Appendix E

Nature and Extent Summaries and Waste Site Table

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Table E1. Waste Site Description and History with Associated Interim Action Closeout Data

Site Code	Site Type	Operable Unit	Site Dimensions (m)	Dates of Operation	Site History	Class Status	Decision/ Closeout 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	Maximum Concentration (pCi/g, mg/kg) Shallow[a]	Maximum Concentration (pCi/g, mg/kg) Deep[b]	95% UCL (pCi/g, mg/kg) Shallow[a]	95% UCL (pCi/g, mg/kg) Deep[b]
100-D-1	Process Sewer	100-DR-1	1.1 x 0.9 x 0.9	Not Documented	Waste site is a junction box and associated storm drain pipeline located between the 116-D-5 and 116-DR-5 outfall structures on the northern side of the patrol road. The junction box collected runoff and spillage from a culvert under Patrol Road and the Patrol Road ditch, and discharged the liquid to a drainage pipe that led to the river.	Interim Closed	WSRF/RSVP2010-054	Apr. 15, 2009 and Jan. 5, 2010	Apr. 15, 2009 and Jan. 11, 2010	May. 20, 2010	495 BCM	Not Reported	Cesium-137	0.0787 J	0.016	/	/
													Arsenic	2.5	2	/	/
													Barium	93.4 L	67.4	/	/
													Beryllium	0.31	0.2	/	/
													Chromium	12.4 L	10	/	/
													Cobalt	11.1 L	8.7	/	/
													Copper	23.2	20.2	/	/
													Lead	6.1	3.9	/	/
													Manganese	437 L	318	/	/
													Nickel	13.4 L	11.5	/	/
													Vanadium	81.2	64.7	/	/
													Zinc	46.9 L	43.6	/	/
													TPH - diesel range	23	14	/	/
													TPH - motor oil	78	81	/	/
													Boron	2.1	/	/	/
													Dimethyl phthalate	0.042	/	/	/
													Hexavalent Chromium	0.417	/	/	/
													Mercury	0.0073	/	/	/
													Molybdenum	0.35	/	/	/
													Pyrene	0.017	/	/	/
100-D-10	Depression/Pit (nonspecific)	100-DR-1	251.43 m^2	Not Documented	This site is a storm drain outfall. The site received non-dangerous and nonradioactive stormwater runoff from the 190-DR Tank Pit.	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
100-D-100	Unplanned Release	100-DR-2	319 m^2	Not Documented	This site is contaminated soil near the former sodium dichromate acid railcar and truck unloading station (100-D-12). The waste consists of hexavalent-contaminated soil. This site is currently being remediated and the source of hexavalent chromium groundwater contamination.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-101	Sump	100-DR-1	2.7 x 11 Each (Sulfuric Tanks) 2.1 x 3.9 x 2.5 (Acid Neutralization Pit structure)	before 1952	The site consists of four chemical storage tanks, an acid neutralization pit/sump, a sodium silicate sump, two sets of pumps, and a car spot. All located to the west of the 108-D building. Two chemicals were stored near 108-D, sulfuric acid and sodium silicate, which each had its own set of	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-102	Unplanned Release	100-DR-1	Not Documented	Not Documented	Suspect effluent leak adjacent to the 107-DR basin, visible in an 1962 aerial photograph.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-103	French Drain	100-DR-1	Not Documented	Not Documented	Suspected trench and french drain, visible in a December 1949 aerial photograph running south from the 116-D-8 Cask Pad	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-104	Unplanned Release	100-DR-1	910m^2	Not Documented	The site consists of stained soils near the former external sodium dichromate storage tank and acid french drain outside of the 185-D facility.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-105	Pipeline	100-DR-1	822 linear m	Not Documented	The site consists of pipeline segments in 100-D/DR Area that were discovered during remediation of other waste sites and were not associated with an existing waste site.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-105	Product Piping	100-DR-1	822m^2	Not Documented	The site consists of 17 pipeline segments. The pipelines were discovered during remediation of other waste sites and are located throughout the study area.	Accepted	Not Documented	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Table E1. Waste Site Description and History with Associated Interim Action Closeout Data

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100-D-106	Sanitary Sewer	100-DR-2	Not Documented	Not Documented	This site is made up of the 1607-D1 sanitary sewer pipelines. It include a french drain.	Accepted	Not Documented	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-107	Unplanned Release	100-DR-1	70 X 35	Not Documented	This site consists of the soil beneath and surrounding the demolished 1713-DA Essential Material Warehouse. The warehouse was a wood frame building used for material storage (e.g. [illegible]	Accepted	Not Documented	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-11	Unplanned Release	100-DR-2	16,266.31 m^2	1950	This site is suspected of being a temporary garage and gasoline dispensing station. because the site cannot be located, potential USTs cannot be verified, and no releases have been documented, this site is rejected as a waste 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
100-D-12	Pump Station	100-DR-2	4.10 x 3.50, 0.91 x 6	Not Documented	Received sodium dichromate and sulfuric acid solutions in water from flushing and draining hoses and pipelines connected to railcars and trucks for unloading.	Interim Closed	WSRF 2000-105 CVP-2000-00016	11/8/1999	4/19/2000	5/1/2000	34.5	2.4	Hexavalent Chromium	0.56 U	/	0.56[c]	/
100-D-13	Septic Tank	100-DR-2	7.9 x 3.7 x 7.3, 7.7 x 3.6, 60 x 45	1947-1949	Septic system installed for use during construction of the 105-DR Reactor. consisted of a partitioned tank, a chlorinated house, a dosing tank, a filter bed, and associated piping.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-14	Septic Tank	100-DR-2	3.8 x 2.1 x 91.6	Not Documented	This concrete tank with drain field received sanitary sewage from the 105-DR Reactor construction badge house. The site appears as a vegetation covered field. A small depression may indicate the presence of the tank. A 10 cm (4 in.) cement pipe is likely to be a vent pipe to the drain field. The site is adjacent to a small soil pile.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-15	Dumping Area	100-DR-2	16,266.3 m^2	Not Documented	Received debris and miscellaneous waste described as nonradioactive and nonhazardous, including paint cans, solvent cans, and construction materials. Waste material has been dumped at two locations in a large borrow pit southeast of the 100-DR Reactor Facilities (Gravel Pit No. 21).	Interim Closed	WSRF/RSVP-2009-066	Oct. 6, 2008	Dec. 1, 2008	Sept. 2009	9,198 BCM from Northern area 4,003 BCM from the Southern area	Northern location was excavated between 2 m and 4 m Southern location was excavated 3.5 m below grade		North Excavation Maximum	North Excavation 95% UCL	South Excavation Maximum	South Excavation 95% UCL
													Arsenic	4.18	3.19	5.74	4.01
													Barium	70.6	64.4	115	86
													Beryllium	0.218	0.192	0.372	0.273
													Boron	2.4	1.68	3.33	1.93
													Cadmium	0.081 (B)	0.065	1.99	0.54
													Chromium Total	12.5	11.7	20.4	14.4
													Cobalt	8.31	6.79	8.97	7.97
													Copper	13.5	12.3	39.2	20
													Hexavalent Chromium	0.13	0.13	0.18	0.18
													Lead	5.56	4.65	17.2	7.1
													Manganese	309	279	368	328
													Mercury	0.0789	0.028	0.0681	0.0681
													Molybdenum	0.453 (B)	0.384	0.984 (B)	0.536
													Nickel	10.9	10.4	18.5	13.7
													Selenium	/	/	0.477	0.477
													Vanadium	73.4	54.9	76	61.4
													Zinc	49.6	40	234	88
													TPH - motor oil	11.5 (J)	7.23	82.3	82.3
													Aroclor-1254	0.00737	0.00737	/	/
													Aroclor-1260	0.00854	0.00854	/	/
													Dichlorodiphenyl dichloro ethane	/	/	0.00362	0.00362
													Dichlorodiphenyl dichloro ethylene	/	/	0.00569	0.00569
100-D-17	Burn Pit	100-DR-2	10,837.90 m^2	Not Documented	This site is a burn pit.	Rejected	WSRF 97-005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-18	Trench	100-DR-1	604.02 m^2	1953	Received sludge and effluent containing radioactive and hazardous materials from the 116-D-7 (107-	Interim Closed	WSRF 2000-040 CVP-2000-00001	Sept. 8, 1997	Dec. 3,1998	Sept. 13, 1999	8,702	6.6	Americium-241	/	0.54 U	/	0.49
													Cobalt-60	/	1.16	/	1.06
													Cesium-137	/	18	/	17.7

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					D/DR) Retention basins. This site is not documented as a high-volume liquid waste site.								Europium-152	/	9.8	/	9.75
													Europium-154	/	1.1	/	1.12
													Europium-155	/	0.029 U	/	0.22
													Plutonium-238	/	0.016 U	/	0.048
													Plutonium-239/240	/	0.127	/	0.099
													Strontium-90	/	0.729 J	/	0.0445
													Hexavalent Chromium	/	2.6	/	2.4
													Aroclor-1016	/	0.034 UJ	/	0.033 UJ
													Aroclor-1221	/	68	/	0.067 UJ
													Aroclor-1232	/	0.034 UJ	/	0.033 UJ
													Aroclor-1242	/	0.034 UJ	/	0.033 UJ
													Aroclor-1248	/	0.034 UJ	/	0.033 UJ
													Aroclor-1254	/	0.034 UJ	/	0.033 UJ
													Aroclor-1260	/	0.034 UJ	/	0.033 UJ
100-D-19	Trench	100-DR-1	Not Documented	1953	Received sludge from the 107-D Retention basin to facilitate repairs to the retention basin.	Interim Closed	WSRF 2000-128 CVP-2000-00003	Dec. 28, 1998	Jul. 24, 2000	Apr. 3, 2000 to Aug. 8, 2000	107,266	6	Americium-241	/	0.366 J	/	0.464
													Cobalt-60	0.061 U	7.33	0.05	5.29
													Cesium-137	0.809	39.5	0.251	28.2
													Europium-152	0.402	64.2	0.3	34.2
													Europium-154	0.15 U	8.01	0.12	4.25
													Nickel-63	/	817		1,060
													Plutonium-239/240	0.24 U	1.31	0.13	0.449
													Strontium-90	0.196 J	1.14	0.15	0.607
													Uranium-233/234	0.713 J	0.933 J	0.5	0.57
													Uranium-238	0.676 J	0.873 J	0.42	0.554
													Mercury	/	1.6	/	2
													Hexavalent Chromium	0.64	5	0.64	5
													PCB	/	U	/	/
100-D-2	Foundation	100-DR-1	1.2 x 1.2	Not Documented	Small lead sheet covering a concrete pad southwest of the 185-D Building. Purpose unknown. contaminant of potential concern is lead.	Interim Closed	WSRF/RSVP-2007-030	Apr. 4, 2007	Oct. 17, 2007	Oct. 17, 2007	216	1.3	Arsenic	2.1 (<BG)	/	/	/
													Barium	65 (<BG)	/	/	/
													Beryllium	0.19 (<BG)	/	/	/
													Boron	3.3	/	/	/
													Cadmium	0.31 (<BG)	/	/	/
													Chromium Total	7.3 (<BG)	/	/	/
													Cobalt	6.7 (<BG)	/	/	/
													Copper	14.5 (<BG)	/	/	/
													Hexavalent Chromium	0.41	/	/	/
													Lead	8.9 (<BG)	/	/	/
													Lithium	4.7 (<BG)	/	/	/
													Manganese	294 (<BG)	/	/	/
													Molybdenum	0.92	/	/	/
													Nickel	11.8 (<BG)	/	/	/
													Strontium (total)	24.6	/	/	/
													Tin	2.4	/	/	/
													Vanadium	50.1 (<BG)	/	/	/
													Zinc	51.3 (<BG)	/	/	/
100-D-20	Trench	100-DR-1	575 m^2 x 2.1	1953	Received sludge and effluent containing radioactive and hazardous materials from 116-D-7 (107-D/DR) Retention basins. This site is not documented as a high-volume liquid waste site.	Interim Closed	WSRF 98-067 CVP-98-00003	Jul. 30, 1997	Aug. 1, 1997	Apr. 1, 1998	9,710	2.1	Americium-241	0.205 J	/	0.134[d]	/
													Cobalt-60	0.11 U	/	0.072[d]	/
													Cesium-137	2.24	/	1.23[d]	/
													Europium-152	1.91	/	0.473[d]	/
													Europium-154	0.32 U	/	0.083[d]	/
													Europium-155	0.145 U	/	0.045[d]	/
													Plutonium-238	0.13 U	/	0.012[d]	/
													Plutonium-239/240	0.0407	/	0.041[d]	/
													Strontium-90	0.0868 U	/	0.087[d]	/
													Hexavalent Chromium	0.083 U	/	0.030 U[d]	/
													PCB	/	/	0.035 U[d]	/
													Aroclor-1260	0.035 U	/	0.035 U[d]	/
100-D-21	Trench	100-DR-1	891 m^2 x 3.0, Other sources suggest depth is 4.5 m	1953	Received sludge and effluent containing radioactive and hazardous materials from 116-D-7 (107-D/DR) Retention basins. This site is not documented as a high-volume liquid waste site.	Interim Closed	WSRF 98-066 CVP-98-00002	Dec. 31, 1997	Mar. 17, 1998	Mar. 17, 1998	9,943	4.5	Americium-241	0.0242 U	/	0.0242[d]	/
													Cobalt-60	0.15 U	/	0.0074[d]	/
													Cesium-137	0.0281 J	/	0.0281[d]	/
													Europium-152	0.17 U	/	0.0723[d]	/
													Europium-154	0.54 U	/	0.0198[d]	/
													Europium-155	0.28 U	/	0.0341[d]	/
													Plutonium-238	0.022 U	/	0.0119[d]	/
													Plutonium-239/240	0.0074 U	/	0.0074[d]	/
													Strontium-90	0.061 U	/	0.061[d]	/
													Hexavalent Chromium	0.81 U	/	0.030 U[d]	/
													Aroclor-1260	0.034 U	/	0.034 U[d]	/

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100-D-22	Trench	100-DR-1	340 m^2 x 3.0, Other sources suggest depth is 4.8 m	1953	Received sludge and effluent containing radioactive and hazardous materials from 116-D-7 (107-D/DR) Retention basins. This site is not documented as a high-volume liquid waste site.	Interim Closed	WSRF 98-033 CVP-98-00001	Mar. 14, 1997	Nov. 11, 1997	Nov. 11, 1997	9,710	4.8	Americium-241	0.059	/	0.059	/
													Cobalt-60	0.0334 J	/	0.031	/
													Cesium-137	0.21	/	0.164	/
													Europium-152	0.374	/	0.303	/
													Europium-154	0.045 U	/	0.045	/
													Europium-155	0.0396 U	/	0.04	/
													Plutonium-238	0.00621 U	/	0.006	/
													Plutonium-239/240	0.0351 U	/	0.032	/
													Strontium-90	0.304 J	/	0.237	/
													Hexavalent Chromium	0.81 UJ	/	0.030 U	/
													Lead	/	/	3.9	/
													PCB	7.2 N	/	0.035 U	/
													Aroclor-1260	47	/	0.035 U	/
100-D-23	French Drain	100-DR-2	0.67 m^2	1959-1964	Site received drainage from the 119-DR Sample Building floor drain.	Interim Closed	WSRF 2003-053 CVP-2003-00018	Jul. 2003	Jul. 2003	Aug. 8, 2003	14,011	4.6	Refer to 122-DR-1:2				
100-D-24	French Drain	100-DR-1	0.6 long x 0.6 wide x 3.1 deep	1959	This site is a dry well that received drainage from a floor drain in the 119-D Sample Building. confirmation sampling demonstrated that residual contaminant concentrations support unrestricted land use. Therefore, this site is reclassified as a no action site.	No Action	WSRF/RSVP-2006-004	N/A	N/A	confirmatory sampling done on Nov. 3, 2005.	N/A	3	Uranium-233/234	0.567	/	/	/
													Uranium-238	0.657	/	/	/
													Arsenic	2.3	/	/	/
													Barium	60.3 C	/	/	/
													Beryllium	0.27	/	/	/
													Boron	1.9 C	/	/	/
													Cadmium	0.2	/	/	/
													Chromium Total	6.2	/	/	/
													Cobalt	7.6	/	/	/
													Copper	15.3	/	/	/
													Hexavalent Chromium	0.24	/	/	/
													Lead	4.1	/	/	/
													Manganese	295 C	/	/	/
													Mercury	0.06	/	/	/
													Molybdenum	0.47	/	/	/
													Nickel	9.8	/	/	/
													Vanadium	48.7	/	/	/
													Zinc	41.6	/	/	/
													Di-n-butylphthalate	0.022 J	/	/	/
100-D-25	Unplanned Release	100-DR-1	could not be distinguished from other contaminated soil beneath 116-DR-9 basin	1951	Site is located beneath the 107-DR Retention basin. Release is the result of retention basin leaks. The effluent volume release is unknown. During remediation of 116-DR-9, 100-D-25 could not be distinguished from other contaminated soil and was remediated with 116-DR-9 under the provisions for "proximity sites."	Interim Closed	WSRF 99-106 CVP-99-00006 (pg 3 of 145)	Oct. 21, 1997	Dec. 28, 1998	Feb. 18 and Mar. 11, 1999	201,519	4.75	Refer to 116-DR-9				
100-D-26	Depression/Pit (nonspecific)	100-DR-1	100 m diameter	Not Documented	The borrow pit may have been used as a source of fill at reactor or at the 107-DR Retention basins (116-DR-9) during construction. The site may also have been used later as a source of fill for the nearby 628-3 burn pit.	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
100-D-27	Unplanned Release	100-DR-2	59.08 m^2	6/1/1995	Site consists of an unplanned release within the 151-D Electrical Substation. 400 L (106 gal) of PCB was released. The concentration of PCB in the liquid was 42 ppm. The transformer was repaired, facility was power washed, all contaminated material was shoveled into seven 208-L (55gal) drums, and the site backfilled with clean gravel.	Closed Out	WSRF 2005-014	June ?,1995	Aug.?, 1995	None	1,456 L (385 gal) of contaminated material drummed.	N/A	No more than 0.016 kg (0.04 lb) of PCB was released, which is significantly less than the CERCLA requirement of 0.45 kg (0.04 lb).				

