\	\	\
													Calcium	4460	\	\	\	\	\	\
													Chromium*	15.8 J	\	\	\	\	\	\
													Cobalt*	8.1	\	\	\	\	\	\
													Copper*	17.6	\	\	\	\	\	\
													Hexavalent Chromium*	2.18 U	\	\	\	\	\	\
													Iron	26000	\	\	\	\	\	\
													Lead*	13.1	\	\	\	\	\	\
													Magnesium	4830	\	\	\	\	\	\
													Manganese*	563 J	\	\	\	\	\	\
													Mercury*	0.177 J	\	\	\	\	\	\
													Molybdenum*	0.472 B	\	\	\	\	\	\
													Nickel*	14.8	\	\	\	\	\	\
													Potassium	2430	\	\	\	\	\	\
													Selenium	0.307 U	\	\	\	\	\	\
													Silicon	802	\	\	\	\	\	\
													Silver	0.205 U	\	\	\	\	\	\
													Sodium	288	\	\	\	\	\	\
													Vanadium*	64.7	\	\	\	\	\	\
													Zinc*	317 J	\	\	\	\	\	\
													PCBs	U	\	\	\	\	\	\
													Pesticides	U	\	\	\	\	\	\
													TPH-diesel	3.46 U	\	\	\	\	\	\
													TPH-motor oil*	45.3 J	\	\	\	\	\	\
													SVOAs	U	\	\	\	\	\	\
													Benzo(a)anthracene*	0.00698	\	\	\	\	\	\
													Benzo(a)pyrene*	0.00707	\	\	\	\	\	\
													Benzo(b)fluoranthene*	0.0123	\	\	\	\	\	\

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Benzo(g,h,i)perylene*	0.00173 J	\	\	\	\	\	\
													Benzo(k)fluoranthene*	0.00585	\	\	\	\	\	\
													Chrysene*	0.0145	\	\	\	\	\	\
													Dibenz[a,h]anthracene*	0.00121 J	\	\	\	\	\	\
													Fluoranthene*	0.0545	\	\	\	\	\	\
													Phenanthrene*	0.00503	\	\	\	\	\	\
													Pyrene*	0.0131	\	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the PAHs that were detected.							
600-341:2 (subsite)	Dumping Area	100-IU-2	3 m (10 ft) diameter	Not Documented	The 600-341:2, Inter Battery Remnant Area #1B subsite contained two areas with scattered dry cell battery remnants and battery debris. Each area was located within a larger farmstead dump consisting of metal cans and glass. The results of verification sampling show that residual contaminant concentrations do not preclude any future uses and allow for unrestricted use of shallow zone soils. The results also demonstrate that residual contaminant concentrations are protective of groundwater and the Columbia River.	Interim Closed Out	WSRF-2010-066	26-Apr-10	26-Apr-10	27-Jul-10	22.9	0.8 m	Aluminum	10700	\	\	\	\	\	\
													Antimony*	0.520 J	\	\	\	\	\	\
													Arsenic*	3.06	\	\	\	\	\	\
													Barium*	137 J	\	\	\	\	\	\
													Beryllium*	0.316	\	\	\	\	\	\
													Boron*	2.61	\	\	\	\	\	\
													Cadmium*	0.233	\	\	\	\	\	\
													Calcium	3400	\	\	\	\	\	\
													Chromium*	15.9	\	\	\	\	\	\
													Cobalt*	6.9	\	\	\	\	\	\
													Copper*	15	\	\	\	\	\	\
													Iron	21100	\	\	\	\	\	\
													Lead*	9.82	\	\	\	\	\	\
													Magnesium	4140	\	\	\	\	\	\
													Manganese*	374	\	\	\	\	\	\
													Molybdenum*	0.544	\	\	\	\	\	\
													Nickel*	11.6	\	\	\	\	\	\
													Potassium	2320	\	\	\	\	\	\
													Selenium	0.264 U	\	\	\	\	\	\
													Silicon	1300 J	\	\	\	\	\	\
													Silver	0.176 U	\	\	\	\	\	\
													Sodium	187	\	\	\	\	\	\
													Vanadium*	48.1	\	\	\	\	\	\
													Zinc*	119	\	\	\	\	\	\
													TPH-diesel	3.31 U	\	\	\	\	\	\
													TPH-motor oil*	58.6 J	\	\	\	\	\	\
													Acenaphthene*	0.00768 J	\	\	\	\	\	\
													Benzo(a)anthracene*	0.00479 J	\	\	\	\	\	\
													Benzo(a)pyrene*	0.00545 J	\	\	\	\	\	\
													Benzo(b)fluoranthene*	0.00545 J	\	\	\	\	\	\
													Benzo(g,h,i)perylene*	0.00217 J	\	\	\	\	\	\
													Benzo(k)fluoranthene*	0.00215 J	\	\	\	\	\	\
													Chrysene*	0.00562 J	\	\	\	\	\	\
													Dibenz[a,h]anthracene*	0.00463 J	\	\	\	\	\	\
													Fluoranthene*	0.0132 J	\	\	\	\	\	\
													Indeno(1,2,3-cd) pyrene*	0.002 J	\	\	\	\	\	\
													Phenanthrene*	0.00305 J	\	\	\	\	\	\
													Pyrene*	0.00875 J	\	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. This list only includes the PAHs that were detected.							