Table E1. Waste Site Description and History with Associated Interim Action Closeout Data

Site Code	Site Type	Operable Unit	Site Dimensions (m)	Dates of Operation	Site History	Class Status	Decision/ Closeout 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	Maximum Concentration (pCi/g, mg/kg) Shallow[a]	Maximum Concentration (pCi/g, mg/kg) Deep[b]	95% UCL (pCi/g, mg/kg) Shallow[a]	95% UCL (pCi/g, mg/kg) Deep[b]
100-D-28:1	Septic Tank	100-DR-2	1.1 x 2.3 x 1.5	Not Documented	100-D-28 consists of two septic systems that formerly serviced the 190-DR Pumphouse; the original and the replacement. 100-D-28:1 is the replacement system and consists of a 2,730-L (720-gal) steel septic tank and vitrified clay pipe drain field. 100-D-28:2 is the original system and consists of a 2,839-L (750-gal) septic tank and drain field.	Interim Closed	WSRF-2011-047	Jul-10	Aug-10	Apr-11	2,769 BCM	5 m	Antimony	0.38	/	—	N/A
													Arsenic	—	/	2.208	
													Barium	—	/	63.46588423	
													Beryllium	0.09	/	—	
													Boron	1.3	/	—	
													Cadmium	—	/	0.093	
													Chromium (total)	—	/	9.985132933	
													Cobalt	—	/	8.062902717	
													Copper	—	/	15.204	
													Hexavalent chromium	0.247	/	—	
													Lead	—	/	7.422345651	
													Manganese	/	/	302.63	/
													Mercury	/	/	0.15	/
													Molybdenum	0.41	/	/	/
													Nickel	/	/	11.90	/
													Selenium	1.7	/	/	/
													Vanadium	/	/	54.12	/
													Zinc	/	/	57.54	/
													Acenaphthene	0.045	/	/	/
													Anthracene	0.11	/	/	/
													Benzo(a)anthracene	/	/	0.03	/
													Benzo(a)pyrene	0.085	/	/	/
													Benzo(b)fluoranthene	/	/	0.03	/
													Benzo(ghi)perylene	0.021	/	/	/
													Benzo(k)fluoranthene	0.025	/	/	/
													Bis(2-ethylhexyl)phthalate	0.16	/	/	/
													Carbazole	/	/	/	/
													Chrysene	/	/	0.04	/
													Dibenzofuran	0.043	/	/	/
													Di-n-octylphthalate	0.083	/	/	/
													Fluoranthene	0.042	/	/	/
													Fluorene	0.05	/	/	/
													Indeno(1,2,3-cd)pyrene	0.053	/	/	/
													Naphthalene	0.046	/	/	/
													Phenanthrene	0.32	/	/	/
													Phenol	0.028	/	/	/
													Pyrene	/	/	0.07	/
100-D-28:2	Septic Tank	100-DR-2	11.5 x 5	Not Documented	Site consisted of a septic tank and drain field. The tank capacity was 2,839-liters. It does not appear that the 100-D-28:2 septic tank and tile field could have survived the construction of the 190-DR Annex. Likely a new septic system (100-D-28:1) was installed per drawing H-9923, southwest of the 190-DR as a replacement system. based on the historical documentation, the 100-D-28:2 septic system has not existed or been used in over 50 years.	Rejected	WSRF 2005-015	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-29	Unplanned Release	100-DR-1	80.7 x 11	1951	This site is an unplanned release of effluent water from the reactor cooling water (effluent line leak No. 2) and is located southeast of the 107-DR basin (116-DR-9).	Interim Closed	WSRF/RSVP-2009-038	Mar. 7, 2008	Mar. 28, 2008	Jun. 3-4, 2009	5,200 bank Cubic meters	4.6	Cesium-137	0.0835	/	0.0174	/
													Tritium (H-3)	0.0135	/	0.01	/
													Uranium-234	0.543	/	0.253	/
													Uranium-235	0.0285 J	/	0.0128	/
													Uranium-238	0.612	/	0.28	/

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													Antimony	0.79 B	/	0.6	/
													Arsenic	3.5	/	2.8	/
													Barium	78	/	68	/
													Chromium	9.6	/	8.2	/
													Cobalt	7.5	/	7.2	/
													Lead	3.6	/	3.1	/
													Manganese	320	/	293	/
													Nickel	11	/	9.7	/
													Vanadium	67	/	61	/
													Zinc	45 L	/	41	/
													Beryllium	0.24 B	/	/	/
													Boron	18 MN	/	/	/
													Cadmium	0.05 B	/	/	/
													Mercury	0.01 B	/	/	/
													Molybdenum	0.29 BM	/	/	/
100-D-3	Burial Ground	100-DR-1	384.9 m^2	Not Documented	Small covered trench with concrete marker and brass cap. Disposal of silica gel from the 115-D/DR Drying Towers. Potentially contaminated with radioactive and hazardous materials.	No Action	WSRF/RSVP-2008-017	N/A	N/A	N/A	N/A	N/A	There is little historical information available to identify the precise location of the 100-D-3 waste site. considerable effort was made to identify and investigate possible locations where the silica gel may have been buried. The primary location for the silica gel pit was excavated during remediation of waste site 116-D-2. The alternate locations based on interpretation of geophysical survey data were excavated and sampled. Neither location contained evidence of silica gel.				
100-D-30	Unplanned Release	100-DR-1	92.7 x 1 x 3, 117 x 11.6	1945-1967	Sodium dichromate contamination was discovered in the soil along the entire length of the 185-D Sodium Dichromate Trench.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-31:1	Process Sewer	100-DR-1	400 linear m	1944-1994	The 100-D-31:1, 1607-D2 septic sewer pipeline, transported sanitary sewage from the 100-D-31:2 and 100-D-31:3 feeder sewers to the 1607-D2 septic system.	Interim Closed	WSRF/RSVP-2010-005	N/A	N/A	N/A	N/A	N/A	Samples Exc-2, Exc-4, Exc-6 and Exc-1 1 exceed the soil cleanup value for protection of groundwater for hexavalent chromium (0.2 mg/kg using a Kd of 0 mL/g with WAC 173- 340 Equation 747-1 (2007)). This causes the hazard quotient for Cr (VI) and the hazard index for contaminants toxic to the kidney to exceed 1 for these locations. The 95% UCL for the excavation also exceeds 0.2 mg/kg for Cr (VI).				
100-D-31:2	Process Sewer	100-DR-1	7567.2 (includes all 100-D-31 subsites)	1944-1994	The 100-D-31:2 sanitary sewers formerly serviced 1700-series facilities, discharging to the 100-D-31:1 main line.	Interim Closed	WSRF/RSVP-2010-006	N/A	N/A	N/A	N/A	N/A	Samples Exc-2, Exc-4, Exc-6 and Exc-1 1 exceed the soil cleanup value for protection of groundwater for hexavalent chromium (0.2 mg/kg using a Kd of 0 mL/g with WAC 173- 340 Equation 747-1 (2007)). This causes the hazard quotient for Cr (VI) and the hazard index for contaminants toxic to the kidney to exceed 1 for these locations. The 95% UCL for the excavation also exceeds 0.2 mg/kg for Cr (VI).				
100-D-31:3	Sewer Pipelines	100-DR-1	7567.2 (includes all 100-D-31 subsites)	1944-1994	The 100-D-31:3 sanitary sewers formerly serviced the 105-D, 108-D, 1700-series facilities, discharging to the 100-D-31:1 main line.	Interim Closed	WSRF/RSVP-2010-049	5/19/2008	12/30/2008	June 7 to Jan. 21, 20011	7,687 BCM	3.5	Cesium-137	/	/	0.0327	/
													Total beta radiostrontium	/	/	0.0744	/
													Uranium-233/234	/	/	0.724	/
													Uranium-238	/	/	0.841	/
													Arsenic	/	/	2.2	/
													Barium	/	/	66.5	/
													Beryllium	/	/	0.15	/
													Boron	1.3	/	/	/
													Cadmium	/	/	0.072	/
													Chromium Total	/	/	7.8	/
													Cobalt	/	/	9.4	/
													Copper	/	/	18.5	/
													Hexavalent Chromium	0.181	/	0.177	/
													Lead	/	/	3.4	/
													Manganese	/	/	317	/
													Mercury	/	/	0.021	/
													Molybdenum	0.48	/	/	/
													Nickel	/	/	9.7	/
													Selenium	1.2	/	/	/
													Sulfate	/	/	/	/
													Vanadium	/	/	70.9	/
													Zinc	/	/	47.8	/
													Chloride	4.8	/	/	/
													Fluoride	1	/	/	/
													Nitrogen in Nitrate	2	/	/	/
													Nitrogen in Nitrite	0.41	/	/	/
													Nitrogen in Nitrate and N	/	/	1.1	/
													Sulfate	/	/	14	/
													TPH-diesel range	6.1	/	/	/

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													TPH-diesel range extend	/	/	14	/
													Methylene chloride	/	/	2	/
													Acenaphthene	0.1	/	/	/
													Anthracene	0.2	/	/	/
													Benzo(a)anthracene	0.042	/	0.0621	/
													Benzo(a)pyrene	0.31	/	/	/
													Benzo(b)fluoranthene	0.27	/	/	/
													Benzo(ghi)perylene	0.28	/	/	/
													Benzo(k) fluoranthene	0.16	/	/	/
													Chrysene	0.3	/	/	/
													Fluoranthene	0.6	/	/	/
													Fluorene	0.059	/	/	/
													Indeno(1,2,3-cd) pyrene	0.25	/	/	/
													Bis(2-ethylhexyl)phthala	4.3	/	/	/
													Naphthalene	0.047	/	/	/
													Phenanthrene	0.41	/	/	/
													Pyrene	0.63	/	/	/
													Bis(2-ethylhexyl)phthala	0.0043	/	/	/
													Dimethyl phthalate	0.12	/	/	/
													4,4'DDE	0.029	/	/	/
													4,4'DDT	0.0056	/	/	/
100-D-31:4	Process Sewer	100-DR-1	7567.2 (includes all 100-D-31 subsites)	1944-1994	The 100-D-31:4 subsite includes two functionally separate pipeline networks: 1) sanitary sewers formerly servicing the 186-D and 190-D facilities, discharging to the 100-D-31:3 sanitary sewers; 2) continuation of process sewers from 100-D-31:8, including direct connections from the 186-D and 190-D facilities, discharging to the 100-D-31:7 main line.	Interim Closed	WSRF/RS VP-2010-050	9/26/2008	12/10/2009	June 7 to Jan. 21, 20011	9,883 BCM	4.8	Cesium-137	/	/	0.0327	N/A
													Total beta radiostrontium	/	/	0.0744	/
													Uranium-233/234	/	/	0.572	/
													Uranium-238	/	/	0.657	/
													Arsenic	/	/	2.1	/
													Beryllium	/	/	0.13	/
													Boron	1.3	/	/	/
													Cadmium	/	/	0.085	/
													Chromium Total	/	/	7.5	/
													Cobalt	/	/	1`1.1	/
													Copper	/	/	18.5	/
													Hexavalent Chromium	0.177		0.396	/
													Lead	/	/	4.6	/
													Manganese	/	/	318	/
													Mercury	/	/	0.036	/
													Molybdenum	0.48	/	/	/
													Nickel	/	/	10	/
													Selenium	1.2	/	/	/
													Sulfate	/	/	4.3	/
													Vanadium	/	/	84.6	/
													Zinc	/	/	48.6	/
													Chloride	3.5	/	/	/
													Fluoride	1	/	/	/
													Nitrogen in Nitrate	-0.73	/	/	/
													Nitrogen in Nitrite	0.41	/	/	/
													Nitrogen in Nitrate and N	0.59	/	0.38	/
													Sulfate	/	/	14	/
													TPH-diesel range	25		2.4	/
													TPH-diesel range extend	/	/	103.29	/
													Acetone	0.0074	/	/	/
													Methylene chloride	/	/	0.0013	/
													Acenaphthene	0.1	/	/	/
													Anthracene	0.7	/	/	/
													Benzo(a)anthracene	2.4	/	0.0621	/
													Benzo(a)pyrene	1.9	/	/	/
													Benzo(b)fluoranthene	1.6	/	/	/
													Benzo(ghi)perylene	0.4	/	/	/
													Benzo(k) fluoranthene	0.92	/	/	/
													Chrysene	1.9	/	/	/
													Dibenz(a,h)anthracene	0.22	/	/	/
													Fluoranthene	4.2	/	/	/
													Fluorene	0.059	/	/	/
													Indeno(1,2,3-cd) pyrene	1.2	/	/	/
													Bis(2-ethylhexyl)phthala	0.3	/	/	/

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													Naphthalene	0.047	/	/	/
													Phenanthrene	1.7	/	/	/
													Pyrene	4.9	/	/	/
													2-methylnapthalene	0.0023	/	/	/
													Bis(2-ethylhexyl)phthala	0.003	/	/	/
													Dimethyl phthalate	0.024	/	/	/
													Carbazole	0.23	/	/	/
													Di-n-butyphthalate	0.24	/	/	/
													Di-n-octylpthalate	0.092	/	/	/
													4,4'DDE	0.029	/	/	/
													4,4'DDT	0.0056	/	/	/
													gamma-Chlordane	0.0037	/	/	/
													Aroclor-1254	0.019	/	/	/
100-D-31:5	Process Sewer	100-DR-1	135 linear m	1950-1960	These pipelines ran from the 184-D powerhouse and carried a slurry of coal ash and raw river water. The slurry was transported to the 188-D ash disposal basin (126-D-1 waste site).	Interim Closed	WSRF/RSVP-2008-058	Oct. 29, 2007	Jan. 9, 2008	Aug. 26; Oct. 13; & Dec. 30, 2008	852 BCM	1.7	Antimony	0.74 UJ	/	/	/
													Arsenic	3.8	/	3.2	/
													Barium	214 J	/	139	/
													Beryllium	0.39	/	0.20(<BG)	/
													Boron	14.4 J	/	13.1	/
													Cadmium	0.26	/	0.24(<BG)	/
													Chloride	9.8	/	/	/
													Chromium Total	13.3	/	12.3(<BG)	/
													Cobalt	9.1	/	8.1(<BG)	/
													Copper	16.9	/	15.6(<BG)	/
													Lead	14	/	7.3(<BG)	/
													Manganese	351	/	332(<BG)	/
													Mercury	0.24	/	/	/
													Molybdenum	0.7	/	/	/
													Nickel	14	/	12.6	/
													Nitrate	60.0 J	/	23.7	/
													Selenium	1.5 U	/	/	/
													Sulfate	577 D	/	547	/
													Vanadium	63.7	/	54.3(<BG)	/
													Zinc	182	/	85	/
100-D-31:6	Process Sewer	100-DR-1	7567.2 (includes all 100-D-31 subsites)	1944-1994	This subsite includes a total of 4 pipeline segments. 3 of these were process sewer pipelines and the 4th was a sanitary sewer pipeline, all of which exited the 184-D building.	Interim Closed	WSRF/RSVP-2008-054	Nov. 1, 2007	Mar. 5, 2008	Oct. 7, 2008	371 bank Cubic Meters	between 1.5 and 3.3	Antimony	0.8	/	/	/
													Arsenic	6.7	/	3.8	/
													Barium	160	/	102	/
													Beryllium	1.4	/	1.3	/
													Boron	12	/	6.9	/
													Cadmium	0.16B	/	0.08	/
													Chromium Total	14	/	11	/
													Cobalt	9.3	/	9	/
													Copper	33	/	27	/
													Hexavalent Chromium	0.364	/	/	/
													Lead	15	/	7.9	/
													Manganese	360	/	330	/
													Mercury	0.81	/	11	/
													Molybdenum	0.46	/	/	/
													Nickel	16	/	12	/
													Vanadium	71	/	66	/
													Zinc	97	/	63	/
													Chloride	17	/	13	/
													Fluoride	1.7	/	1.1	/
													Nitrate (as Nitrogen)	/	/	12	/
													Sulfate	230	/	79	/
													benzo(a)anthracene	0.008	/	/	/
													Chrysene	0.0093	/	/	/
													Phenanthrene	0.02	/	/	/
100-D-31:7	Process Sewer	100-DR-1	7567.2 (includes all 100-D-31 subsites)	1944-1994	The 100-D-31:7, 116-D-5 and D-Pond Sewer Pipeline subsite includes functionally separate process and sanitary sewers. During reactor operations, the nonradioactive overflows, process cooling waste streams, filter backwashes, and floor drains in nonradioactive areas became process sewer wastes. The 100-D-31:7 main pipeline carried water treatment waste and rainwater runoff to the 116-D-5 Outfall until 1977, when the	Interim Closed	RSVP-2010-046	Nov. 5, 2007	Dec. 9, 2009	Apr. 27 & 29, 2010	17,684 BCM	12 to 16		Excavation Maximum	Excavation 95% UCL	Overburden Maximum	Overburden 95% UCL
													Strontium-90	/	/	0.105	0.041
													Uranium-233/234	0.14	0.091	0.206	0.157
													Uranium-238	0.14	0.1	0.251	0.156
													Arsenic	1.9	1.1	2.8	2
													Barium	80.3 J	66.3	88.0 L	65.1
													Chromium	14.1 J	7	7.8	6
													Cobalt	11.2 L	10.4	9.3 L	8.7
													Copper	19.0 J	17.9	20.4	19.3
													Lead	2.4	1.8	3.4	2.7
													Manganese	378 L	333	325	301
													Nickel	11.6 L	9.8	10.5	9.1

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Site Code	Site Type	Operable Unit	Site Dimensions (m)	Dates of Operation	Site History	Class Status	Decision/ Closeout 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	Maximum Concentration (pCi/g, mg/kg) Shallow[a]	Maximum Concentration (pCi/g, mg/kg) Deep[b]	95% UCL (pCi/g, mg/kg) Shallow[a]	95% UCL (pCi/g, mg/kg) Deep[b]
					process sewer drainage was diverted solely to the 100-D Ponds (120-D-1) from 1977 to 1994. The 100-D-31:7 process sewer received effluent from the following facilities:105-D, 182-D, 183-D, 184-D, 185-D, 186-D, 189-D, and 190-D. The 100-D-31:7 sanitary sewer is a connection between the 100-D-31:6 and 100-D-31:2 sewers.								Vanadium	85.4 J	80.5	70.0 L	66.8
													Zinc	50.3 J	48.3	46.0 L	42.7
													Sulfate	44.7 J	12.8	17.8	11.3
													Beryllium	1.5	/	1.7	/
													Mercury	0.13	/	/	/
													Molybdenum	0.29 B	/	0.65 B	/
													2-butanone	0.002 JB	/	0.0021 J	/
													Acetone	0.011 J	/	0.013 JB	/
													Chloride	8.4	/	4.1	/
													Nitrogen in nitrite and nitrate	1.8	/	1	0.85
													TPH - diesel range	0.97	/	2.7 J	1.7
													TPH - diesel range Extended	1.1	/	4.6	2.8
													Antimony	/	/	0.47 B	/
													Cadmium	/	/	0.046 B	/
													benzo(a)anthracene	/	/	0.004 JX	/
													Aroclor-1260	/	/	0.0082 JP	/
													DDE, 4, 4'-	/	/	0.00067 J	/
													Fluoride	/	/	1.3 B	/
100-D-31:8	Process Sewer	100-DR-1	7567.2 (includes all 100-D-31 subsites)	1944-1994	The 100-D-31:8 pipeline includes functionally separate process and sanitary sewers that received waste from the 100-D-31:9, 100-D-31:10, 100-D-31:11, and 100-D-31:12 sewer pipelines, ultimately discharging to the 100-D-31:4 and 100-D-31:7 sewer pipelines.	Interim Closed	RSVP-2010-032	27-Aug-09	19-May-10	3-Mar-11	5,732 BCM	9	Strontium-90	/	/	/	0.219
													Uranium-234	/	/	/	0.248
													Uranium-238	/	/	/	0.266
													Arsenic	/	/	/	2.5
													Barium	/	/	/	73.7
													Boron		1.2		
													Cadmium	/	/	/	0.069
													Chromium	/	/	/	7.2
													Cobalt	/	/	/	8.5
													Copper	/	/	/	15.3
													Hexavalent Chromium		0.332		
													Lead	/	/	/	3.5
													Mercury		0.018		0.0072
													Molybdenum		0.63		
													Manganese	/	/	/	399
													Nickel	/	/	/	10.2
													Vanadium	/	/	/	64.8
													Zinc	/	/	/	44.8
													Sulfate	/	/	/	3.4
													Chloride	/	27.5	/	/
													Fluoride	/	3.6	/	1.1
													Nitrogen in nitrate	/	/	/	1
													Nitrogen in nitrate and nitrite	/	1.4	/	/
													1,1-Dichloroethene	/	0.0015	/	/
													4,4'-DDT	/	0.63	/	/
													Acetone	/	0.008	/	/
													Benzo(a)anthracene	/	0.0065	/	/
													Benzo(a)pyrene	/	0.012	/	/
													Benzo(b)fluoranthene	/	0.012	/	/
													Benzo(k) fluoranthene	/	0.0069	/	/
													Bis(2-ethylhexyl)phthala	/	0.11	/	/
													Chrysene	/	0.013	/	/
													Fluoranthene	/	.0.017	/	/
													Methylene chloride	/		/	0.0012
													Pyrene	/	0.0027	/	/
													Toluene	/	0.0012	/	/
													TPH-diesel range	/	1.7	/	/
													TPH-diesel range EXT	/	2.1	/	/
													Note: Although the excavation extends into the deep zone, the most restrictive interim cleanup criteria is applied.				
100-D-31:9	Process Sewer	100-DR-1	7567.2 (includes all 100-D-31 subsites)	1944-1994	The 100-D-31:9 pipelines consist of the 183-D and 186-D Buildings process sewer pipelines and the continuation of a process sewer main from 183-DR (100-D-50:7 subsite). The pipelines formerly discharged to	Interim Closed	RSVP-2010-032										
													Uranium-234	/	/	/	0.229
													Uranium-238	/	/	/	0.266
													Arsenic	/	/	/	2.5
													Barium	/	/	/	61.1
													Boron		1.1		