600-342	Dumping Area	100-IU-2	20 m (66 ft) diameter	Not Documented	Consists of an area that contained discarded radiological protective clothing. The 600-342 waste site was identified during a December 10, 2008 orphan sites evaluation. During this orphan sites walkdown, coveralls were identified. Radiological control personnel were notified, a hand-held radiological survey was conducted at the site, and the clothing was disposed. Subsequently, radiological surveys had been conducted at the site to support interim close out. The surveys showed no evidence of radiological contamination at levels above site background.	Interim Closed Out	WSRF-2010-008	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-343	Dumping Area	100-IU-2	6 m x 6 m (20 ft x 20 ft)	Not Documented	The 600-343, Inter Area Burns Site #1, was an area consisting of residual ash from burned material and a trench containing dumped asphalt. The results of verification sampling show that residual contaminant concentrations do not preclude any future uses and allow for unrestricted use of shallow zone soils. The results also demonstrate that residual contaminant concentrations are protective for direct exposure, groundwater, and the Columbia River.	Interim Closed Out	WSRF-2010-052	9-Feb-10	9-Feb-10	24-May-10	191	1 m	Aluminum	6150	\	\	\	\	\	\
													Antimony	0.612 UJ	\	\	\	\	\	\
													Arsenic*	5.13	\	\	\	\	\	\
													Barium*	56.1	\	\	\	\	\	\
													Beryllium*	0.205	\	\	\	\	\	\
													Boron*	0.894 B	\	\	\	\	\	\
													Cadmium*	0.149 U	\	\	\	\	\	\
													Calcium	11800	\	\	\	\	\	\
													Chromium (total)*	7.01	\	\	\	\	\	\
													Cobalt*	9.84	\	\	\	\	\	\
													Copper*	16.3	\	\	\	\	\	\
													Iron	29500	\	\	\	\	\	\
													Lead*	4.26	\	\	\	\	\	\
													Magnesium	5710	\	\	\	\	\	\
													Manganese*	386	\	\	\	\	\	\

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Mercury*	0.0107 B	\	\	\	\	\	\
													Molybdenum*	0.402 B	\	\	\	\	\	\
													Nickel*	8.17	\	\	\	\	\	\
													Potassium	1110	\	\	\	\	\	\
													Selenium	0.306 U	\	\	\	\	\	\
													Silicon	782 J	\	\	\	\	\	\
													Silver	0.204 U	\	\	\	\	\	\
													Sodium	428	\	\	\	\	\	\
													Vanadium*	82.3	\	\	\	\	\	\
													Zinc*	53.5	\	\	\	\	\	\
													TPH-diesel	3.39 U	\	\	\	\	\	\
													TPH-motor oil*	41.9	\	\	\	\	\	\
													SVOAs	U	\	\	\	\	\	\
													Acenaphthene*	0.0105 J	\	\	\	\	\	\
													Benzo(a)anthracene*	0.00224 J	\	\	\	\	\	\
													Benzo(a)pyrene*	0.00179 J	\	\	\	\	\	\
													Benzo(b)fluoranthene*	0.00386	\	\	\	\	\	\
													Benzo(g,h,i)perylene*	0.00201 J	\	\	\	\	\	\
													Benzo(k)fluoranthene*	0.00194 J	\	\	\	\	\	\
													Chrysene*	0.000878 J	\	\	\	\	\	\
													Fluoranthene*	0.0189	\	\	\	\	\	\
													Indeno(1,2,3-cd) pyrene*	0.0157	\	\	\	\	\	\
													Phenanthrene*	0.0217	\	\	\	\	\	\
													Pyrene*	0.00148 J	\	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the PAHs that were detected.							

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-344	Unplanned Release	100-IU-2	~3.4 m (11 ft) across	Not Documented	The 600-344, Inter Areas Stain Site #1, was an area stained with pre-Hanford metal container lids thought to have been associated with a pre-Hanford farmstead. There is no process history associated with the 600-344 waste site. The results of verification sampling show that all residual contaminant concentrations do not preclude any future uses and allow for unrestricted use of shallow zone soils.	Interim Closed Out	WSRF-2010-067	26-Apr-10	26-Apr-10	27-Jul-10	112	1 m	Aluminum	7680	\	\	\	\	\	\
													Antimony*	0.400 BJ	\	\	\	\	\	\
													Arsenic*	3.05	\	\	\	\	\	\
													Barium*	62.2	\	\	\	\	\	\
													Beryllium*	0.228	\	\	\	\	\	\
													Boron*	1.85	\	\	\	\	\	\
													Cadmium*	0.0989 B	\	\	\	\	\	\
													Calcium	4640	\	\	\	\	\	\
													Chromium (total)*	12.7	\	\	\	\	\	\
													Cobalt*	5.41	\	\	\	\	\	\
													Copper*	9.31	\	\	\	\	\	\
													Iron	17800	\	\	\	\	\	\
													Lead*	6.41	\	\	\	\	\	\
													Magnesium	3570	\	\	\	\	\	\
													Manganese*	262	\	\	\	\	\	\
													Molybdenum*	0.350 B	\	\	\	\	\	\
													Nickel*	10.2	\	\	\	\	\	\
													Potassium	1420	\	\	\	\	\	\
													Selenium	0.25 U	\	\	\	\	\	\
													Silicon	491 J	\	\	\	\	\	\
													Silver	0.167 U	\	\	\	\	\	\
													Sodium	157	\	\	\	\	\	\
													Vanadium*	43.7	\	\	\	\	\	\
													Zinc*	39	\	\	\	\	\	\
													TPH-diesel	3.27 U	\	\	\	\	\	\
													TPH-motor oil*	37.3 J	\	\	\	\	\	\
													Pesticides	U	\	\	\	\	\	\
													Acenaphthene*	0.0177	\	\	\	\	\	\
													Anthracene*	0.00129 J	\	\	\	\	\	\
													Benzo(a)anthracene*	0.0142	\	\	\	\	\	\
													Benzo(a)pyrene*	0.0101	\	\	\	\	\	\
													Benzo(b)fluoranthene*	0.00798	\	\	\	\	\	\
													Benzo(g,h,i)perylene*	0.00565	\	\	\	\	\	\
													Benzo(k)fluoranthene*	0.00371	\	\	\	\	\	\
													Chrysene*	0.00908	\	\	\	\	\	\
													Fluoranthene*	0.0255	\	\	\	\	\	\
													Indeno(1,2,3-cd) pyrene*	0.00487	\	\	\	\	\	\
													Phenanthrene*	0.0182	\	\	\	\	\	\
													Pyrene*	0.0279	\	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. This list only includes the PAHs that were detected.							