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Site Code	Site Type	Operable Unit	Site Dimensions (m)	Dates of Operation	Site History	Class Status	Decision/ Closeout 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	Maximum Concentration (pCi/g, mg/kg) Shallow[a]	Maximum Concentration (pCi/g, mg/kg) Deep[b]	95% UCL (pCi/g, mg/kg) Shallow[a]	95% UCL (pCi/g, mg/kg) Deep[b]
					the 100-D-31:8 sewers.								Cadmium	/	/	/	0.073
													Chromium	/	/	/	5.3
													Cobalt	/	/	/	8.7
													Copper	/	/	/	14.8
													Hexavalent Chromium		0.0.222		
													Lead	/	/	/	3.1
													Mercury		0.0078		/
													Molybdenum		0.36		
													Manganese	/	/	/	317
													Nickel	/	/	/	9.2
													Vanadium	/	/	/	57.1
													Zinc	/	/	/	40.4
													Sulfate	/	/	/	10.3
													Fluoride	/	0.9	/	
													Nitrogen in nitrate	/	/	/	0.63
													Nitrogen in nitrate and nitrite	/	1.3	/	/
													1,1-Dichloroethene	/	/	/	0.0013
													4,4'-DDT	/	0.031	/	/
													4,4'-DDE		0.012		
													Acetone	/	0.013	/	/
													Benzo(a)anthracene	/	0.047	/	/
													Benzo(a)pyrene	/	0.02	/	/
													Benzo(b)fluoranthene	/	0.028	/	/
													Benzo(k) fluoranthene	/	0.011	/	/
													Bis(2-ethylhexyl)phthala	/	0.12	/	0.086
													Chrysene	/	0.035	/	/
													Di-n-octylphthalate	/	0.21	/	/
													Indeno(1,2,3-cd)pyrene	/	0.012	/	
													Pyrene	/	0.07	/	/
													Phenol	/	0.024	/	/
													TPH-diesel range EXT	/	2.8	/	/
													Note: Although the excavation extends into the deep zone, the most restrictive interim cleanup criteria is applied.				
100-D-31:10	Process Sewer	100-DR-1	150 linear m	1944-1994	The 100-D-31:10 sanitary sewers formerly serviced a portion of the 182-D facility.	Interim Closed	RSVP-2010-032	29-Dec-09	Jan. 9, 2010	3-Mar-11	1544 BCM	3	Cesium-137	/	/	0.0164	/
													Nickel-63	/	/	4.51	/
													Total beta radio stronium	/	/	0.287	/
													Uranium-234	/	/	0.225	/
													Uranium-238	/	/	0.231	/
													Arsenic	/	/	2.7	/
													Barium	/	/	67.6	/
													Boron	1.4	/	1	/
													Cadmium	/	/	0.11	/
													Chromium	/	/	7.8	/
													Cobalt	/	/	9.4	/
													Copper	0.506	/	9.16,	/
													Hexavalent Chromium	/	/	/	/
													Lead	/	/	3.7	/
													Mercury	0.0096	/	0.015	/
													Molybdenum	0.29	/	/	/
													Manganese	/	/		/
													Nickel	/	/	10	/
													Vanadium	/	/	65.8	/
													Zinc	/	/	45.6	/
													Sulfate	/	/	11.3	/
													Chloride	2.8	/	/	/
													Fluoride	/	/	1.5	/
													Nitrogen in nitrate	/	/	4.1	/
													Nitrogen in nitrate and nitrite	/	/	5.2	/
													Nitrogen in nitrite	0.4	/	/	/
													1,1-Dichloroethene	0.0013	/	/	/
													4,4'-DDT	0.0022	/	/	/
													4,4'-DDE	0.0014	/	/	/
													Acetone	0.0095	/	/	/
													Bis(2-ethylhexyl)phthala	/	/	0.101	/
													Methylene chloride	0.00098	/	/	/
													Phenol	0.029	/	/	/
													Toluene	0.0021	/	/	/

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Site Code	Site Type	Operable Unit	Site Dimensions (m)	Dates of Operation	Site History	Class Status	Decision/ Closeout 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	Maximum Concentration (pCi/g, mg/kg) Shallow[a]	Maximum Concentration (pCi/g, mg/kg) Deep[b]	95% UCL (pCi/g, mg/kg) Shallow[a]	95% UCL (pCi/g, mg/kg) Deep[b]
													Bis(2-ethylhexyl)phthala	/	/	/	/
													TPH-diesel range	1	/	1.804	/
													TPH-diesel range EXT	5.7	/	5.506	/
100-D-31:11	Process Sewer	100-DR-1	7567.2 (includes all 100-D-31 subsites)	1944-1994	The 100-D-31:11, 182-D and 183-D process and sanitary sewer pipelines, transported effluents from the east side of the 182-D building and the west side of the 183-D Building. The 100-D-31:11 pipelines transported the waste water to the 100-D-31:8 pipelines.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	N/A
100-D-31:12	Process Sewer	100-DR-1	7567.2 (includes all 100-D-31 subsites)	1944-1994	The 100-D-31:12 process sewer pipelines serviced the west side of the 183-D Building and discharged to the 100-D-31:11 process sewer pipelines.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	NA	NA	NA	NA	N/A
100-D-32	Burial Ground	100-DR-1	15.2 x 15.2	1956	This site was planned for the disposal of contaminated equipment from the 105-D and 105-DR Reactor building and effluent system equipment. There was no documentation that the site was ever used. Some inert construction/demolition debris was found during remediation.	Interim Closed	WSRF 2009-008 CVP-2009-00003	Aug. 28, 2007	Jul. 31, 2008	Not documented	600 BCM	3 (exploratory down to 6)	Cesium-137	0.188	/	0.069	/
													Nickel-63	/	/	1.86	/
													Uranium-233/234	0.822	/	0.492 (<BG)	/
													Uranium-235	0.164 U(GEA)	/	/	/
													Uranium-238	4.47 U (GEA)	/	0.499(<BG)	/
													Antimony	1	/	0.8(<BG)	/
													Arsenic	4.4	/	2.7(<BG)	/
													Barium	79.7	/	70.1(<BG)	/
													Beryllium	1.4	/	0.2(<BG)	/
													Boron	2.8	/	1.9	/
													Cadmium	0.2	/	0.2(<BG)	/
													Chromium Total	14.4 B	/	11.4(<BG)	/
													Cobalt	9.7	/	7.9(<BG)	/
													Copper	26.3	/	14.9(<BG)	/
													Lead	8.8	/	6.7(<BG)	/
													Manganese	455	/	364(<BG)	/
													Molybdenum	0.6 B	/	0.5	/
													Nickel	16.1	/	12.3(<BG)	/
													Vanadium	94.7	/	77.2(<BG)	/
													Zinc	80.7	/	62.5(<BG)	/
100-D-33	Burial Ground	100-DR-1	30.48 x 15.24	1954	This site originally was considered to be a low-level waste burial ground for reactor waste. After performance of geophysical surveys and trenching, the site could not be located. 100-D-33 has been rejected as a waste site.	Rejected	WSRF 2007-023 plus attachments	N/A	N/A	N/A	N/A	N/A	4,4'-DDT	/	0.63	/	/
100-D-34	Unplanned Release	100-DR-1	Not Documented	Not Documented	This unaccepted waste site was originally proposed to addressed those areas not within other waste sites.	Not Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	Acetone	/	0.008	/	/
100-D-35	Burial Ground	100-DR-1	30.5 x 15.2 x 7.6	1954	This site originally was considered to be a low-level waste burial ground for reactor waste. After performance of geophysical surveys and trenching, the site could not be located. 100-D-35 has been rejected as a waste site.	Rejected	WSRF 2007-024 plus attachments	N/A	N/A	N/A	N/A	N/A	Benzo(a)anthracene	/	0.0065	/	/
100-D-36	Foundation	100-DR-2	2.06 x 2.06; also documented as 1.8 x 1.8 m	Not Documented	This site is the concrete pad of an environmental monitoring 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	Benzo(a)pyrene	/	0.012	/	/

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100-D-37	Foundation	100-DR-2	2.06 x 2.06	Not Documented	This site is the concrete pad of an environmental monitoring 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	Benzo(b)fluoranthene	/	0.012	/	/
100-D-38	Septic Tank	100-DR-1	Not Documented	Not Documented	This site originally was believed to be an independent septic system, but was determined to actually be a junction box and manhole associated with the 1607-D2 Septic System. The site was not accepted as a waste site because it is not a separate septic tank as identified. This manhole is included within the 100-D-31 sewer pipelines (at the juncture of the 1, 2, and 3 subsites).	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation checklist approved by the Regulators	N/A	N/A	N/A	N/A	N/A	Benzo(k) fluoranthene	/	0.0069	/	/
100-D-4	Trench	100-DR-1	630 m^2 x 3.0, Other sources suggest dimension is 244 x 2.44 x undocumented depth	1953	Received sludge and effluent containing radioactive and hazardous materials from the 116-DR-9 (107-DR) Retention basins. This site is not documented as a high-volume liquid waste site.	Interim Closed	WSRF 98-034 CVP-98-00004	Mar. 18, 1997	Mar. 27, 1997	Sept. 24, 1997	1,678	2.9	Bis(2-ethylhexyl)phthala	/	0.11	/	/
													Chrysene	/	0.013	/	/
													Fluoranthene	/	.0.017	/	/
													Methylene chloride	/		/	0.0012
													Pyrene	/	0.0027	/	/
													Toluene	/	0.0012	/	/
													TPH-diesel range	/	1.7	/	/
													TPH-diesel range EXT	/	2.1	/	/
													Note: Although the excavation extends into the deep zone, the most restrictive interim cleanup criteria is applied.				
													Uranium-238	1.16	/	/	/
													Hexavalent Chromium	0.179 J	/	0.179[d]	/
													Aroclor-1260	0.12	/	0.071[d]	/
													Aroclor-1254	0.071	/	0.12[d]	/
100-D-40	Burial Ground	100-DR-2	6.1 (depth) x 12.19 (dia.)	N/A	This site originally was considered to be a low-level waste burial ground for reactor waste. After performance of geophysical surveys and trenching, the site could not be located. 100-D-40 has been rejected as a waste site.	Rejected	WSRF 2007-025	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-41	Burial Ground	100-DR-1	22.86 x 12.19	N/A	This site originally was considered to be a low-level waste burial ground for reactor waste. After performance of geophysical surveys and trenching, the site could not be located. 100-D-41 has been rejected as a waste site.	Rejected	WSRF 2007-026	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-42	Burial Ground	100-DR-1	276.6 m^2	1955	consists of a former solid waste burial ground believed to contain vertical safety rod thimbles.	Interim Closed	WSRF 2009-012 CVP-2009-00004	Apr. 22, 2008	May. 13, 2008	Nov. 18, 2008	530 BCM	5		Excavation		Overburden	
														Maximum	95% UCL	Maximum	95% UCL
													Cesium-137	0.159	0.066	/	/
													Cobalt-60	0.062	0.034	/	/
													Antimony	0.59	0.43	0.55	0.55
													Arsenic	2.1	1.7	2.8	2.4
													Barium	69.9	61	70	61
													Beryllium	0.29	0.25	0.27	0.23
													Boron	2.6	1.4	1.2	0.96
													Cadmium	0.13	0.14	0.11	0.1
													Chromium Total	9.9	8	10.7	9.1
													Cobalt	9.5	8.7	8.9	8.4
													Copper	146 (C.)	51.3	51.3 (C.)	25.4
													Lead	8.5	4.8	4.6	3.6
													Manganese	347 (C.)	313	338 (C.)	316
													Molybdenum	0.66	0.51	0.61	0.52
													Nickel	11.3	9.6	10.8	10.1
													Vanadium	77.3	69.4	68.7	64
													Zinc	99.7	57.8	45.7	43.9
													Mercury	0.02	0.02	0.02	0.02
													Selenium	/	/	0.7	0.7

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100-D-43	Burial Ground	100-DR-2	21.3 x 7.6 x 4.6	1953-1967	This site received irradiated reactor components (vertical safety rods) and hardware from modification made to the 105-D Reactor.	Interim Closed	WSRF 2009-013 CVP-2009-00004	Sept. 10, 2007	Oct. 10, 2007	Nov. 18, 2008	803 BCM	5	Refer to 100-D-42				
100-D-45	Burial Ground	100-DR-1	24.7 x 7.3 x 5.2	Not Documented	This site received irradiated reactor components (vertical safety rods).	Interim Closed	WSRF 2009-014 CVP-2009-00004	Sept. 6, 2007	Jul. 23, 2008	Nov. 18, 2008	2,605 BCM	7	Refer to 100-D-42				
100-D-46	Burial Ground	100-DR-2	45.7 x 6.1 x 7.6	1967	This site received radioactive and nonradioactive solid wastes and construction debris from various reactor modifications in the 105-D Reactor.	Interim Closed	WSRF 2000-115 CVP-2000-00010	Oct. 21, 1999	Jul. 11, 2000	Jul. 26, 2000 to Aug. 2, 2000	10,987	4.6	Americium-241	0.150 U	4.32	0.173	1.12
													Cobalt-60	0.043 U	7.81	0.0351	6.3
													Cesium-137	1.28	409	0.724	324
													Europium-152	0.348	193	0.248	157
													Europium-154	0.15 U	15.8	0.109	12.8
													Plutonium-239/240	0.02 U	19	0.0797	8.76
													Strontium-90	0.315 J	36.8	0.202	19.1
													Uranium-238	0.607 J	0.56	0.476	0.437
													Hexavalent Chromium	0.61	4.7	0.61	2.6
100-D-47	Burial Ground	100-DR-2	69.5 x 57.0	Not Documented	The site is a burial ground used to dispose of waste during Project CG-558 rod burial.	Interim Closed	WSRF 2009-002 CVP-2009-00002	Jan. 16, 2008	Mar. 20, 2008	Nov. 25, 2008	2,800 bank cubic meters	could not find in CVP, but only lists data for shallow zone.	Americium-241	.277 U	/	/	/
													Carbon-14	.792 U	/	/	/
													Cesium-137	0.687	/	0.032	/
													Cobalt-60	0.604	/	0.144	/
													Europium-152	1.52	/	0.065	/
													Europium-155	0.125 U	/	/	/
													Nickel-63	36.2	/	1.24	/
													Plutonium-238	.06 U	/	/	/
													Plutonium-239/240	.18 U	/	/	/
													Strontium-90	1.18	/	0.233	/
													Uranium-233/234	0.653	/	.599(<BG)	/
													Uranium-235	.087 U	/	.046(<BG)	/
													Uranium-238	0.664	/	.554(<BG)	/
													Antimony	1.3 UJ	/	/	/
													Arsenic	4.6	/	3(<BG)	/
													Barium	87.6	/	75.2(<BG)	/
													Beryllium	0.6	/	.5(<BG)	/
													Boron	1.9	/	1.4	/
													Cadmium	0.3	/	.2(<BG)	/
													Chromium Total	16.1	/	12.2(<BG)	/
													Hexavalent Chromium	0.32	/	/	/
													Cobalt	9.5	/	8.0(<BG)	/
													Copper	19.6	/	15.1(<BG)	/
													Lead	5.1	/	4.1(<BG)	/
													Manganese	374	/	339(<BG)	/
													Molybdenum	.6 B	/	0.5	/
													Nickel	12.4	/	11.3(<BG)	/
													Selenium	1	/	/	/
													Silver	0.4 U	/	/	/
													Vanadium	85.7	/	70.7(<BG)	/
													Zinc	58	/	49.4(<BG)	/
100-D-48:1	Radioactive Process Sewer	100-DR-1	Varies	1944-1967	This subsite is the section of the pipelines that transported radioactive treated and untreated wastewater runs from the 116-D-7 Retention basin to the Outfalls.	Interim Closed	WSRF 2000-126 CVP-2000-00003	Dec. 28, 1998	Jul. 24, 2000	Apr. 3, 2000 to Aug. 8, 2000	107,266	6	Cobalt-60	0.061 U	7.33	0.05	5.29
													Cesium-137	0.809	39.5	0.251	28.2
													Europium-152	0.402	64.2	0.3	34.2
													Europium-154	0.15 U	8.01	0.12	4.25
													Plutonium-239/240	0.24 U	1.31	0.13	0.449
													Strontium-90	0.196 J	1.14	0.15	0.607
													Uranium-233/234	0.713 J	0.933 J	0.5	0.57
													Uranium-238	0.676 J	0.873 J	0.42	0.554
													Hexavalent Chromium	0.64 U	5	0.64	5
100-D-48:2	Radioactive Process Sewer	100-DR-1	Varies	1944-1967	This section of two parallel pipelines that transported radioactive treated and untreated wastewater and runs from D Avenue to the 116-D-7 Retention basin.	Interim Closed	WSRF 2000-064 CVP-2000-00005	Jul. 1997	Aug. 1999	Aug. 23, 1999 to Oct. 20, 1999	57,106	6	Cobalt-60	0.154	7.58	0.0437[c]	1.72[c]
													Cesium-137	40.6	61.6	0.499[c]	7,530[c]
													Europium-152	2.21	24.4	0.4[c]	327[c]
													Europium-154	0.894	2.93	0.11[c]	1.44[c]
													Plutonium-239/240	0.046	0.63 J	0.04[c]	0.103[c]
													Strontium-90	0.42	1.77 J	0.21[c]	0.692[c]
													Uranium-233/234	0.748	0.854 J	0.47[c]	0.49[c]
													Uranium-238	0.783	8.06 J	0.45[c]	0.52[c]
													Hexavalent Chromium	0.42	3.65	0.42[c]	1.3[c]
100-D-48:3	Radioactive Process Sewer	100-DR-1	Varies	1944-1967	This subsite is the last section of the 105-D Reactor effluent pipelines, extending south from D Avenue to about 1.5 meters (5 feet) from the wall	Interim Closed	WSRF 2001-004 CVP-2000-00034	Oct. 28, 1999	Jul. 24, 2000	June 7 to Oct. 4, 2000	55,561	5.7	Cobalt-60	0.053 U	0.059 U	0.4	0.05
													Cesium-137	4.31	2.82	0.632	1
													Europium-152	0.261	0.848	0.12	0.604
													Europium-154	0.180 U	0.18 U	0.13	0.161

Table E1. Waste Site Description and History with Associated Interim Action Closeout Data

Site Code	Site Type	Operable Unit	Site Dimensions (m)	Dates of Operation	Site History	Class Status	Decision/ Closeout 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	Maximum Concentration (pCi/g, mg/kg) Shallow[a]	Maximum Concentration (pCi/g, mg/kg) Deep[b]	95% UCL (pCi/g, mg/kg) Shallow[a]	95% UCL (pCi/g, mg/kg) Deep[b]
					of the reactor foundation. The Decontamination and Decommissioning project is responsible for the remaining stub as								Plutonium-239/240	0.078 J	0.697 J	0.06	0.126
													Strontium-90	2.7	4.59	0.491	0.121
													Uranium-233/234	0.782 J	0.711 J	0.52	0.411
													Uranium-238	0.669 J	0.473 J	0.51	0.382
													Hexavalent Chromium	0.94	0.93	0.94	0.53
100-D-48:4	Radioactive Process Sewer	100-DR-1	Varies	1944-1967	This subsite includes many small drain pipelines that were used to dispose of radioactive cooling water from the 105-D Reactor Building and terminate at the 132-D-3 (1608-D) Building site. The pipelines that run from the 105-D Reactor and the 132-D-3 (1608-D) Building, to either the 116-D-1A/1B Trenches or connect to the main cooling water effluent pipelines, are also part of this subsite.	Interim Closed	WSRF 2000-133 CVP-2000-00033	Oct. 28, 1999	Oct. 18, 2000	Sept. 11 to Oct. 18, 2000	27,738	7 *No distinction between shallow and deep zone because few areas were excavated greater than	Cesium-137	1.75	/	0.419	/
													Cobalt-60	0.051	/	0.04	/
													Europium-152	0.756	/	0.21	/
													Europium-154	0.16	/	0.12	/
													Plutonium-239/240	0.028	/	0.04	/
													Strontium-90	0.52	/	0.257	/
													Uranium-238	0.684	/	0.54	/
													Hexavalent Chromium	1.9	/	1.9	/
100-D-49:1	Radioactive Process Sewer	100-DR-1	Varies	1950-1967	Subsite consisted of underground pipelines that transported radioactive treated and untreated wastewater from 116-DR-9 to Outfalls.	Interim Closed	WSRF 2000-127 CVP-2000-00003	Dec. 28, 1998	Jul. 24, 2000	Apr. 3, 2000 to Aug. 8, 2000	107,266	6	Cobalt-60	0.061 U	7.33	0.05	5.29
													Cesium-137	0.809	39.5	0.251	28.2
													Europium-152	0.402	64.2	0.3	34.2
													Europium-154	0.15 U	8.01	0.12	4.25
													Plutonium-239/240	0.24 U	1.31	0.13	0.449
													Strontium-90	0.196 J	1.14	0.15	0.607
													Uranium-233/234	0.713 J	0.933 J	0.5	0.57
													Uranium-238	0.676 J	0.873 J	0.42	0.554
													Hexavalent Chromium	0.64 U	5	0.64	5
100-D-49:2	Radioactive Process Sewer	100-DR-1	Varies	1950-1967	Subsite consisted of underground pipelines that transported radioactive treated and untreated wastewater from D Avenue to 116-DR-9.	Interim Closed	WSRF 2000-065 CVP-2000-00005	Jul. 1997	Aug. 1999	Aug. 23, 1999 to Oct. 20, 1999	57,106	6	Refer to 100-D-48:2				
100-D-49:3	Radioactive Process Sewer	100-DR-1	Varies	1950-1967	Subsite consisted of underground pipelines that transported radioactive treated and untreated wastewater from D Avenue to near 105-DR Reactor.	Interim Closed	WSRF 2001-004 CVP-2000-00034	Oct. 28, 1999	Jul. 24, 2000	June 7 to Oct. 4, 2000	55,561	5.7	Refer to 100-D-48:3				
100-D-49:4	Radioactive Process Sewer	100-DR-1	Varies	1950-1967	This section contains the smaller effluent pipelines near the reactor, and the large main effluent pipelines (two adjacent pipes) extending from the reactor. The eastern main effluent pipe section is about 67 meters long; the western section is about 35 meters long	Interim Closed	WSRF 2003-049 CVP-2003-00016 (Sections 1-3)	Sept. 1998	Sept. 19, 2001	Jul. 6-12, 2000	7,220 m3	4.6	Americium-241	0.0483	0.36	0.0152	0.018
													Barium-133	0.062 U	0.058 U	0.0246	0.0247
													Carbon-14	4.84 U	4.5 U	3.65	3.83
													Cesium-137	0.542	2.54	0.444	1.92
													Cobalt-60	0.72 U	0.257	0.0373	0.177
													Europium-152	2.16	8.3	1.36	5.22
													Europium-154	0.24 U	1.06	0.155	0.682
													Europium-155	0.16 U	0.17 U	0.0804	0.0621
													Nickel-63	6.55 U	3.02	1.06	1.93
													Plutonium-238	0.022 U	0.02 U	0.00545	0.00646
													Plutonium-239/240	0.068	0.221	0.02715	0.1218
													Strontium-90	/	0.527	0.218	0.396
													Technetium-99	0.271 U	0.026 U	0.0802	0.000681
													Uranium-233/234	0.548	0.627	<BGc	<BGc
													Uranium-235	0.064 U	0.074	<BGc	<BGc
													Uranium-238	0.577	0.673	<BGc	<BGc
													Hexavalent Chromium	0.41 U	0.44 U	0.41	0.44
													Mercury	0.032	0.04	0.03	0.04
													Lead	9.2	6.7	10	5.5
													Aroclor-1254	0.17	0.036 U	0.17	0.04
100-D-5	Burial Ground	100-DR-1	3 x 3 x 4.3	1950	Site was a former pipeline junction box that was isolated during the tie-in modifications and used to dispose of debris generated during those modifications. construction/demolition debris was found within the former junction box during remediation.	Interim Closed	WSRF 2001-022 CVP-2000-00034	Oct. 28, 1999	Jul. 24, 2000	June 7 to Oct. 4, 2000	55,561	5.7	Refer to 100-D-48:3				

Table E1. Waste Site Description and History with Associated Interim Action Closeout Data

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100-D-50:1	Process Sewer	100-DR-1	1,550 linear m	1950-1965	This subsite is a reinforced concrete pipeline to receive emergency discharges from the 105-DR Reactor and drainage from the 183-DR treatment basins and clearwells. The pipeline ultimately discharged to the former outfall at the 100-D-8 Site.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-50:2	Process Sewer	100-DR-1	Approx. 400 linear m of collocated pipelines	1944-1967	This subsite consists of steel piping used to deliver treated cooling water from the 190-DR Pumphouse to the 105-DR Reactor.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-50:3	Process Sewer	100-DR-1	Approx. 230 linear m of tunnel containing multiple pipelines	1950-1964	This subsite consists of steel piping designed to deliver treated cooling water from the 190-D High bay to the 105-DR Reactor. These lines were designed and constructed under the assumption that the 105-D Reactor would stop operations; with completion of the 100-DR water treatment train, it is not believed that these lines were ever used operationally.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-50:4	Process Sewer	100-DR-1	Approx. 135 linear m of tunnel containing multiple pipelines	1950-1964	This subsite consists of steel gas recirculation piping between the 115-D/DR facility and the 105-DR Reactor. The piping was located in tunnels that have since been demolished, but the disposition of the piping was not well-documented.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-50:5	Process Sewer	100-DR-1	200 m of pipeline Three - 0.15 m drain lines, a .3 m collection line, and a .3 m feeder line.	1950-1964	100-D-50:5 process sewer was located to the south of 183-DR and provided drainage of the 183-DR coagulation and sedimentation basins, and possibly overflow drainage. CrVI was added to cooling water downstream of the coagulation and sedimentation basins. Several surface runoff collection drains also discharged to the subsite.	No Action	WSRF/RSVP-2006-025	Sampling on Nov. 7 and Dec. 28, 2005	N/A	N/A	N/A	<4.6	Cesium-137	U	/	/	/
													Antimony	U	/	/	/
													Arsenic	2.5(<BG)	/	/	/
													Barium	69.6(<BG)	/	/	/
													Beryllium	0.42(<BG)	/	/	/
													Boron	10.9	/	/	/
													Cadmium	0.09(<BG)	/	/	/
													Chromium	7.4(<BG)	/	/	/
													Cobalt	6.4(<BG)	/	/	/
													Copper	14.5(<BG)	/	/	/
													Lead	3.5(<BG)	/	/	/
													Mercury	U	/	/	/
													Manganese	271(<BG)	/	/	/
													Molybdenum	0.24	/	/	/
													Nickel	9.2(<BG)	/	/	/
													Selenium	U	/	/	/
													Uranium	1.54(<BG)	/	/	/
													Vanadium	34.9(<BG)	/	/	/
													Zinc	32.9(<BG)	/	/	/
													Aroclor-1242	U	/	/	/
													Aroclor-1260	U	/	/	/
													DDT, 4, 4'-	U	/	/	/
100-D-50:6	Process Sewer	100-DR-1	120 m x 120 m (Clearwell pad area)	1950-1964	This subsite includes the 183-DR clearwell pads and three functional groups of piping at the 183-DR Clearwells: 1) process piping used to deliver water from the filter building to the clearwells, 2) process piping used to deliver water from the clearwells to 190-DR Pumphouse, and 3) drain piping servicing the clearwells and pumphouse floor drains and discharging to the 100-D-50:1 Emergency Discharge Pipeline.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	CVP-2008-046, Pg. 8 under IN-PROCESS SAMPLING states: "Verification sampling was not conducted at the 126-DR- I Waste Site because it is located entirely above areas planned for remediation (Figure 9). Underlying pipelines are planned for remediation as the 100-D-50:6 waste site. Samples were collected from the 190-DR Clearwell concrete pads and surrounding soils and analyzed for hexavalent chromium (Table 1, Figure 10). The concrete samples were also analyzed by inductively coupled metal analysis. The results show that the surface of the concrete for all four pads is contaminated with hexavalent chromium above direct exposure remedial action goals (RAGs) (Appendix A)." Hex Chrom sample taken on 10/22/2007, results: NE Pad - 2.6 mg/kg SE Pad - 2.9 mg/kg SW Pad - 2.3 mg/kg NW Pad - 3.6 mg/kg				

Table E1. Waste Site Description and History with Associated Interim Action Closeout Data

Site Code	Site Type	Operable Unit	Site Dimensions (m)	Dates of Operation	Site History	Class Status	Decision/ Closeout 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	Maximum Concentration (pCi/g, mg/kg) Shallow[a]	Maximum Concentration (pCi/g, mg/kg) Deep[b]	95% UCL (pCi/g, mg/kg) Shallow[a]	95% UCL (pCi/g, mg/kg) Deep[b]
100-D-50:7	Process Sewer	100-DR-1	Approximately 500 m total pipeline length	1950-1964	This subsite includes the pipelines that provided drainage for the 183-DR coagulation basins, floor drains and catch basins at the 183-DR Head House, and mixing tanks in the vicinity of the 186-D Waste Acid Reservoir. These pipelines ultimately discharged to the 100-D Area process sewer systems.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-50:8	Process Sewer	100-DR-1	110 linear m	1960-1964	This subsite is an asbestos cement pipeline that connected the 117-DR HEPA Filter Building to the 116-DR-8 Seal Pit Crib.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-50:9	Process Sewer	100-DR-1	710 linear m	1950-1964	The 100-D-50:9 site encompasses two functional pipeline groups: (1) the overflow drain line and (2) the residual sanitary sewer lines. both pipeline functional groups discharged into the 100-D-13 septic tank.	Accepted	Mentioned in CVP-2009-00008 (section 3.1.1)	N/A	N/A	N/A	N/A	N/A	From CVP-2009-00008 section 3.1.1: "A concrete junction vault located in the southern portion of the burial ground was opened prior to the start of the burial ground excavation and found to contain a breached 15-cm (6-in.) vitrified clay pipe. The pipeline is part of the 1 00-D-50:9, 1607-DR-3 Sanitary Sewer. The concrete junction vault and pipe located within the excavation were removed for disposal to ERDF."				
100-D-50:10	Process Sewer	100-DR-1	680m of pipe	Uncertain, but is limited to 1947 to 1949.	This subsite consists of the residual cast iron pipelines used to supply potable water to the temporary construction camp southeast of the 105-DR Reactor. The exact operational period of the subsite is uncertain, but is believed to be limited to 1947 to 1949 when the construction camp was in use. The system was supplied with water via the fire protection loop piping, which in turn was supplied by	No Action	WSRF/RSVP-2005-016 Mentioned in CVP 2009-00008 (section 3.1.1)	N/A	N/A	N/A	N/A	N/A	"The evaluation shows that there are no hazardous/dangerous materials present at the subsite and, accordingly, no residual contamination in the soil. Therefore, the current status of the subsite is protective of human health, groundwater, and the Columbia River, and no institutional controls are required." From CVP-2009-00008 section 3.1.1: "A section of the 1 00-D-50:1 0, Potable Water Supply Lines subsite, running east-west crosses the north end of the burial ground. The section of pipe within the excavation was removed and disposed. Another 15-cm (6-in.) pipe, part of the 1 00-D-50:1 0, Potable Water Supply Lines subsite, was found in the east sidewall of the easternmost excavation. The pipeline remains in place."				
100-D-52	French Drain	100-DR-1	1 x 6.71	constructed in 1955	Designed to received condensate or cooling water leakage from the concrete enclosure for the 105-D Downcomer. Volume and inventory are not documented.	Interim Closed	WSRF 2000-107 CVP-2000-00018	Jan-00	Mar-00	Mar. 21, 2000	199	7.6	Cesium-137	0.065 J	/	0.0472[c]	/
													Europium-152	0.099 U	/	0.181[c]	/
													Uranium-233/234	0.576 J	/	0.461[c]	/
													Uranium-238	0.588 J	/	0.451[c]	/
													Chromium Total	7.4 U	/	5.6[c]	/
													Lead	4.3 U	/	3.1[c]	/
100-D-53	Process Unit/Plant	100-DR-2	20.7 x 11.9 x 10.4 high with 2.4 meters above grade.	1960-1964	The ventilation exhaust filter building housed blowers and particulate filters used to treat the ventilation exhaust from the 105-DR Reactor.	Interim Closed	WSRF 2003-053 CVP-2003-00018	Jul. 2003	Jul. 2003	Aug. 8, 2003	14,011	4.6	Refer to 122-DR-1:2				
100-D-54	French Drain	100-DR-2	56 cm x 1.5 m	1982-1986	Drywell near sodium fire facility gravel scrubber. consisted of a 56 cm (28in.) drywell constructed of concrete pipe with a steel cover. Approximately 1.5 m (4.9 ft) deep with a 5 cm (2-in.) pipe entering near the bottom. This drywell may have been a replacement for the 100-D-23 drywell.	Interim Closed	WSRF 2003-053 CVP-2003-00018	Jul. 2003	Jul. 2003	Aug. 8, 2003	14,011	4.6	Refer to 122-DR-1:2				
100-D-55	Depression/Pit (nonspecific)	100-DR-2	50,069.96 m^2	Not Documented	This site is not a waste site. It is a gravel pit used to supply clean fill dirt.	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
100-D-56:1	Product Piping	100-DR-1	272	1945-1950	The pipelines exiting the north side of the 185-D Building were used during the initial dry material handling operations. The pipeline ran from 190-D to 108-D	Interim Closed	WSRF/RSVP-2008-044	12/18/2006	01/10/07	03/25/08	1,885 BCM	2.3		Excavation		Overburden	
														Maximum Shallow	95% UCL Shallow	Maximum Shallow	95% UCL Shallow
													Antimony	1.1(<BG)	/	2.5 (<BG)	/
													Arsenic	/	2.5(<BG)	/	3.5(<BG)
													Barium	/	59.4<BG)	/	70.4(<BG)
													Beryllium	/	0.50(<BG)	/	0.57(<BG)
													Boron	1.6(<BG)	/	24.2	/
													Cadmium	0.26(<BG)	0.16(<BG)	/	0.16(<BG)
													Chromium, total	/	10.5(<BG)	/	10.2(<BG)
													Cobalt	/	7.3(<BG)	/	8.3(<BG)
													Copper	/	14.1(<BG)	/	16.4(<BG)
														0.28	/	0.31	/