600-345	Unplanned Release	100-IU-2	4 m x 5 m (12 ft x 5 ft)	Not Documented	The 600-345, 100-BC Vicinity Oil Stain and Filter Area was a small area stained with oil filters, where petroleum liquid is suspected to have been released to the ground during an oil change or emptying of a container. The results of verification sampling show that residual contaminant concentrations do not preclude any future uses and allow for unrestricted use of shallow zone soils.	Interim Closed Out	WSRF-2010-068	10-Feb-10	6-Aug-10	24-May-10 06-Aug-10	11.4	46 cm (18 in.)	Aluminum	12200	\	\	\	\	\	\
													Antimony	0.537 UJ	\	\	\	\	\	\
													Arsenic*	3.06	\	\	\	\	\	\
													Barium*	98.4	\	\	\	\	\	\
													Beryllium*	0.346	\	\	\	\	\	\
													Boron*	1.96	\	\	\	\	\	\
													Cadmium*	0.0697 B	\	\	\	\	\	\
													Calcium	3960	\	\	\	\	\	\
													Chromium (total)*	18.1	\	\	\	\	\	\
													Cobalt*	8.01	\	\	\	\	\	\
													Copper*	15.6	\	\	\	\	\	\
													Hexavalent Chromium	0.21 U	\	\	\	\	\	\
													Iron	25300	\	\	\	\	\	\
													Lead*	4.86	\	\	\	\	\	\
													Magnesium	4580	\	\	\	\	\	\
													Manganese*	417	\	\	\	\	\	\
													Mercury*	0.0137 B	\	\	\	\	\	\
													Molybdenum*	0.328 B	\	\	\	\	\	\
													Nickel*	13	\	\	\	\	\	\
													Potassium	1940	\	\	\	\	\	\
													Selenium	0.269 U	\	\	\	\	\	\
													Silicon	952	\	\	\	\	\	\
													Silver	0.179 U	\	\	\	\	\	\
													Sodium	231	\	\	\	\	\	\
													Vanadium*	67 J	\	\	\	\	\	\
													Zinc*	44	\	\	\	\	\	\
													TPH-diesel	3.59 U	\	\	\	\	\	\
													TPH-motor oil*	156	\	\	\	\	\	\
													Acenaphthene*	0.00148 J	\	\	\	\	\	\
													Chrysene*	0.00104 J	\	\	\	\	\	\
													Fluoranthene*	0.00202 J	\	\	\	\	\	\
													Indeno(1,2,3-cd) pyrene*	0.00597	\	\	\	\	\	\

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
													Phenanthrene*	0.00485	\	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the PAHs that were detected.							

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Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-346	Unplanned Release	100-IU-2	5 m x 30 m (16 ft x 100 ft)	Not Documented	The 600-346, 100-BC Vicinity Ash and Debris Area was six small fly ash dump areas with metal debris. All of the dump areas were within a 5 by 30 m (16 by 100 ft) area and were unvegetated. The results of verification sampling show that residual contaminant concentrations do not preclude any future uses and allow for unrestricted use of shallow zone soils. The results also demonstrate that residual contaminant concentrations are protective of groundwater and the Columbia River.	Interim Closed Out	WSRF-2010-055	11-Feb-10	11-Feb-10	24-May-10	40	46 cm (18 in.)	Aluminum	11600	\	\	\	\	\	\
													Antimony	0.614 UJ	\	\	\	\	\	\
													Arsenic*	3.33	\	2.92	\	\	\	\
													Barium*	91.5	\	86.2	\	\	\	\
													Beryllium*	0.373	\	0.353	\	\	\	\
													Boron*	3.05	\	2.56	\	\	\	\
													Cadmium*	0.189 U	\	0.0783	\	\	\	\
													Calcium	4180	\	\	\	\	\	\
													Chromium*	14.8	\	13.7	\	\	\	\
													Cobalt*	8.71	\	8.21	\	\	\	\
													Copper*	17.3	\	15.4	\	\	\	\
													Hexavalent Chromium	4.09 U	\	\	\	\	\	\
													Iron	24800	\	\	\	\	\	\
													Lead*	6.98	\	5.05	\	\	\	\
													Magnesium	4630 J	\	\	\	\	\	\
													Manganese*	424	\	398	\	\	\	\
													Mercury	0.0290 U	\	\	\	\	\	\
													Molybdenum*	0.493 B	\	0.442	\	\	\	\
													Nickel*	13.7	\	11.9	\	\	\	\
													Potassium	2180	\	\	\	\	\	\
													Selenium	0.307 U	\	\	\	\	\	\
													Silicon	1370	\	\	\	\	\	\
													Silver	0.205 U	\	\	\	\	\	\
													Sodium	243	\	\	\	\	\	\
													Vanadium*	58.1	\	54.1	\	\	\	\
													Zinc*	44.4	\	42.4	\	\	\	\
													TPH-diesel*	22.5	\	14.9	\	\	\	\
													TPH-motor oil*	118 J	\	24.8	\	\	\	\
													PCBs	U	\	\	\	\	\	\
													Acenaphthene*	0.187 J	\	0.04	\	\	\	\
													Anthracene*	0.00229 J	\	\	\	\	\	\
													Benzo(a)anthracene*	0.00637	\	\	\	\	\	\
													Benzo(a)pyrene*	0.00472	\	\	\	\	\	\
													Benzo(b)fluoranthene*	0.0102	\	\	\	\	\	\
													Benzo(g,h,i)perylene*	0.00351	\	\	\	\	\	\
													Benzo(k)fluoranthene*	0.00166 J	\	\	\	\	\	\
													Chrysene*	0.167 J	\	0.054	\	\	\	\
													Dibenz[a,h]anthracene*	0.0175	\	\	\	\	\	\
													Fluoranthene*	0.127 J	\	0.041	\	\	\	\
													Fluorene*	0.0548 J	\	\	\	\	\	\
													Indeno(1,2,3-cd) pyrene*	0.015	\	\	\	\	\	\
													Naphthalene*	0.0967 J	\	\	\	\	\	\
													Phenanthrene*	0.0595 J	\	0.017	\	\	\	\
													Pyrene*	0.016	\	\	\	\	\	\
													Endosulfan I*	0.00332 JD	\	\	\	\	\	\
													2-Methylnaphthalene*	0.339 J	\	0.345	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. This list only includes the PAHs, SVOAs, and pesticides that were detected.							
600-349	Dumping Area	100-IU-6	Not Documented	Not Documented	The site consists of potential unexploded ordnance in an area southwest of the 600-149 Small Arms Range, extending from the perimeter of 600-149 as far as a fired rifle grenade could travel. The area with the highest potential to contain munitions and explosives of concern includes a portion of Gable Mountain south of Pride Canal. The site operated from the mid-1940s through the 1950s as a practice range for handguns, rifles, shotguns, machine guns, hand grenades, smoke bombs, and other small arms and incendiary devices.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-350	Experiment/ Test Site	100-IU-6	Not Documented	1976-1981	The site consisted of two separate fenced areas containing linear soil mounds. The site was constructed to perform rain harvesting experiments. Asphalt debris was removed and transported to ERDF for disposal. The mounds were flattened and fencing removed for aesthetic purposes. The results of verification sampling show that residual contaminant concentrations do not preclude any future uses and allow for unrestricted use of shallow zone soils. The results also demonstrate that residual contaminant concentrations are protective of groundwater and the Columbia River.	Interim Closed Out	WSRC 2011-073	14-Mar-11	4-Apr-11	2-Jun-11	2,202	0	Anthracene*	0.0031 JX						
													Benzo(a)anthracene*	0.023						
													Benzo(a)pyrene*	0.021						
													Benzo(b)fluoranthene*	0.016						
													Benzo(ghi)perylene*	0.020 J						
													Benzo(k)fluoranthene*	0.0066 J						
													Chrysene*	0.020 J						
													Fluoranthene*	0.052						
													Indeno(1,2,3-cd)pyrene*	0.017 J						
													Phenanthrene*	0.024 J						
													Pyrene*	0.063						
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. This list only includes the PAHs that were detected.							