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													Lead	/	4.2(<BG)	/	10.2(<BG)
													Manganese	/	289(<BG)	/	327(<BG)
													Mercury	0.02(<BG)	/	0.33	/
													Molybdenum	/	/	/	0.95(<BG)
													Nickel	/	10.8(<BG)	/	11.1(<BG)
													Selenium	1.5	/	2.1	70.4(<BG)
													Vanadium	/	49.3(<BG)	/	58.9(<BG)
													Zinc	/	51.3(<BG)	/	65.8(<BG)
													Chloride	8.5 (<BG)	/	8.5 (<BG)	/
													Fluoride	3.3 (<BG)	/	3.3 (<BG)	/
													Nitrate (as Nitrogen)	6.6	/	16.2	/
													Nitrite (as Nitrogen)	/	/	1.2	/
													Sulfate	19.3(<BG)	95.5 (<BG)	/	95.5 (<BG)
100-D-56:2	Product Piping	100-DR-1	788	1959-1967	The pipelines exited the south side of the 185-D Building to 100-D-12 and continued to the 183-DR building. This pipeline continued to be used after the transition to concentrated liquid sodium dichromate.	Interim Closed	WSRF 2009-016	Jun-06	Feb-07	Jun-11	Not documented	0.3 m below the pipe.		Excavation		Overburden	
														Maximum	95% UCL	Maximum	95% UCL
													Antimony	0.42	/	0.5	/
													Arsenic	/	3.9	/	3.4
													Barium	70.5	67	/	72
													Beryllium	/	1.1	/	1.1
													Boron	3.3	/	/	1.1
													Cadmium	0.14	0.084	/	0.097
													Chromium (total)	29.3	12	/	17
													Cobalt	8.3	8.2	/	7.6
													Copper	/	15	/	16
													Hexavalent chromium	0.662	/	0.55	/
													Lead	/	5.5	/	4.4
													Manganese	300	322	/	311
													Mercury	/	0.01	0.063	/
													Molybdenum	0.3	/	/	/
													Nickel	/	11	/	11
													Vanadium	/	66	/	57
													Zinc	/	46	/	55
													Chloride	13	9.2	/	5.8
													Fluoride	2.3	1.9	1.9	1.9
													Nitrate as Nitrogen	/	2.1	/	1.2
													Nitrite as Nitrogen	/	0.44	/	0.58
													Sulfate	81	/	3.3	/
100-D-57	Crib	100-DR-1	N/A	1955	Through examination of Ground Penetrating Radar results, other documents, and excavation of the 116-DR-9, 100-D-4, and 100-D-49 sites, which effectively removed soil and subsurface structures in this area, it has been determined that 100-D-57 was a duplicate entry for the 100-D-4 site. Therefore, this site was not accepted as	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
100-D-58	Septic Tank	100-DR-2	27.8 x 33 x 1.6	1998-present	Site includes a septic tank, drain field, two-compartment tank, and associated risers supporting MO980.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-59	French Drain	100-DR-1	0.45 (dia.) x 0.25	Not Documented	This french drain received overflow sulfuric acid from railroad car transfer operations. Any waste acid was assumed to be neutralized in the Hanford Site's alkaline soil. Therefore, the site is rejected as a waste site.	Rejected	WSRF 2002-042	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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100-D-6	Burial Ground	100-DR-1	42 x 17	1944-1967	This site received contaminated thimbles and other solid reactor materials (including non-radioactive solid waste and construction debris) related to the ball 3X installation project	Interim Closed	WSRF 2001-005 CVP-2000-00034	Oct. 28, 1999	Jul. 24, 2000	June 7 to Oct. 4, 2000	55,561	5.7	Refer to 100-D-48:3				
100-D-60	Radioactive Process Sewer	100-DR-1	2,294.7 m^2	1944-1967	This site includes the river effluent pipelines (river lines) that extend from the two outfalls in the 100-D/DR area into the main channel of the Columbia River	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-61	Dumping Area	100-DR-1	30 (dia.)	Not Documented	Site was a debris pile that includes treated wood, lead-tipped bolts, and miscellaneous other debris from tearing down electrical utility poles.	Interim Closed	WSRF/RSVP-2008-047	Phase 1 - Nov. 12, 2007	Phase 1 - Jan. 24, 2008	Jun. 18, 2008	Phase 1 = 100 BCM	Phase 1 = 0.3	Arsenic	3.5	/	3.2	/
													Barium	204	/	162	/
													Beryllium	0.55	/	0.51	/
													Boron	16.5	/	11.7	/
													Chromium	11.3	/	10.9	/
													Hexavalent Chromium	2.1	/	/	/
													Cobalt	9.4	/	8.1	/
													Copper	21.7	/	18.2	/
													Lead	5	/	4.8	/
													Manganese	380	/	358	/
													Mercury	0.05	/	/	/
													Molybdenum	0.84	/	/	/
													Nickel	12.6	/	11.6	/
													Selenium	0.98 C	/	/	/
													Vanadium	56.3	/	51.5	/
													Zinc	47	/	45.2	/
													Motor Oil Range Organics	18	/	12	/
													Aroclor-1254	0.0081	/	/	/
													Aroclor-1260	0.015	/	/	/
													benzo(a)anthracene	0.016	/	/	/
													benzo(a)pyrene	0.013	/	0.0059	/
													benzo(b)fluoranthene	0.016	/	0.0077	/
													benzo(ghi)perylene	0.008	/	/	/
													benzo(k)fluoranthene	0.0092	/	0.0054	/
													Chrysene	0.027	/	/	/
													Dibenz[a,h]anthracene	0.015	/	/	/
													Endrin Aldehyde	0.004	/	/	/
													Fluoranthene	0.096	/	0.0417	/
													Fluorene	0.0026	/	/	/
													Phenanthrene	0.0081	/	0.0046	/
													Pyrene	0.043	/	/	/
								Phase 2 - Oct. 13, 2008	Phase 2 - ?	Jan. 21, 2009	Phase 2 = 50 BCM	Phase 2 = 1	Antimony	0.54 B	/	/	/
													Arsenic	4.5 M	/	3	/
													Barium	380	/	164	/
													Beryllium	1.2	/	1	/
													Boron	31	/	11	/
													Chromium	11	/	8.4	/
													Hexavalent Chromium	0.169	/	/	/
													Cobalt	11	/	10	/
													Copper	22	/	18	/
													Lead	6.5	/	4.4	/
													Manganese	380	/	344	/

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													Mercury	0.016 B	/	/	/
													Molybdenum	.70 BC	/	0.56	/
													Nickel	24 L	/	13	/
													Vanadium	75	/	71	/
													Zinc	50 L	/	47	/
													Anthracene	0.0052	/	/	/
													benzo(a)anthracene	0.0068	/	/	/
													benzo(b)fluoranthene	0.011	/	/	/
													benzo(k)fluoranthene	0.0093	/	/	/
													Chrysene	0.016	/	/	/
100-D-62	Septic Tank	100-DR-2	2.1 x 1.2 x 1.8 (septic tank) 8.2 x 4.3 (drain field)	1952-1964	Site serviced the 183-DR building and includes a septic tank with a capacity of 2,271 L (600 gal), a drain field, and related piping.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-63	Product Piping	100-DR-1	Not Documented	1945-present	The site encompasses the clean water pipelines upstream of the 100-D and 100-DR Reactors, including underground pipelines used to transport raw, fire, export, and sanitary water from the river pumphouse, to the water treatment facilities and to 100-D facilities and fire hydrants. Site does not include pipelines that carried water treated with hexavalent chromium. Site also includes pipelines associated with the Plenum Filling Experiment (PFE). The PFE project, a light-water reactor test facility, was cancelled prior to construction. The design of the PFE-related facilities included an above-ground oil pipeline and a process sewer extension. These pipelines are shown on design drawings but were never built. They are included with the 100-D-63 service water pipelines site in order to document that they were never constructed and require no action.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-64	Laboratory	100-DR-2	33.4 m^2	1960-1964 and 1972-1986 (for LSFF operation)	Air sample building for the 116-DR stack exhaust. This prefabricated metal structure housed most of the instrumentation for the Large Sodium Fire Facility Exhaust Air System. Monitoring of the exhaust air was conducted in this building.	Interim Closed	WSRF 2003-053 CVP-2003-00018	Jul. 2003	Jul. 2003	Aug. 8, 2003	14,011	4.6	Refer to 122-DR-1:2				
100-D-65	Outfall	100-DR-1	6.4 (width) x 1.5 (depth)	1944 - 1975 (per 116-D-5)	The site is the concrete spillway (also referred to as a flume) that led from the 116-D-5 Outfall Structure and terminated at the river shoreline. The spillway was an alternate discharge point for the 1904-D Outfall Structure. It was planned to be used only if the 100-D-60 river effluent pipelines were blocked, damaged, or undergoing maintenance. There is no corroborated physical or historical evidence that the spillway was ever used.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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100-D-66	Outfall	100-DR-1	3.7 (width) x 1.5 (depth)	1944 - 1975 (per 116-DR-5)	The spillway was an alternate discharge point for the 116-DR-5 Outfall Structure. It was planned to be used only if the 100-D-60 river effluent pipelines were blocked, damaged, or undergoing maintenance. There is no corroborated physical or historical evidence that the spillway was ever used.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-67	Unplanned Release	100-DR-1	213 x 268	1944-1967	D Island is a small island located near the southeast shore of the Columbia River and opposite the 100-D Reactor operating area. Historically, D Island has been submerged by high river flow. The site consists of soil contamination spread from vent risers that extended from the buried river effluent pipelines (100-D-60). The island is contaminated with particles of Co-60.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-68	Process Unit/Plant	100-DR-2	128.02 x 36.6	1950	The Process Water Pumphouse provided high-volume treated water to the 105-DR Reactor for cooling. The facility contained eight electric primary water pumps that pumped treated water from the clearwell tanks to the reactor. before demolition, all friable asbestos was removed, including all asbestos-containing material and all potential asbestos-containing material from ventilation fan housings, pipes, and loose materials that had fallen to the ground. The above grade portion of the facility was demolished and the below grade portion of the facility was demolished to 1 m (3 ft) below grade. The remainder of the concrete facility was left in place. The two valve houses were also demolished. The water tunnels were left in place and are currently being used as bat habitat.	No Action	WSRF 2005-034 BHI-01771	N/A	N/A	N/A	N/A	N/A	The residual contaminant levels were well below the cleanup standards for the direct exposure and none of the contaminants are predicted to migrate to groundwater within 1,000 years.				
100-D-69	Unplanned Release	100-DR-1	156.1 m^2	Not Documented	This site consists of sodium dichromate contaminated concrete on a foundation. The soil is also potentially contaminated. The source of contamination is unknown.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-7	Dumping Area	100-DR-1	215 x 80, 20 x 11	Not Documented	Solid waste dumping area containing hazardous and nonhazardous waste including vitrified clay pipe, concrete cores, metal paint cans, wood debris, batteries, glass, brick, and mastics.	Interim Closed	WSRF 20011-2005	Dec. 19, 2009	6-Mar-10	20-Sep-10	24,120 BCM	4	Cesium-137	/	/	0.0295	/
													Arsenic	/	/	2.1	/
													Barium	/	/	82.3	/
													Beryllium	/	/	0.2	/
													Boron	1.9	/	1.6	/
													Cadmium	/	/	0.12	/
													Chromium	/	/	9.2	/
													Cobalt	/	/	8	/
													Copper	/	/	16	/
													Hexavalent chromium	0.33	/	0.254	/
													Lead	/	/	5.8	/
													Manganese	/	/	344	/
													Mercury	/	/	0.42	/
													Molybdenum	0.39	/	/	/
													Nickel	/	/	9.9	/
													Selenium	0.87	/	/	/
													Silver	0.71	/	/	/
													Vanadium	/	/	71.3	/

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													Zinc	/	/	46.1	/
													2-butanone	0.0018	/	/	/
													4,4"DDE	/	/	0.56	/
													4-4"DDT	0.0026	/	/	/
													Acetone	/	/	0.0016	/
													Alpha-BHC	0.0022	/	/	/
													Aroclor-1248	0.1	/	/	/
													Aroclor-1254	0.0014	/	/	/
													Aroclor-1260	0.11	/	/	/
													Benzo(b)fluoranthene	0.003	/	/	/
													Benzo(ghi)perylene	0.0028	/	/	/
													Bis(2-ethylhexyl)phthala	1.1	/	/	/
													Dibenz[a,h]anthracene	0.13	/	/	/
													Diethyl phthalate	1.2	/	/	/
													Dimethyl phthalate	0.21	/	/	/
													Endosulfan II	0.00052	/	/	/
													Gamma BHC (Lindane)	0.00085	/	/	/
													Indeno(1,2,3-cd)pyrene	0.0029	/	/	/
													Methylene chloride	0.0022	/	/	/
													Toluene	0.00091	/	/	/
													TPH-diesel range- EXT	6.7	/	/	/
													Xylenes (total)	0.0011	/	/	/
100-D-70	French Drain	100-DR-1	1.22 (dia.)	1968	Site consists of a drywell located on the south side of the former 184-DA Building. It received steam separator discharge from equipment within the former 184-DA Building (demolished).	No Action	WSRF-2010-081	NA	NA	NA	N/A	N/A	Arsenic	1.8	/	/	/
													Barium	99	/	/	/
													Beryllium	0.25	/	/	/
													Cadmium	0.13	/	/	/
													Chromium (total)	11.8	/	/	/
													Cobalt	8.5	/	/	/
													Copper	73.9	/	/	/
													Lead	7.3	/	/	/
													Manganese	340	/	/	/
													Molybdenum	0.39	/	/	/
													Nickel	14	/	/	/
													Vanadium	61.1	/	/	/
													Zinc	78.8	/	/	/
													Chloride	4.5	/	/	/
													Nitrate as Nitrogen	2.2	/	/	/
													Sulfate	46.4	/	/	/
													TPH - diesel range	2	/	/	/
													TPH - diesel range EXT	4.4	/	/	/
100-D-71	Laboratory	100-DR-1	5.5 x 5.5 x 38.1	1957-1984	Site consists of subsurface components of the 195-D Vertical Safety Rod Tower (tower was demolished in 1995). It is unknown if the related components remain in the ground. The site had a 1.2 m- (4-ft-) diameter by 2.2 m- (7-ft-) deep concrete drywell, a below grade pit approximately 30.5 cm (12 in.) square, and a 7.6 cm- (3-in.-) diameter underground cast iron pipe.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-72	Process Unit/Plant	100-DR-1	39 x 0.76	1944-1994	The waste site consists of multiple components on the south side of the 183-D Head House. All activities associated with the waste site are related to the unloading, storage, and use of acid to support water treatment in the 183-D Head House.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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100-D-73	Process Unit/Plant	100-DR-1	47 x 10 (Main Facility) 11 x 10 (extension) 4 x 4 (below grade Elevator Shaft) 2 dp x 1.8 dia. (Acid Mixing Tank)	constructed 1943	Soil and possibly the demolition debris under the former 108-D Building. This building was used to store and mix sodium dichromate.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-74	French Drain	100-DR-1	0.3 m^2	Constructed 1949	A French drain located on the north side of 105-DR Reactor footprint. The dry well was connected to a flash tank located inside the 105-DR Reactor wall by a small-diameter drain line.	No Action	WSRF-2010-083	N/A	N/A	N/A	N/A	N/A	Arsenic	1.5	/	/	/
													Barium	54.3	/	/	/
													Beryllium	0.12	/	/	/
													Chromium (total)	6.4	/	/	/
													Cobalt	8.3	/	/	/
													Copper	13.4	/	/	/
													Lead	2.3	/	/	/
													Manganese	278	/	/	/
													Mercury	0.017	/	/	/
													Molybdenum	0.32	/	/	/
													Nickel	9.5	/	/	/
													Vanadium	57.6	/	/	/
													Zinc	40.9	/	/	/
													Anthracene	0.01	/	/	/
													Benzo(a)pyrene	0.011	/	/	/
													Benzo(b)fluoranthene	0.011	/	/	/
													Benzo(k)fluoranthene	0.0089	/	/	/
													Chrysene	0.016	/	/	/
													Phenanthrene	0.023	/	/	/
													Pyrene	0.04	/	/	/
100-D-75:1	Electrical Substation	100-DR-1	137.6 x 91.25 8.6 x 13.6	1944-present	Site is the 151-D Primary Electrical Substations.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-75:2	Electrical Substation	100-DR-1	137.6 x 91.25 8.6 x 13.6	1944-?	Site is the 152-E1-D Secondary Electrical Substations.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-75:3	Electrical Substation	100-DR-1	9 m x 14	1944-?	Site is the 152-C1-D Secondary Electrical Substations.	No Action	WSRF 2011-036	N/A	N/A	N/A	N/A	N/A	Arsenic	2	/	/	/
													Barium	60.5	/	/	/
													Cadmium	0.076	/	/	/
													Chromium (total)	5.9	/	/	/
													Cobalt	8.7	/	/	/
													Copper	18	/	/	/
													Lead	5	/	/	/
													Manganese	297	/	/	/
													Mercury	0.017	/	/	/
													Molybdenum	0.35	/	/	/
													Nickel	11.1	/	/	/
													Vanadium	52.7	/	/	/
													Zinc	39.6	/	/	/
													TPH - diesel range EXT	2400	/	/	/

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100-D-76	Crib	100-DR-1	Estimated to range from 1 m in dia. and 1.5 m deep to 2.4 x 2.4, to 5 m deep.	1951-1967	The waste site is either a French drain or crib, formerly known as 116-D-3. Historical documentation, a construction drawing, and ground-penetrating radar results indicate Waste Site 116-D-3 probably remains near the southeast corner of the 108-D Building. This site may have received 0.08 Ci of Cs-134 and 30,000 L (7,925 gal) of effluent.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-77	Process Unit/Plant	100-DR-2	40.9 x 10.6 (Acid facility) 34 x 24 (Head House) 112.5 x 58.5 x 6 (basins) 171 x 15 (Filter Plant) 9.3 x 8.3 (Sample Room)	1952-1964	The waste site consists of the 183-DR Acid Facility, 183-DR Head House, the six 183-DR Flocculation basins, the six 183-DR Sedimentation basins, and the 183-DR Filter Building, all of which were components of the cooling water treatment system that supported the 105-DR Reactor. These components are of interest because they stored, mixed, or processed liquid contaminants of concern, especially sodium dichromate and sulfuric acid.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-78	Dumping Area	100-DR-2	66 x 4 x 1.2 65 x 9 x 1.2 1 x 1 2 x 2	Not Documented	Site consists of four areas of yellow stained soils between the 183D and 186-D Buildings. The staining is in the vicinity of the acid trench and waste acid reservoir.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-79	Dumping Area	100-DR-1	88 x 21.6 151.7 x 39.5	Not Documented	This site consists of two areas of posted soil contamination areas within 100-D	Rejected	WSRF 2009-052 plus attachment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-8	Outfall	100-DR-1	728.4 m^2	1949-1968	Constructed in 1949 as a spillway for an emergency discharge for the DR Reactor. consisted of a 1.8 m- (72in.-) diameter reinforced-concrete pipe. The pipe discharged into a concrete box flume that spilled onto a grouted riprap surface and extended about 13.1 m (43 ft) beyond the low water level of the	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-80:1	Dumping Area	100-DR-1	Area 1: 0.6096 x 6.4 (dia.) Area 2 & 3: 1 x 1 & 1 x 2	Not Documented	This subsite consists of three areas. Area 1 was identified on April 10, 2006 as a single broken light bulb. Area 2 contained a tar-like material with a fiber matrix and was identified on April 11, 2006. Area 3 is classified as a tar-and oil-stained area and was	No Action	WSRF-2010-079	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-80:2	Dumping Area	100-DR-1	1 x 1	Not Documented	This subsite consists of Area 4, which contained a small wooden structure containing piping. This structure is believed to be a valve box cover, possibly to prevent freezing pipes during the winter months. A raw water pipeline was known to have existed in	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-81	Dumping Area	100-DR-1	8.6 x 9.9 11.3 x 20.5 5.8 x 9.3 10.5 x 41 11 x 16 2.4 x 2.5 2.4 x 2.5	Not Documented	This site consists of eight areas that contain burned areas, stained soil, scattered concrete, oil staining, and quartz sand.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-82	Dumping Area	100-DR-1	29.5 x 31.5 31.9 x 21.3 3.9 x 3.9	Not Documented	The site consists of three areas of garnet sand.	No Action	WSRF/RSVP-2010-076	N/A	N/A	confirmatory sampling done in Aug. 2010	N/A	N/A	Arsenic	1.9	/	/	/
													Barium	27.8	/	/	/
													Beryllium	0.092	/	/	/
													Cadmium	0.049	/	/	/