600-356	Dumping Area	100-IU-6	18 m x 11 m (60 ft x 35 ft)	Not Documented	The site consists of two proximate areas of suspect tar-stained soils located near Susie Junction.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-358	Dumping Area	100-IU-6	Not Documented	Not Documented	The site consists of scattered CERCLA-regulated debris identified during the unexploded ordnance characterization and clearance of the 600-149:1 waste site. The debris was described as being a lead battery, a lead chunk, a burn area, and a suspect drum or pipe. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-368	Unplanned Release	100-IU-6	Not Documented	1943	The site consists of a 15 m^2 (157 ft^2) area covered with green granules. The feature is approximately 130 m (427 ft) west of the Leazer Spur. In 1944, temporary construction buildings housed there included various warehouse, the crane operators' loft, riggers' loft, and an ice storage pit. The Salvage/Scrap Yard was a kilometer south of the warehouses and operated as late as December 1948. It is not known what, if any, relationship existed between the two complexes.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-369:1 (subsite)	Dumping Area	100-IU-6	Not Documented	Not Documented	The subsite consists of a 6 m (20 ft) diameter area burn pit. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-369:2 (subsite)	Dumping Area	100-IU-6	Not Documented	Not Documented	The subsite consists of a 3 m (10 ft) diameter area devoid of vegetation. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-369:3 (subsite)	Dumping Area	100-IU-6	Not Documented	Not Documented	The subsite consists of a large area with multiple spots of stressed vegetation and bare earth. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-369:4 (subsite)	Dumping Area	100-IU-6	Not Documented	Not Documented	The subsite consists of a 14 m (46 ft) area with multiple spots of bare ground. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-369:5 (subsite)	Dumping Area	100-IU-6	Not Documented	Not Documented	The subsite consists of a 50 m (164 ft) diameter area with multiple spots of bare ground. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-369:6 (subsite)	Dumping Area	100-IU-6	Not Documented	Not Documented	The subsite consists of a 11 m (36 ft) area of crusted soil with no vegetation visible. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-369:7 (subsite)	Dumping Area	100-IU-6	Not Documented	Not Documented	The subsite consists of a 2 m (7 ft) diameter area of red crusted soil devoid of vegetation. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-369:8 (subsite)	Dumping Area	100-IU-6	Not Documented	Not Documented	The subsite consists of a 10 m (33 ft) diameter area of stressed vegetation and 6 drum lids. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-370	Dumping Area	100-IU-6	Not Documented	Not Documented	The site consists of a large disturbed area with surface debris consisting of multiple burn sites with burn remnants, transite, insulators, wood, and concrete. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-371	Dumping Area	100-IU-6	Not Documented	Not Documented	The site consists of multiple locations having a white chalky substance that resembles either grout or bentonite. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-372:1 (subsite)	Unplanned Release	100-IU-6	Not Documented	Not Documented	The subsite consists of a 3 m^2 (4 yd^2) area that has a discarded oil filter and is devoid of vegetation. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-372:2 (subsite)	Unplanned Release	100-IU-6	Not Documented	Not Documented	The subsite consists of a 13 m^2 (15 yd^2) area that has a discarded oil filter and is devoid of vegetation. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-373	Dumping Area	100-IU-6	Not Documented	Not Documented	The site consists of a 28 m^2 (303 ft^2) area devoid of vegetation and covered by a white stain and crusted soil/grass debris. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
600-374	Dumping Area	100-IU-6	Not Documented	Not Documented	The site consists of an empty 55-gal drum (crushed) surrounded by a small area devoid of vegetation. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-375:1 (subsite)	Dumping Area	100-IU-6	Not Documented	Not Documented	The subsite consists of debris from four dry cell batteries in a 3 m^2 (33 ft^2) area. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-375:2 (subsite)	Dumping Area	100-IU-6	Not Documented	Not Documented	The subsite consists of a 1 m (3 ft) diameter stained area from dry cell batteries. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-375:3 (subsite)	Dumping Area	100-IU-6	Not Documented	Not Documented	The subsite consists of a 390 m^2 (0.1-acre) area that has scattered battery debris and stained soils within a pre-Hanford homestead. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-375:4 (subsite)	Dumping Area	100-IU-6	Not Documented	Not Documented	The subsite consists of debris from dry cell batteries in two locations with stained soils. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-375:5 (subsite)	Dumping Area	100-IU-6	Not Documented	Not Documented	The subsite consists of a small area with battery debris and stained soil. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-376:1 (subsite)	Unplanned Release	100-IU-6	Not Documented	Not Documented	The subsite consists of two stained soil areas adjacent to the railroad tracks leading to the 100-H Area. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-376:2 (subsite)	Unplanned Release	100-IU-6	Not Documented	Not Documented	The subsite consists of two patches of bare ground covered with debris including black material, a glass jar (probable food container) with unknown material, and dried yellow material. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-377	Unplanned Release	100-IU-6	Not Documented	Not Documented	The site consists of a 3 m^2 (32 ft^2) area devoid of vegetation and containing multiple filters. This is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-378	Storage Tank	100-IU-6	Not Documented	1945	The site is the historical location of a 379 L (100 gal) underground storage tank used to store fuel for the 506 telephone exchange emergency generator building.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-379	Dumping Area	100-IU-6	Not Documented	Not Documented	The site consists of a burn area with visible remnants. There is no process history associated with the site.	Accepted	TPA-MP-14 WIDS Discovery Site Evaluation Checklist approved by the regulators.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
628-1	Burn Pit	100-IU-2	70.10 m x 39.62 m (230 ft x 130 ft)	Not Documented	It is suspected but not documented that the pit was used to dispose of hazardous chemicals or staged fire fighting training fires. A 1948 aerial photograph indicates that the area was used as a parking area for the demolished American Pipe Company building. Although the site was called a burn pit, no depression or pit exists. The burn site was apparently on a layer of soil on top of the demolished building's foundation. It was assumed that the burning activities occurred as the result of burning debris while the buildings were being demolished.	Interim Closed Out	WSRF 2003-46	Apr-03	N/A	12-May-03	N/A	0.37	Arsenic *	3	\	\	\	\	\	\
													Barium *	83	\	\	\	\	\	\
													Cadmium	0.04 U	\	\	\	\	\	\
													Chromium *	13.6	\	\	\	\	\	\
													Cyanide	0.46 U	\	\	\	\	\	\
													Lead *	5.1	\	\	\	\	\	\
													Mercury	0.02 U	\	\	\	\	\	\
													Selenium	0.45 U	\	\	\	\	\	\
													Silver	0.13 U	\	\	\	\	\	\
													Sulfate	3.3	\	\	\	\	\	\
													Sulfide	42.7 U	\	\	\	\	\	\
													TPH	9.4	\	\	\	\	\	\
													Asbestos	ND	\	\	\	\	\	\
													PCBs	U	\	\	\	\	\	\
													Pesticides	U	\	\	\	\	\	\
													Bis(2-ethylhexyl)phthalate	0.054 J	\	\	\	\	\	\
													Herbicides	U	\	\	\	\	\	\
													*The analytes represent those contaminants detected by laboratory analysis in verification sampling and are subsequently considered as COPCs. The list only includes the SVOAs that were detected.							
JA JONES 1	Dumping Area	100-IU-6	30.48 m x 15.24 m (100 ft x 50 ft)	1975-1979	The site originally consisted of a trench, located on the west side of a depression and used by the JA Jones Company for the disposal of miscellaneous debris, construction waste, and paint products. An interview with an employee revealed that in 1977, 7 to 10 pickup truckloads of overstocked paint and solvents were disposed in this pit.	Interim Closed Out	CVP-2001-00019	8-Jan-01	6-Mar-01	Apr-01	12,700	3.4	Barium	101	\	83	\	\	81	78.4
													Cadmium	0.5	\	0.5	\	\	0.47	0.47

Table E1. Waste Site Description and Status Table

Site Code	Site Type	Operable Unit	Site Dimensions	Dates of Operation	Site History	Classification / Reclassification	Decision/Close-Out Report	Remedial Action Start Date	Remedial Action End Date	Verification Sampling Date	Contaminated Waste Volume to ERDF (metric tons)	Maximum Depth of Remedial Action (m)	COC/COPC	Excavation					Overburden/Stockpile or Staging Pile	
														Max Concentration (pCi/g, mg/kg)		95% UCL (pCi/g, mg/kg)		Focused or Discrete Max (pCi/g, mg/kg)	Max Concentration (pCi/g, mg/kg)	95% UCL (pCi/g, mg/kg)
														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				
					The containers were opened and the contents emptied onto the ground in the pit. The empty containers were then thrown into the pit.								Total Chromium	26.1	\	15.5	\	\	10	9.73
													Lead	76.7	\	31.2	\	\	17	14.1
UPR-600-11	Unplanned Release	100-IU-6	Not Documented	1980	The site was an area within the JA Jones Pit 1 where contaminated material was mistakenly disposed. The contaminated material was removed in 1980 and the area released from radiological control. There is no visual evidence of this occurrence. UPR-600-11 was associated with the 305-B Berm (WIDS Site 300-29) and the JA Jones Pit 1 (WIDS Site JA Jones 1).	Closed Out	WSRF 98-215	See JA Jones 1 Site. This site was remediated along with JA Jones 1 and the sample results are the same.												