Table E1. Waste Site Description and History with Associated Interim Action Closeout Data

Site Code	Site Type	Operable Unit	Site Dimensions (m)	Dates of Operation	Site History	Class Status	Decision/ Closeout 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	Maximum Concentration (pCi/g, mg/kg) Shallow[a]	Maximum Concentration (pCi/g, mg/kg) Deep[b]	95% UCL (pCi/g, mg/kg) Shallow[a]	95% UCL (pCi/g, mg/kg) Deep[b]
													Chromium Total	8.3	/	/	/
													Cobalt	5.4	/	/	/
													Copper	8.7	/	/	/
													Lead	134	/	/	/
													Manganese	164	/	/	/
													Molybdenum	0.29	/	/	/
													Nickel	6.9	/	/	/
													Vanadium	17.8	/	/	/
													Zinc	37.5	/	/	/
													Aroclor-1260	0.0035	/	/	/
100-D-83:1	Product Piping	100-DR-1	Not Documented	1952-1964	This subsite consists of the pipeline segments associated with the 100-D-77 (183-DR Acid Facility) and includes low pressure steam, sulfuric acid, and lime slurry. The majority of the pipeline segments were contained in the acid pipe trench.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-83:2	Product Piping	100-DR-1	Not Documented	1950-1964	This subsite consists of the 183-DR water reducing valve pit and three pipeline segments.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-83:3	Product Piping	100-DR-1	Not Documented	Not Documented	This subsite consists of the pipeline segments associated with the 108-D Acid Addition Facility (100-D-101) and includes the sulfuric acid pipeline and a process sewer.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-83:4	Product Piping	100-DR-1	Not Documented	Not Documented	This subsite consists of the treated water pipeline segments that were not addressed by 100-D-83:1, 100-D-83:2 and 100-D-83:3. They include piping associated with the 186-D Acid Neutralizing System, sulfuric acid and sodium silicate supply lines to the 190-D building, reused water return lines at the 190-D building and an elevated storage tank drain line south of the 105-DR Reactor Building.	No Action	WSRF-2010-093	N/A	N/A	N/A	N/A	N/A	Antimony	0.55	/	/	/
													Arsenic	4.8	/	/	/
													Barium	62.4	/	/	/
													Beryllium	0.12	/	/	/
													Cadmium	0.052	/	/	/
													Chromium (total)	7.8	/	/	/
													Cobalt	8.2	/	/	/
													Copper	18.4	/	/	/
													Cr-VI	0.174	/	/	/
													Lead	8.6	/	/	/
													Manganese	284	/	/	/
													Mercury	0.95	/	/	/
													Molybdenum	0.44	/	/	/
													Nickel	10.9	/	/	/
													Vanadium	76.1	/	/	/
													Zinc	49.1	/	/	/
													Chloride	5	/	/	/
													Fluoride	1	/	/	/
													Nitrate as Nitrogen	1.6	/	/	/
													Nitrate and Nitrite as Nitrogen	2.5	/	/	/
													Sulfate	17.2	/	/	/

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100-D-83:5	Product Piping	100-DR-1	Not Documented	Not Documented	This subsite consists of the treated water pipeline segments that were associated with the 186-D Acid Neutralization System and the reactor cooling water piping between the 190-D building and the 105-D Reactor.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-84:1	Sanitary Sewer	100-DR-1	Not Documented	Not Documented	This subsite consists of piping from two areas. Area 1 includes 15 pipeline segments south of the 105-DR Reactor Building. They were the result of temporary construction in 1947 to modify the 100-D Area buildings. Area 2 includes one pipeline segment and two manholes northwest of the 105-D Reactor Building. They carried waste from various buildings to the sanitary sewer main.	No Action	WSRF 2010-102	N/A	N/A	N/A	N/A	N/A			/	/	/
													Arsenic	2.5			
													Barium	74.7	/	/	/
													Beryllium	0.3	/	/	/
													Boron	1.5	/	/	/
													Cadmium	0.058	/	/	/
													Chromium (total)	11.9	/	/	/
													Cobalt	11.8	/	/	/
													Copper	15.2	/	/	/
													Lead	31.3	/	/	/
													Manganese	343	/	/	/
													Mercury	0.13	/	/	/
													Molybdenum	0.39	/	/	/
													Nickel	11.8	/	/	/
													Vanadium	94.4	/	/	/
													Zinc	52.5	/	/	/
													Chloride	8.5	/	/	/
													Fluoride	1.1	/	/	/
													Nitrate and Nitrite as Nit	12.8	/	/	/
													Sulfate	16.4	/	/	/
													Diethyl phthalate	72	/	/	/
													Anthracene	33	/	/	/
													Benzo(a)anthracene	69	/	/	/
													Benzo(a)pyrene	57	/	/	/
													Benzo(b)fluoranthene	78	/	/	/
													Benzo(ghi)perylene	19	/	/	/
													Benzo(k)fluoranthene	25	/	/	/
													Chrysene	85	/	/	/
													Indeno(1,2,3-cd)pyrene	67	/	/	/
													Phenanthrene	64	/	/	/
													Pyrene	130	/	/	/
													Aroclor-1260	7	/	/	/
100-D-84:2	Sanitary Sewer	100-DR-1	Area 3 pipeline: 87.56 m ling and 20.32 cm in diam. Area 4 pipeline: 40.13 m long and is 15.24 cm in diam.	Not Documented	This subsite consists of piping from two areas. Area 3 includes one pipeline segment that carried waste from the 1607-D2 septic tank to the drain field. Area 4 includes one pipeline segment that carried waste from the 181-D River Pump House to the 1607-D5 Septic Tank..	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-85:1	Radioactive Process Sewer	100-DR-1	Not Documented	1950-1964 (105-DR Reactor Operation Dates)	This subsite consists of one pipeline segment that connected the influent lines (100-D-48:2 and 100-D-49:2) between the 107-D and 107-DR Retention basins. The effluent pipelines were used to transport radioactive cooling and waste water from the reactor facility to the	No Action	WSRF-2010-080	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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100-D-85:2	Radioactive Process Sewer	100-DR-1	Not Documented	1950-1964 (105-DR Reactor Operation Dates)	This subsite consists of sixteen reactor effluent pipe segments. The pipelines carried process water and steam condensate collected the 105-DR Reactor building then discharged to the 1608-DR Waste Water Pumping House (132-DR-1) where it was pumped to the main effluent pipeline (100-D-49:3). Many of the 100-D-85:2	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-86:1	Process Sewer	100-DR-1	Not Documented	1944-1967 (105-D Reactor Operation Dates)	This subsite consists of the steel gas recirculation piping in the subsurface tunnel between the former 115-D Gas Recirculation Facility and the 105-D Reactor. Features of the subsite include a pipeline, pipe tunnel, and vacuum and pressure seal pit. The 115-D/DR Gas Recirculation Facility and adjoining tunnels were decommissioned by UNC Nuclear Industries in 1985 and 1986.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-86:2	Process Sewer	100-DR-1	Not Documented	1944-1967 (105-D Reactor Operation Dates)	This subsite consists of 30 process sewer pipelines associated with the 105-D, 105-DR and 190-DR buildings. Process drainage piping was provided throughout the 105-D Building to carry water from floor drains, steam traps, sumps and trenches to the process sewer.	No Action	WSRF 2010-104	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-86:3	Process Sewer	100-DR-1	Not Documented	1950-1964 (105-DR Reactor Operation Dates)	The subsite consists of process sewer pipelines that received waste from the 105-DR Fan Room floor drains and condensate.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-87	Dumping Area	100-DR-1	57 x 5	1945	The waste site is a surface liquid spill near the acid railroad car spot. A liquid discharge occurred in 1945 at the railroad car spot. The liquid is believed to be acid. No evidence of a spill or stained ground was observed during the orphan site field walkdown conducted in 2006.	No Action	WSRF/RSVP-2010-078	N/A	N/A	confirmatory samples taken on Aug. 9, 2010	N/A	N/A	Arsenic	7	/	/	/
													Barium	89.2	/	/	/
													Beryllium	0.18	/	/	/
													Boron	2.4	/	/	/
													Cadmium	0.45	/	/	/
													Chromium Total	9.3	/	/	/
													Cobalt	7.6	/	/	/
													Copper	16.8	/	/	/
													Lead	19.3	/	/	/
													Manganese	304	/	/	/
													Mercury	0.016	/	/	/
													Molybdenum	0.38	/	/	/
													Nickel	11.8	/	/	/
													Vanadium	48	/	/	/
													Zinc	83.6	/	/	/
													Sulfate	21.2	/	/	/
													benzo(a)anthracene	0.045	/	/	/
													benzo(a)pyrene	0.055	/	/	/
													benzo(b)fluoranthene	0.12	/	/	/
													benzo(ghi)perylene	0.045	/	/	/
													Chrysene	0.064	/	/	/
													Fluoranthene	0.041	/	/	/
													Indeno(1, 2, 3-	0.036	/	/	/
													Pyrene	0.055	/	/	/
100-D-88	Product Piping	100-DR-1	111.5	Not Documented	Site consists of various miscellaneous pipeline segments.	No Action	WSRF 2010-097	N/A	N/A	N/A	N/A	N/A	Antimony	0.51	/	/	/
													Arsenic	2.1	/	/	/
													Barium	105	/	/	/
													Beryllium	0.27	/	/	/
													Boron	0.93	/	/	/
													Chromium (total)	10.4	/	/	/
													Cobalt	11.5	/	/	/
													Copper	29.2	/	/	/
													Hexavalent chromium	0.3	/	/	/

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													Lead	4.4	/	/	/
													Manganese	384	/	/	/
													Mercury	0.012	/	/	/
													Molybdenum	0.3	/	/	/
													Nickel	10.4	/	/	/
													Vanadium	104	/	/	/
													Zinc	63.9	/	/	/
													Chloride	2.7	/	/	/
													Fluoride	1.9	/	/	/
													Nitrate and Nitrite as Nit	2.8	/	/	/
													Sulfate	27.4	/	/	/
													TPH - diesel range EXT	15000	/	/	/
													Aroclor-1260	2.9	/	/	/
100-D-89	Dumping Area	100-DR-2	0.2 x 1.5 (height)	Not Documented	This site consists of two surface debris areas containing abandoned electrical components. The surface debris observed consisted of a downed electrical utility pole and an electrical service box. The electrical box was used as a junction box and should not have contained PCBs. This site is recommended for transition to WCH Miscellaneous Restoration upon completion of the deposition through	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
100-D-9	Storage Tank	100-DR-1	18.10 m^2	1967-1985	Former location of an UST for fuel oil for the 184-DA boiler House. Site was excavated in 1994 to confirm tank removal and determine no soil contamination existed.	Interim Closed	WSRF/RSVP-2006-030	N/A	N/A	confirmatory sampling done on Jan. 4, 2006	N/A	N/A	Arsenic	1.2 (<BG)	/	/	/
													Barium	63.8 (<BG)	/	/	/
													Beryllium	0.47 (<BG)	/	/	/
													Boron	0.82	/	/	/
													Cadmium	0.17 (<BG)	/	/	/
													Chromium	3.5 (<BG)	/	/	/
													Cobalt	8.6 (<BG)	/	/	/
													Copper	14.3 (<BG)	/	/	/
													Lead	2 (<BG)	/	/	/
													Manganese	299 (<BG)	/	/	/
													Molybdenum	0.45	/	/	/
													Nickel	9.1 (<BG)	/	/	/
													Vanadium	67.3 (<BG)	/	/	/
													Zinc	43.1 (<BG)	/	/	/
													Di-n-butylphthalate	0.025	/	/	/
													Acetone	0.007	/	/	/
100-D-90	Unplanned Release	100-DR-1	1.82 x 6.09	1944-2003	The site is the soil located below two transformers sitting on railroad ties located west of the 183-D Facility. They are identified as C4814E and C4815E. They were removed from service in 2003 and drained in 2005 by Fluor Electrical Utilities group. The transformers contained oil with <499 ppm of PCBs and the site has the potential to contain PCBs. However, there was no signs of stained soil.	No Action	WSRF/RSVP-2009-050	N/A	N/A	confirmatory samples taken on Aug. 17, 2010	N/A	N/A	Samples were tested only for PCBs, which were all non-detects.				
100-D-91	Dumping Area	100-DR-1	4 pallets each 1.2 x 1.2 m	Not Documented	Location consists of 4 pallets of staged, abandoned electrical components, each pallet is 1.2 m by 1.2 m. Site was visited in 2006 and photographed in support of the Orphan Site Evaluation as a Miscellaneous Restoration item. There were no signs of soil staining and there were no transformers or other PCB containing items on the pallets	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
100-D-92	Storage Tank	100-DR-1	12.2 x 4.5 x 0.6	Not Documented	This site is the location of an underground concrete utility encasement and underlying soil located approximately 0.9 m below a rail line.	Rejected	WSRF 2009-048	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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100-D-93	Storage Tank	100-DR-1	12.2 x 4.5 x 0.6	1944-?	This site is the location of an underground concrete utility encasement and underlying soil located below a rail line. The site originally was reported as part of a geophysical investigation as a potential UST. A detailed spatial analysis was conducted, and it determined the feature was a known piping encasement below the railroad tracks.	Rejected	WSRF 2009-003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-94	Depression/Pit (nonspecific)	100-DR-2	1.82 x 1.82 x 1.82	Not Documented	The site consists of an area of suspect chromium contamination observed in a pit under the DR Water Tower. This site served as a valve pit for process water stored in the 187-DR Water Tower. The water tower provided emergency cooling water to the 105-DR Reactor.	No Action	WSRF 2010-084	N/A	N/A	N/A	N/A	N/A	Aluminum	5920	/	/	/
													Antimony	0.45	/	/	/
													Arsenic	2.1	/	/	/
													Barium	59.8	/	/	/
													Beryllium	0.2	/	/	/
													Chromium (total)	9	/	/	/
													Cobalt	6.3	/	/	/
													Copper	12	/	/	/
													Lead	24.7	/	/	/
													Manganese	275	/	/	/
													Mercury	0.58	/	/	/
													Nickel	10	/	/	/
													Vanadium	40.2	/	/	/
													Zinc	38.7	/	/	/
													Chloride	2.7	/	/	/
													Fluoride	1.1	/	/	/
													Nitrate as Nitrogen	1.8	/	/	/
													Nitrate/Nitrite	2.7	/	/	/
													Sulfate	10.9	/	/	/
100-D-95	Septic Tank	100-DR-1	67.0 (sewer line)	Not Documented	This is the site of what is believed to have been two septic tanks and a tile field.	Rejected	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-96	French Drain	100-DR-1	Diameters range from 0.45 to 0.91 m	Not Documented	The site consists of seven French drains, one dry well location, and their underlying soil. Each of the facilities with which the French drains are associated were nonradioactive facilities.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-97	Storage Tank	100-DR-1	2.0 x 1.25	1968-1995	This site consists of the underlying soil, a potential fuel UST, and associated fuel oil supply and fuel oil return piping (1.27 cm- [1.5-in.-] diameter). It is believed that these items were removed in 1985/1986 as part of the 100-D/DR general demolition efforts. It now appears as a cobble-covered field with vegetation	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-98:1	Electrical Substation	100-DR-1	Concrete pads varied from 0.61 to 2.1 m wide, and from 0.9 to 6.4 m long	1944-present	This site consists of two active (C4S17 and 152-D1-D) and underlying soil. The active substations are associated with the 181-D and 182-D facilities.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-D-98:2	Electrical Substation	100-DR-1	Concrete pads varied from 0.61 to 2.1 m wide, and from 0.9 to 6.4 m long	1944-present	This site consists nine-teen former distribution and secondary electrical substations and underlying soil.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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100-D-99	Septic Tank	100-DR-1	Not Documented	1944-?	The site is a possible septic system and the underlying soils. Based on a 1944 photo of a fenced area between two buildings it was concluded that the area contained a septic system. It was common practice to install a fence around septic tanks or drain fields.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
116-D-1A	Trench	100-DR-1	39.6 x 3.05 x 1.83 deep Depth at this site also reported to be 3 m and 6.4 m	1947-1952	Received 200,000 L (52,834 gal) of contaminated water and sludge from the 118-D-6 Fuel Storage basin; 1,000 kg (2,200 lb) of sodium dichromate; 4.7 Ci.	Interim Closed	WSRF2000-115 CVP-2000-00010	Oct. 21, 1999	Jul. 11, 2000	Jul. 26, 2000 to Aug. 2, 2000	10,987	4.6	Americium-241	0.150 U	4.32	0.173	1.12
													Cobalt-60	0.043 U	7.81	0.0351	6.3
													Cesium-137	1.28	409	0.724	324
													Europium-152	0.348	193	0.248	157
													Europium-154	0.15 U	15.8	0.109	12.8
													Plutonium-239/240	0.02 U	19	0.0797	8.76
													Strontium-90	0.315 J	36.8	0.202	19.1
													Uranium-238	0.607 J	0.56	0.476	0.437
													Hexavalent Chromium	0.61	4.7	0.61	2.6
116-D-1B	Trench	100-DR-1	39.6 x 3.05 x 6.4 deep Depth at this site also reported as 1.8 and 5 m	1953-1967	Received 8,000,000 L (2,113,376 gal) of contaminated water and sludge from the 118-D-6 Fuel Storage basin. Radiological inventory is 2.6 Ci.	Interim Closed	WSRF2000-115 CVP-2000-00010	Oct. 21, 1999	Jul. 11, 2000	Jul. 26, 2000 to Aug. 2, 2000	10,987	4.6	Americium-241	0.150 U	4.32	0.173	1.12
													Cobalt-60	0.043 U	7.81	0.0351	6.3
													Cesium-137	1.28	409	0.724	324
													Europium-152	0.348	193	0.248	157
													Europium-154	0.15 U	15.8	0.109	12.8
													Plutonium-239/240	0.02 U	19	0.0797	8.76
													Strontium-90	0.315 J	36.8	0.202	19.1
													Uranium-238	0.607 J	0.56	0.476	0.437
													Hexavalent Chromium	0.61	4.7	0.61	2.6
116-D-10	Pond	100-DR-1	10.7 x 6.7 x 0.9 (West) 15.2 x 7.3 x 1.2 (East)	1984	The unit consists of two open excavated pits (ponds) with a crossover channel connecting them. The small size of the excavation (west pond) only allowed for the discharge of one holding tank per day 75,708 L (20,000 gal). The east pit (pond) was larger, to support an increase in discharge capacity. The unit received processed water from the 105-D Fuel Storage basin.	Interim Closed	WSRF/RSVP-2009-042	Apr. 24, 2008	May. 13 or 16, 2008	Jul. 2009	2,400 or 2,700 BCM	4.6 or 5		Excavation		Staging Pile	
														Maximum	95% UCL	Maximum	95% UCL
													Cesium-137	0.146	0.059	0.079	0.028
													Strontium-90	3.25	0.336	0.893	0.137
													Uranium-233/234	0.653	0.495	0.784	0.514
													Uranium-238	0.58	0.495	0.708	0.492
													Antimony	0.496 JB	0.444	0.484	0.484
													Arsenic	3.42	2.65	2.76	2
													Barium	90.1	70.1	67.2	60.6
													Beryllium	0.314	0.229	0.194	0.17
													Boron	1.65	1.24	1.22 B	0.882
													Cadmium	0.121 B	0.109	0.112 B	0.0987
													Chromium Total	11.6	9.3	7.32	5.98
													Cobalt	10.1	8.46	9.34	8.88
													Copper	20.4	15.3	14.4	13.9
													Hexavalent Chromium	0.24	0.179	0.200 B	0.152
													Lead	4.26	3.47	3.74	2.91
													Manganese	398	323	345	318
													Mercury	/	/	0.0153	0.0153
													Molybdenum	0.497 B	0.383	0.432 B	0.413
													Nickel	13.9	11	11.3	8.79
													Silver	/	/	0.201	0.154
													Vanadium	82.9	67.7	81.8	76
													Zinc	52.7	44.5	47.2	45.7
116-D-2	Crib	100-DR-1	3.1 x 3.1 x 3.1	1950-1956	Site was used to isolate coolant flow from process tubes containing ruptured fuel elements. Effluent volume received is 4,000 L (1,057 gal). Inventory includes 0.004 kg (0.008 lb) of sodium dichromate.	Interim Closed	WSRF 2000-098 CVP-2000-00013	Nov. 1, 1999	Nov. 2, 1999	Jan. 3, 2000	623	3	Americium-241	0.33 U	/	0.274[c]	/
													Cobalt-60	0.33 U	/	0.041[c]	/
													Cesium-137	0.068	/	0.057[c]	/
													Europium-152	0.29 U	/	0.096[c]	/
													Europium-154	0.26 U	/	0.126[c]	/
													Plutonium-238	0.054 U	/	0.109	/
													Plutonium-239/240	0.019 U	/	0.088[c]	/
													Strontium-90	0.06 U	/	0.175[c]	/
													Uranium-233/234	0.64 J	/	0.514[c]	/
													Uranium-238	0.644 J	/	0.457[c]	/
													Hexavalent Chromium	0.43 U	/	0.43 U[c]	/