UPR-600-16	Unplanned Release	100-IU-6	54.86 m x 30.48 m (180 ft x 100 ft)	1951	In November 1951, a criticality excursion resulted in extensive plutonium contamination inside the 120 Building. On December 4, 1951, decontamination was in the final stages when a spontaneous ignition of decontamination materials caused a fire that gutted the entire building. Plutonium contamination was spread by the fire and also washed into the soil by the water used to extinguish the fire. The area was stabilized with clean soil and gravel to prevent wind from spreading the contamination further. The 120 Building was sealed and the area was enclosed within a locked fence and posted as a radiation area. In 1974, a cleanup project was initiated. The 120 Building and its crib were removed and the area was released from radiological posting. The area within the fence was cleared of the rock and sand overburden that had been placed over the contamination when the site was abandoned. Contamination was identified in the overburden, but did not extend beyond the 120 Building foundation area. Confirmatory sampling was performed in 2004.	Interim Closed Out	WSRF 2008-045	N/A	N/A	Apr-04 and May-04 (Confirmatory sampling)	None	1.22 (sampling depth)	See 600-111 Site							
UPR-600-18	Unplanned Release	100-IU-6	Not Documented	1987	The site is an area where petroleum products leaked to the soil from a fuel delivery truck accident. Six soil samples were taken from the road shoulder by Industrial Hygiene and Hazardous Material personnel. Test results on the soils samples taken at the scene of the fuel spill were negative for toxicity, ignitability, and the presence of heavy metals.	Rejected	WSRF 97-036	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
UPR-600-19	Unplanned Release	100-IU-6	Not Documented	Not Documented	The site is an unplanned release. An old wooden barrel, which pre-dated Manhattan Engineering District operations, deteriorated and collapsed, spilling the contents (about 45 kg [100 lb] of powdery lime sulfur) onto the ground. All the lime sulfur, the barrel, and the soil immediately underlying these materials were removed in December 1997 and placed in a storage container. The container was placed at a hazardous waste staging area for eventual offsite disposal at a permitted facility. No evidence exists that hazardous, dangerous, or radioactive waste was disposed at this site.	Rejected	WSRF 97-037	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note:
a. Shallow zone = soil above 4.6 m (15 ft) above ground surface
b. Deep zone = soil below 4.6 m (15 ft) above ground surface
/ = No data collected

4,4'-DDD = dichlorodiphenyldichloroethane
4,4'-DDE = dichlorodiphenyldichloroethene
4,4'-DDT = dichlorodiphenyltrichoroethene
B = For inorganics - The analyte was detected at a value less than the contract-required detection limit but greater than or equal to the minimum detection limit
B - For organics - The analyte was detected in the method blank
BCM = bank cubic meters
bgs = below ground surface
BHC = benzenehexachloride
BHI = Bechtel Hanford, Inc.
C = The analyte was detected in both the sample and the associated blank, and the concentration was ≤5X the blank concentration.
CERCLA = Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (also known as Superfund)
COC = Contaminant of Concern
COPC = Contaminant of Potential Concern
CVP = Cleanup Verification Package
CY = Calendar Year
D=Diluted
D&D = Deactivation and Decommissioning
dpm = disintegrations per minute
EP = Extraction Procedure
EPA = Environmental Protection Agency
ERC = Environmental Restoration Contractor (Bechtel Hanford, Inc.)
ERDF = Environmental Restoration Disposal Facility
EXT = extended to C36
FSB = Fuel Storage Basin
ICP = inductively coupled plasma
ISS = Interim Safe Storage

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														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]			
100-F Area Waste Sites																				

J = Estimated Value
MTCA = Model Toxics Control Act
N/A = Not applicable
ND = Not detected
PAH = polynuclear aromatic hydrocarbon
PCB = polychlorinated biphenyl
PNNL = Pacific Northwest National Laboratory
ppm = parts per million
PQL = practical quantification limit
PVC = polyvinyl chloride
RAG = Remedial Action Goal
RAO = Remedial Action Objective
RARA = radiation area remedial action
RCRA = *Resource Conservation and Recovery Act of 1976*
RESRAD = RESidual RADioactivity
SAP = Sampling and Analysis Plan
S&M = Surveillance and Maintenance
SVOA = Semi-Volatile Organic Analysis
TPH = Total Petroleum Hydrocarbons
VOA = Volatile Organic Analysis
U = Undetected
UCL = Upper Confidence Limit
UST = underground storage tank
WIDS = Waste Information Data System