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116-D-3	Crib	100-DR-1	2.44 x 2.44 x 2.44	1951-1967	116-D-3 has been investigated at all historically reported locations by excavation. No evidence of a structure or contamination (using field instruments) was found. It has been determined that 116-D-3 is actually the same site as 116-D-4. Remediation of 116-D-4 was complete on 10/2/99. Therefore, the crib is identified as a no-action site. The crib was suspected of receiving low-level fission product wastes in contaminated wash water from the 108-D Shipping Cask Handling Facility.	No Action	WSRF 2002-060 (replaces WSRF 2000-02)	N/A	N/A	N/A	N/A	N/A	WSRF 2000-02 states that 116-D-3 is actually the same site as 116-D-4. Remediation of 116-D-4 took place on Oct. 20-21, 1999. It also lists the site as rejected. WSRF 2002-060 states that neither 116-D-3 or 116-D-4 have been able to be located based on data, lists as No Action.				
116-D-4	Crib	100-DR-1	2.4 x 2.4 x 5 0.9 x 1.7 also reported	1956-1967	This site is also described as a rock-filled French drain. Received 30,000 L (7,925 gal) of contaminated liquid from the 108-D Maintenance and Technical Laboratory. contaminated effluent also included decontamination solutions, solvents, and low-level fission products.	Interim Closed	WSRF 2000-067 CVP-2000-00008	10/20/1999	10/21/1999	Jan 3-4, 2000	Not documented	2.8	Uranium-238	0.668 J		0.417	
													Hexavalent Chromium	0.43 U		0.43 U	
116-D-5	Outfall	100-DR-1	18.3 x 7.3	1944-1975	Structure was an open concrete compartmentalized weir structure located at the top of the riverbank west of the 107-D Retention basin. Received effluent from the retention basins before release to the Columbia River.	Interim Closed	WSCF-2010-12	Feb-09	Mar-01	Mar-11	2275 BCM	11	Cesium-137	/	/	0.373735051	1.02117093
													Europium-152	/	/	0.254647862	0.44932277
													Strontium-90	/	/	/	0.12952767
													Nickel-63	/	/	2.301388279	/
													Plutonium-239/240	/	/	0.012407112	/
													Uranium-233/234	/	/	0.646269082	0.53066336
													Uranium-238	/	/	0.63893868	0.57171482
													Antimony	/	0.438	/	/
													Arsenic	/	/	2.86	3.08
													Barium	/	/	63.5	72.3
													Beryllium	/	/	0.21	0.255
													Boron	/	/	1.16	0.934
													Cadmium	/	/	0.0685	0.0897
													Chromium (total)	/	/	11	19.7
													Cobalt	/	/	8.85	8.97
													Copper	/	/	16.8	18
													Hexavalent chromium	/	/	0.18	0.34
													Lead	/	/	3.67	5.63
													Manganese	/	/	326	334
													Mercury	0.0651	/	/	0.126
													Molybdenum	/	/	0.316	0.315
													Nickel	/	/	11.967	12.9
													Silver	1.3	/	/	/
													Vanadium	/	/	63.7	58.6
													Zinc	/	/	50.894	49.8

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													Chloride	13.9	/	/	9.05
													Fluoride	/	1.1	1.1	/
													Nitrate and Nitrite as Nit	/	/	3.53	10.6
													Sulfate	/	/	18.3	55
													Bis(2-ethylhexyl)phthala	/	0.12	/	/
													Benzo(a)anthracene	11.8	/	/	0.087
													Benzo(a)pyrene	8.56	/	/	0.057
													Benzo(b)fluoranthene	15.2	/	/	0.087
													Benzo(ghi) perylene	/	0.19	/	/
													Benzo(k)fluoranthene	5.01	/	/	0.049
													Chrysene	12.8	/	/	0.08
													Dibenz(a,h) an	/	0.036	/	/
													Fluoranthene	/	/	10.5	0.0836
													Indeno(1,2,3-cd)pyrene	6.34	0.22	/	/
													Phenanthrene	6.16	0.043	/	/
													Pyrene	13.9	0.6	/	/
													beta-BHC	/	/	/	/
													4,4`-DDE	/	0.001	/	/
													Endrin Aldehyde	/	/	/	/
													Endrin ketone	/	/	/	/
116-D-6	French Drain	100-DR-1	1 (dia.) x 1	1953-1967	French drain that received 100,000 L (26,417 gal) of domestic wastewater from the change room and mask decontamination station during reactor operations.	Interim Closed	WSRF 2006-106 CVP-2000-00009	10/21/1999	1/3/2000	2/29/2000	200	4.6	Americium-241	/	0.097 U	/	0.141[c]
													Cesium-137	/	0.538	/	0.478[c]
													Europium-152	/	2.87	/	2.54[c]
													Europium-154	/	0.170 U	/	0.155[c]
													Plutonium-239/240	/	0.038	/	0.056[c]
													Uranium-233/234	/	0.68 J	/	0.504[c]
													Uranium-238	/	0.604 J	/	0.429[c]
													Chromium Total	/	10.7	/	9[c]
													Mercury	/	0.05 U	/	0.05[c]
													Lead	/	3.8	/	3.8[c]
116-D-7	Retention basin	100-DR-1	142 x 70 x 5.7	1944-1967	Site was an open concrete basin that retained cooling water effluent from the 105-D Reactor for radioactive decay and thermal cooling before release to the Columbia River. Total radionuclide inventory in the vicinity ranged from 5 to 400 Ci.	Interim Closed	WSRF 2000-007 CVP-99-00007	May. 1, 1997	Not documented in CVP	Aug., Sept., & Nov. of 1998; and Jan. & Feb. of 1999	177,724	7.4	Americium-241	0.34 U	0.43	0.055	0.231
													Cobalt-60	0.077 U	40	0.039	17.9
													Cesium-137	0.34	45	0.181	30.1
													Europium-152	0.52	370	0.355	176
													Europium-154	0.26 U	53	0.066	24.4
													Europium-155	0.19 U	2.6	0.051	1.5
													Nickel-63	15.7 J	1,300 J	4.4	547
													Plutonium-238	0.02 U	0.049	0.03	0.038
													Plutonium-239/240	0.037 U	1.8	0.028	0.801
													Strontium-90	0.037 U	2.1	0.211	1.57
													Hexavalent Chromium	1.3	18	1.3	3.26
													Chromium Total	10.4	339	8	206
													Mercury	0.11 U	2.4	0.02	1.13
													Lead	4.8	10.3	3.5	7.55
116-D-8	Storage	100-DR-2	1,049.5 m^2	1946-1975	The site is a concrete pad with two drains that stored shipping and handling casks. The site was covered with grey grout.	Interim Closed	WSRF-2009-015	Aug-08	Feb-09	June 2009-February 2011	~1,170 BCM	1.5	Cesium-137	/	/	2.5	/
													Strontium-90	/	/	0.4	/
													Uranium-233/234	/	/	0.1	/
													Uranium-238	/	/	0.1	/
													Antimony	0.4	/	/	/
													Arsenic	/	/	2.9	/
													Barium	/	/	71.4	/
													Beryllium	/	/	0.5	/
													Boron	/	/	1.2	/
													Cadmium	0.063	/	/	/
													Chloride	/	/	4.7	/

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													Chromium (total)	/	/	10.8	/
													Cobalt	/	/	7.8	/
													Copper	/	/	13.2	/
													Fluoride	/	/	2.0	/
													Lead	/	/	24.6	/
													Manganese	/	/	302.5	/
													Mercury	/	/	0.0	/
													Nickel	/	/	11.6	/
													Nitrate as Nitrogen	/	/	2.3	/
													Nitrate and Nitrite as Nitrogen	/	/	2.0	/
													Sulfate	/	/	10.0	/
													Vanadium	/	/	53.5	/
													Zinc	/	/	46.6	/
													Aroclor-1260	/	/	0.0	/
													TPH - diesel range	/	/	13.0	/
													TPH - diesel range EXT	/	/	50.0	/
													Benzo(a)anthracene	31.00	/	/	/
													Benzo(a)pyrene	0.03	/	/	/
													Benzo(b)fluoranthene	0.05	/	/	/
													Benzo(ghi)perylene	0.03	/	/	/
													Bis(2-ethylhexyl)phthalate	0.20	/	/	/
													Fluoranthene	0.06	/	/	/
													Pyrene	0.05	/	/	/
													Acetone	0.01	/	/	/
													Excavation Focus Samples				
													Cesium-137	0.50	/	/	/
													Uranium-233/234	0.08	/	/	/
													Antimony	0.46	/	/	/
													Arsenic	2.80	/	/	/
													Barium	61.00	/	/	/
													Beryllium	0.45	/	/	/
													Cadmium	0.05	/	/	/
													Chromium (total)	11.00	/	/	/
													Cobalt	7.00	/	/	/
													Copper	13.00	/	/	/
													Manganese	280.00	/	/	/
													Mercury	0.03	/	/	/
													Nickel	11.00	/	/	/
													Vanadium	50.00	/	/	/
													Zinc	40.00	/	/	/
													Nitrate as Nitrogen	2.10	/	/	/
													rate and Nitrite as Nitrog	1.80	/	/	/
													Sulfate	13.00	/	/	/
													TPH - diesel range	5.00	/	/	/
													TPH - diesel range EXT	8.50	/	/	/
													Aroclor-1260	0.01	/	/	/

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													Bis(2-ethylhexyl)phthalat	0.12	/	/	/
													South Area Focus Samples				
													Cesium-137	7.63	/	/	/
													Uranium-233/234	0.20	/	/	/
													Uranium-238	0.26	/	/	/
													Antimony	0.49	/	/	/
													Arsenic	2.70	/	/	/
													Barium	77.90	/	/	/
													Beryllium	0.12	/	/	/
													Boron	2.70	/	/	/
													Cadmium	0.17	/	/	/
													Chromium (total)	10.10	/	/	/
													Cobalt	8.00	/	/	/
													Copper	15.30	/	/	/
													Hexavalent chromium	0.15	/	/	/
													Lead	35.00	/	/	/
													Manganese	301.00	/	/	/
													Mercury	0.03	/	/	/
													Molybdenum	0.37	/	/	/
													Nickel	9.90	/	/	/
													Selenium	1.20	/	/	/
													Vanadium	58.70	/	/	/
													Zinc	55.20	/	/	/
													Nitrate as Nitrogen	5.00	/	/	/
													Nitrate and Nitrite as Nitrogen	5.30	/	/	/
													Sulfate	3.30	/	/	/
													TPH - diesel range	17.00	/	/	/
													TPH - diesel range EXT	46.00	/	/	/
													Aroclor-1254	0.10	/	/	/
													Aroclor-1260	0.18	/	/	/
													Methylene chloride	0.00	/	/	/
													Benzo(a)anthracene	0.03	/	/	/
													Benzo(a)pyrene	0.03	/	/	/
													Benzo(b)fluoranthene	0.05	/	/	/
													Benzo(ghi)perylene	0.03	/	/	/
													Bis(2-ethylhexyl)phthalate	0.09	/	/	/
													Chrysene	0.05	/	/	/
													Fluoranthene	0.05	/	/	/
													Phenanthrene	0.03	/	/	/
													Pyrene	0.05	/	/	/
116-D-9	Crib	100-DR-1	3 x 3 x 3 (Crib) 91.4 m long x 10.2 cm dia. influent pipe	1960-1967	Site was the 117-D seal pit crib. Received 420,000 L (110,952 gal) of process effluent drainage from the confinement System 117 Building seal pits.	Interim Closed	WSRF 2000-132 CVP-2000-00012	Oct. 29, 1999	Aug. 11, 2000	Jan. 5 and Sept. 12, 2000	7.3	5.5	Strontium-90	0.556 J	/	0.306	/
													Uranium-238	0.662 J	/	0.507	/
													Hexavalent Chromium	0.49 U	/	0.49	/
116-DR-1 & 2	Trench	100-DR-1	137 x 4.5 x 6.0 deep, Depth is from technical baseline	1950-1967	Sites consisted of two trenches that were later joined to form a single trench. Received effluent from the 116-	Interim Closed	WSRF 2000-068 CVP-2000-00002	Nov. 25 1996	Oct. 21, 1999	Nov. 30 to Dec. 17, 1999	82,768	5	Americium-241	0.94 U	1.30 U	0.32[c]	0.68[c]
													Cobalt-60	0.14 U	3.52	0.05[c]	1.86[c]
													Cesium-137	1.24	110	0.305[c]	69.3[c]

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			report Depth also reported as 3.2 and 4.57 m		D-7 and 116-DR-9 Retention basins when cooling water was contaminated due to ruptured fuel elements. Received 40,000,000 L (10,556,882 gal) of effluent; 40 kg (88 lb) sodium dichromate. Radiological inventory is 3.1 Ci.								Europium-152	0.28 U	126	0.16[c]	64.8[c]		
													Europium-154	0.46 U	8.06	0.18[c]	4.23[c]		
													Europium-155	0.36 U	0.59 U	0.13[c]	0.432[c]		
													Nickel-63	1.65 U	70.4	2[c]	44.1[c]		
													Plutonium-238	0.404 J	0.077	0.103[c]	0.0452[c]		
													Plutonium-239/240	0.055 U	5.82	0.05[c]	2.66[c]		
													Strontium-90	106	28.8 J	0.17[c]	13.2[c]		
													Hexavalent Chromium	0.47 U	0.9	0.47 U[c]	0.9[c]		
116-DR-10	Pond	100-DR-2	24.4 x 15.2 with an average depth of 1.8 to 2.4	Oct. - Nov. 1984	The unit consisted of an excavated pit (pond) in a natural depression that received processed water from the 105-DR Fuel Storage basin cleanout.	Interim Closed	WSRF/RSVP-2010-015	Nov. 11, 2008	Jan. 7, 2009	Jan. 25 and Feb. 3, 2010	6,000 BCM	4		Excavation			Overburden		
														Maximum	95% UCL	Focused Samples Max only	Maximum	95% UCL	
													Cesium-137	0.525	0.129	0.647	/	/	
													Europium-152	0.157	0.065	0.575	/	/	
													Plutonium-239/240	0.043 O	0.013	0.199	/	/	
													Uranium-233/234	0.893	0.601	0.595	0.799	0.573	
													Uranium-238	1.04	0.64	0.391	0.833	0.605	
													Arsenic	6.07	3.8	1.79	3.62	2.94	
													Barium	67.9	58.3	41.6	74.9	66.1	
													Beryllium	0.224	0.183	0.161	0.223 B	0.189	
													Boron	1.36 B	1.02	0.598	1.22 B	1.05	
													Cadmium	0.159 B	0.099	0.143	0.106 B	0.0878	
													Chromium	16	12.3	6.65	12	10.3	
													Cobalt	8.45	7.04	8.37	7.39	6.71	
													Copper	18.1	15	15	14.5	13.2	
													Hexavalent Chromium	/	/	0.24	/	/	
													Lead	4.12	3.4	2.75	12.3	6.79	
													Manganese	297	281	310	326	289	
													Mercury	0.0223	/	0.0132	0.0245	/	
													Molybdenum	0.403 B	0.333	0.497	0.391 B	0.304	
													Nickel	12.7	10.5	8.63	11.5	9.65	
													Vanadium	60.3	50.4	73.4	55.1	51.1	
													Zinc	44.4	38.6	46.5	42.4	38.6	
													Aroclor-1260	0.00854	/	/	0.00596	/	
116-DR-3	Trench	100-DR-2	TBD	1955	Site consists of a trench that received water and sludge pumped from the fuel storage basin via an overground pipeline.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
116-DR-4	Crib	100-DR-2	3 x 3 x 3	1950-1956	The crib was a wooden structure and gravel filled. Received 4,000 L (1,056 gal) of effluent from 105-DR Fuel Storage basin. Radiological inventory is 0.06 Ci.	Interim Closed	WSRF 2000-103 CVP-2000-00015	Nov. 5, 1999	Jan. 3, 2000	Jan. 17, 2000	523	4.6	Cobalt-60	0.051 U	/	0.0477[c]	/		
													Cesium-137	0.0836 J	/	0.186[c]	/		
													Europium-152	0.11 U	/	0.0578[c]	/		
													Strontium-90	0.167 U	/	0.105[c]	/		
													Hexavalent Chromium	0.45 U	/	0.45 U[c]	/		
116-DR-5	Outfall	100-DR-1	8.5 x 3.4 x 6.7	1956-1967	Structure was an open concrete compartmentalized weir structure located at the top of the riverbank west of the 107-D Retention basin. Received effluent from the retention basins before release to the Columbia River.	Interim Closed	WSRF/RSVP-2010-051	Jan. 12, 2009	May 13, 2009	Apr. 21 & 22, 2010	2,613	11		Excavation			Overburden		Staging Pile	
														Maximum	95% UCL	Focused Samples Max only	Maximum	95% UCL	Maximum	95% UCL
													Cesium-137	3.28	0.837	0.949	0.641	0.212	0.137	0.0349
													Cobalt-60	0.158	0.0545	/	0.197	0.0483	/	/
													Europium-152	2.52	0.933	0.53	2.51	0.672	/	/
													Nickel-63	29.7	13.3	7.13	29.4	11.3	/	/
													Plutonium-239/240	0.115	0.0414	/	0.109	0.0356	/	/
													Strontium-90	0.316	0.104	/	0.186	0.0519	/	/
													Tritium (H-3)	0.297 J	0.197	0.3	0.226	0.194	0.268	0.195
													Uranium-233/234	1.37	1.01	0.886	0.829	0.758	0.865	0.709
													Uranium-235	0.598	0.193	/	0.0724	0.043	0.256	0.088
													Uranium-238	1.28	0.911	0.764	0.878	0.732	0.857	0.678
													Arsenic	2.9	2.6	3.1	2.9	2.6	3.5	2.8
													Barium	83.4	71.5	70.3	81.1	72.4	67.1	59.4
													Beryllium	0.3	0.24	0.2	0.17 B	0.12	0.16 B	0.1
													Boron	1.5 B	/	1.4	1.4 B	1.1	/	/
													Chromium Total	35.3 J	17.7	16.6	14.4	11.5	12.3	11
													Cobalt	9.3 L	8.5	9.7	10.8 L	9.7	8.9 L	7.9
													Copper	27.9	21.6	26.1	22.6	21.3	18.9 J	17.5
													Hexavalent Chromium	0.611	/	0.361	0.304	0.222	0.563	/
													Lead	5.3	4	4.5	4.6	4.1	4.1	3

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Site Code	Site Type	Operable Unit	Site Dimensions (m)	Dates of Operation	Site History	Class Status	Decision/ Closeout 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	Maximum Concentration (pCi/g, mg/kg) Shallow[a]	Maximum Concentration (pCi/g, mg/kg) Deep[b]	95% UCL (pCi/g, mg/kg) Shallow[a]	95% UCL (pCi/g, mg/kg) Deep[b]			
													Manganese	338 L	311	325	362	336	306	293
													Mercury	0.067	0.031	0.045	0.15	0.045	0.045	0.011
													Molybdenum	0.54 B	/	/	/	/	/	/
													Nickel	20.1	12.7	15.9	12.2 LM	11.3	12.5	11.7
													Vanadium	67.2	56.2	56.3	63.5	59.6	60.2	51.5
													Zinc	54.6	44.6	49.4	169 L	60.4	41.7	39.3
													benzo(a)anthracene	0.39	0.12	0.056	0.2 J	/	/	/
													benzo(a)pyrene	0.150 J	0.05	/	0.13 J	/	/	/
													benzo(b)fluoranthene	0.450 K	0.146	0.07	0.230 JK	0.089	/	/
													benzo(ghi)perylene	0.078 J	/	/	0.051 J	/	/	/
													Chrysene	0.47	0.146	0.062	0.250 J	0.081	/	/
													Fluoranthene	0.71	0.217	0.094	0.180 J	0.074	/	/
													Indeno(1, 2, 3-cd)pyrene	0.072 J	/	/	0.045 J	/	/	/
													Phenanthrene	0.08	0.037	/	0.038 J	/	/	/
													Pyrene	0.69	1.11	0.1	0.220 J	0.078	/	/
116-DR-6	Trench	100-DR-2	15 x 3 x 3	1953-1965	Received 7,000,000 L (1,849,204 gal) of 105-DR Reactor cooling water and decontamination fluids during upgrade of the reactor emergency shutdown system.	Interim Closed	WSRF 2000-104 CVP-2000-00014	Nov. 2, 1999	Not documented in CVP	Feb. 2-3, 2000	2,140	4.8	Cobalt-60	0.07 U	0.308	0.0546[c]	0.277[c]			
													Cesium-137	0.091 U	6.51	0.0795[c]	5.74[c]			
													Europium-152	0.482	14.4	0.341[c]	12.8[c]			
													Europium-154	0.24 U	1.4	0.197[c]	1.26[c]			
													Strontium-90	0.425	1.12	0.265[c]	0.265[c]			
													Uranium-238	0.617 J	0.855 J	0.447[c]	0.447[c]			
													Hexavalent Chromium	0.44 U	0.45 U	0.44 U[c]	0.45 U[c]			
116-DR-7	Crib	100-DR-2	1.5 x 1.5 x 3	1953	This crib was used to receive the liquid potassium borate solution that was drained from the 3X system before the ball 3X upgrade. The crib is also described as a tank of unknown size buried under 1.8 m (6 ft) of soil. Received 4,000 L (1,056 gal) of effluent	Interim Closed	WSRF 2000-004 CVP-2000-00019	Dec. 7, 1999	Dec. 8, 1999	Jan. 21, 2000	59	4.8	Cobalt-60	0.055	/	0.0629	/			
													Cesium-137	0.073	/	0.0716	/			
													Europium-152	0.218	/	0.18	/			
													Europium-154	0.15	/	0.187	/			
													Strontium-90	0.141	/	0.178	/			
													Uranium-233/234	0.699	/	0.564	/			
													Uranium-238	0.547	/	0.454	/			
116-DR-8	Crib	100-DR-2	3.0 x 3.0 and 3.3 to 4.6 m bgs	1960-1964 and 1972-1986	The 117-DR-Seal Pit Crib is documented in WIDS as two separate sites. The first was 122-DR-1:6 and the second is 116-DR-8. This site is the radioactive constituents that are remaining at the 117-DR Seal Pit Crib.	Interim Closed	WSRF/RSVP-2009-037	Jun. 18, 2008	Jul. 24, 2008	May 19 to 26, 2009	1,991	6.8		Excavation		N. Stockpile		S. Stockpile		
														Maximum	95% UCL	Maximum	95% UCL	Maximum	95% UCL	
													Cesium-137	0.148 J	0.0431	/	/	0.106	0.0283	
													Plutonium-238	/	/	0.0909	0.0206	/	/	
													Strontium-90	0.451	0.306	0.297	1.66	0.246	0.0937	
													Uranium-234	0.247	0.173	0.352	0.271	0.187	0.151	
													Uranium-238	0.245	0.194	0.355	0.296	0.203	0.161	
													Antimony	0.68 B	0.49	0.61 B	0.53	0.91 B	0.74	
													Arsenic	3.3	2.5	2.4	2.3	3.1	2.5	
													Barium	77	66	57	52	73	64	
													Beryllium	2	0.99	0.57	0.55	2.1	1.9	
													Boron	2.2	/	/	/	1.8	/	
													Cadmium	/	/	/	/	0.078	/	
													Chromium Total	10	8.4	8.1	7.3	11	9.4	
													Cobalt	10	8.8	9.0 L	8.7	9.7 L	9.2	
													Copper	16	14	15 L	14	14	13	
													Hexavalent Chromium	0.192	/	0.175	/	0.199	/	
													Lead	5.5	4.3	4.4	3.8	6.6	4.8	
													Lithium	150	38	6.5	6.1	46	34	
													Manganese	340 J	305	340 L	323	380 L	348	
													Mercury	0.0095	/	/	/	/	/	
													Molybdenum	0.64	/	/	/	0.37	/	
													Nickel	14	12	12 L	11	13 L	12	
													Silver	/	/	/	/	2.2	/	
													Vanadium	71	64	68	65	77	69	
													Zinc	55	50	49 L	48	140 L	68	
													Acetone	0.038	0.022	0.052	0.05	13 J	0.0089	
													1,2-Dichlorobenzene	0.026	/	/	/	/	/	
													2,4,5-Trichlorophenol	0.01	/	/	/	/	/	
													2,4-Dichlorophenol	0.011	/	/	/	/	/	
													2-Cholornaphthalene	0.011	/	/	/	/	/	
													Acenaphthene	0.012	/	/	/	/	/	
													benzo(a)anthracene	0.042	/	0.077	/	/	/	
													benzo(a)pyrene	0.028	/	0.046	/	/	/	

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													benzo(b)fluoranthene	0.034	/	0.095	/	/	/	
													benzo(ghi)perylene	0.027	/	0.023	/	/	/	
													Chrysene	0.048 J	0.028	0.11	/	0.03	/	
													Dibenz[a,h]anthracene	0.025	/	/	/	/	/	
													Dimethyl phthalate	0.033	/	/	/	/	/	
													Fluoranthene	/	/	0.18	/	/		
													Indeno(1, 2, 3-cd)pyrene	0.022	/	0.022	/	/	/	
													Phenanthrene	/	/	0.14	/	/		
													Pyrene	0.02	/	0.12	/	0.018	/	
													Toluene	0.0011	/	/	/	/	/	
116-DR-9	Retention basin	100-DR-1	183 x 83 x 6	1950-1967	Site was an open concrete basin that retained cooling water effluent from the 118-DR-2 (105-DR Reactor) for radioactive decay and thermal cooling before release to the Columbia River. Also received ruptured fuel element waste after 1954. Total radionuclide inventory in the vicinity ranged from 5 to 400 Ci.	Interim Closed	WSRF 99-046 CVP-99-00006	Oct. 21, 1997	Dec. 28, 1998	Feb. 18 and Mar. 11, 1999	201,519	4.75	Cobalt-60	0.056	3.54	0.041	3.21			
													Cesium-137	10	19.5	2.84	25.8			
													Europium-152	0.627	38.1	0.405	25.2			
													Europium-154	0.071 J	7.12	0.0732	3.47			
													Europium-155	0.041 U	0.21	0.0528	0.26			
													Nickel-63	4.99 J	182	3.37	53.2			
													Plutonium-238	0.359	0.039 U	0.15	0.08			
													Plutonium-239/240	0.724	1.08	0.304	0.32			
													Strontium-90	0.287 J	2.23 J	0.266	2.01			
													Hexavalent Chromium	1.9	0.604	1.9	0.55			
													Aroclor-1242	0.035 U	0.11	0.035	0.11			
													Aroclor-1260	0.035 U	0.18	0.035	0.11			
118-D-1	Burial Ground	100-DR-2	137.2 x 114.3 x 6.1	1944-1967	The waste site contains four trenches that trend north and south. This burial ground was used for the disposal of irradiated dummies, thimbles, horizontal control rods, gun barrels, 12 steel drums of irradiated expendable dummies, and other contaminated solid waste. The waste site has the potential to contain spent nuclear fuel elements. The breakdown of other waste items includes 259.2 tons of soft waste, 1.5 tons of desiccant, 19.25 ton of miscellaneous waste, and 0.03 ton of thermo-couple waste.	Interim Closed	CVP-2010-00007 WSRF-2010-056	Nov-08	May-11	May-11	42,730 BCM	6.5	Cesium-137	/	/	0.02	0.03			
													Technetium-99	/	/	0.48				
													Tritium	/	/	0.38	0.07			
													Uranium-233/234	/	/	0.79	0.72			
													Uranium-238	/	/	0.80	0.72			
													Arsenic	/	/	2.68	2.47			
													Barium	/	/	60.66	59.50			
													Beryllium	/	/	0.23	0.23			
													Boron	1.7	2.1	/	/			
													Cadmium	0.055	0.059	/	/			
													Chromium (total)	/	/	9.39	7.60			
													Cobalt	/	/	7.73	10.31			
													Copper	/	/	16.67	16.45			
													Hexavalent chromium	0.175	0.344	/	/			
													Lead	/	/	3.64	4.42			
													Manganese	/	/	288.06	312.80			
													Mercury	—	0.05	0.02	/			
													Molybdenum	0.32	0.38	/	/			
													Nickel	/	/	12.00	10.48			
													Vanadium	/	/	59.36	75.29			
													Zinc	/	/	41.51	47.87			

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													TPH - diesel range EXT	—	59	5.00	—			
													Overburden							
													Cesium-137	/	/	0.04	/			
													Tritium	/	/	0.02	/			
													Uranium-233/234	/	/	0.70	/			
													Uranium-238	/	/	0.72	/			
													Arsenic	/	/	2.97	/			
													Barium	/	/	70.40	/			
													Cadmium	/	/	0.06	/			
													Chromium (total)	/	/	9.89	/			
													Cobalt	/	/	7.32	/			
													Copper	/	/	15.04	/			
													Hexavalent chromium	/	/	0.38	/			
													Lead	/	/	3.93	/			
													Manganese	/	/	304.97	/			
													Nickel	/	/	11.64	/			
													Vanadium	/	/	50.39	/			
													Zinc	/	/	38.40	/			
													Bis(2-ethylhexyl)phthalate	/	/	0.22	/			
													Dimethyl phthalate	/	/	0.05	/			
													Boron	1.40	/	/	/			
													Mercury	0.01	/	/	/			
													Molybdenum	0.76	/	/	/			
													TPH - diesel range EXT	1.30	/	/	/			
													Benzo(b)fluoranthene	0.12	/	/	/			
													Butylbenzylphthalate	0.11	/	/	/			
118-D-2:1	Burial Ground	100-DR-2	304.8 x 109.7 x 6.1	1949-1970	This site contained several trenches that trend east to west and five pairs of disposal pits. The site was the primary burial ground for the disposal of 105-D Reactor operations waste, including irradiated dummies, splines, rods, thimbles, and gun barrels. The metallic waste disposed in the waste site consists of 16,329 kg (35,924 lb) of aluminum tubes, 36,287 kg (79,831 lb) of aluminum spacers, 89,040 kg (195,888 lb) of lead poison slugs, 3,719 kg (8,182 lb) of cadmium poison slugs, 54 kg (119 lb) of graphite, 14 kg (31 lb) of desiccant, 5,987 kg (2,721 lb) of aluminum poison slugs, 816 kg (371 lb) of poison splines, 58,966 kg (26,803 lb) of lead, and 16,329 kg (7,422 lb) of miscellaneous metallic waste. Large volumes of water were	Interim Closed	CVP-2012-00002 WSRF-2012-015	Feb-09	May-11	Feb-12	45,752 BCM	7.5	N/A	N/A	N/A	N/A	N/A			
118-D-2:2	Burial Ground	100-DR-2	5661 m^2	2010-2011	The site consists of the northern portion of the 118-D-2: burial ground . Geophysical surveys of the area reveal no buried wastes	Interim Closed	CVP-2012-00003 WSRF-2012-014	Jun-11	Apr-12	Apr-12	415 BCM	0.91	N/A	N/A	N/A	N/A	N/A			

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118-D-3:1	Burial Ground	100-DR-2	304.8 x 79.2 x 6.1 (includes both 118-D-3 subsites)	1956-1973	The 118-D-3:1 subsite consists of multiple trenches (6-8) in the 100-D Burial Ground No. 3. The burial ground was the primary disposal site for 105-DR Reactor operations waste, including irradiated dummies, splines, rods, thimbles, and gun barrels. The burial ground has the potential to contain spent nuclear fuel elements. The site also contained a burn pit used to dispose of low-level radioactive combustible materials. The eastern boundary was used for the disposal of 100-N solid wastes. The waste site received 23.8 tons of lead, 97 tons of aluminum, 137.7 tons of	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
118-D-3:2	Burial Ground	100-DR-2	304.8 x 79.2 x 6.1 (includes both 118-D-3 subsites)	1956-1973	The 118-D-3:2 subsite includes two areas. The fuel characterization area was used to investigate suspect spent nuclear fuel and confirm presence of spent nuclear fuel pieces. The anomaly characterization area was used to characterize anomalous materials found at 100-D.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
118-D-4	Burial Ground	100-DR-2	182.9 x 61.0	1953-1967 (CVP) 1956-1967 (WIDS)	The construction burial ground contains several non-uniform trenches that received contaminated material generated during Project CG-558. The contaminated material consists mainly of reactor components and hardware from the 105-D Reactor. based on the historical photograph 3738-Photo, this site likely began operations around 1956 instead of 1953.	Interim Closed	WSRF 2008-055 CVP-2009-00001	Oct. 10, 2007	Mar. 20, 2008	Dec. 9-11, 2008	7,067 BCM	6.5 (all treated as shallow zone)		Excavation			Overburden			
														Maximum	95% UCL	Focused Sample Max only	Maximum	95% UCL	
													Cesium-137	0.379	0.101	0.15	0.045	0.022	
													Europium-152	0.329	0.104	0.45	/	/	
													Nickel-63	4.01	1.48	/	/	/	
													Plutonium-239/240	0.314	0.08	/	/	/	
													Strontium-90	1.81	0.46	/	/	/	
													Uranium-233/234	0.76	0.566	0.496	0.823	0.709	
													Uranium-238	0.987	0.67	0.746	0.721	0.597	
													Antimony	7	2	0.9	/	/	
													Arsenic	4.5	3.2	3.3	3.3	3.12	
													Barium	85.4	70.3	77.3	85.8	74.8	
													Beryllium	0.3	0.2	0.2	0.3	0.3	
													Boron	1.6 J	1.2	1.3	1.8 B	1.6	
													Cadmium	1	0.4	4.66	0.2	0.2	
													Chromium Total	18.6	13.5	48.1	16.5	12.7	
													Cobalt	8.7	8.1	11	8.7	7.4	
													Copper	19.1	15.4	15.5	15.6	14.9	
													Hexavalent Chromium	/	/	0.17	/	/	
													Lead	19.8	8.3	3.7	4.5	3.7	
													Manganese	352	341	399	422	341	
													Mercury	0.0866	/	0.0583	0.0399	/	
													Molybdenum	0.8 B	0.5	0.5	0.5 B	0.5	
													Nickel	15.6	12.6	27.3	16.7	13	
													Vanadium	88.8	80.9	92.4	69.9	66.6	
													Zinc	88.8	58.1	59.6	49.8	47.6	
													TPH - diesel range	/	/	5.46	/	/	
													TPH - motor oil (high boiling)	/	/	10.5	/	/	
118-D-5	Burial Ground	100-DR-2	12.2 x 3.0 x 3.0	1954	This waste site is referred to as the ball 3X Burial Ground. The site consists of two burial trenches located parallel to each other. The burial ground received vertical safety rod thimbles from the 105-DR Reactor during the ball 3X Project in 1954. Sludge from the 105-DR Storage basin has been buried at the west end of the waste site. There is disagreement about the exact location and size of these trenches.	Interim Closed	WSRF 2009-020 CVP-2009-0008	Jun. 2, 2008	Aug. 12, 2008	Apr. 28, 2009	314 BCM	2m in the easternmost portion, 7m in the westernmost portion of the excavation (shallow and deep zone considered one decision		Excavation			Overburden			
														Maximum	95% UCL	Focused Sample Max only	Maximum	95% UCL	
													Cobalt-60	/	/	1.1 (<BG)	/	/	
													Nickel-63	20.2	5.13	113 (<BG)	/	/	
													Strontium-90	0.472	0.172	/	0.208	0.145	
													Tritium (H-3)	/	/	0.15 (<BG)	/	/	
													Antimony	0.54 B	0.39 (<BG)	0.44 (<BG)	0.79 B	0.59 (<BG)	
													Arsenic	3.2	2.7 (<BG)	2.5 (<BG)	2.9	2.8 (<BG)	

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Site Code	Site Type	Operable Unit	Site Dimensions (m)	Dates of Operation	Site History	Class Status	Decision/ Closeout 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	Maximum Concentration (pCi/g, mg/kg) Shallow[a]	Maximum Concentration (pCi/g, mg/kg) Deep[b]	95% UCL (pCi/g, mg/kg) Shallow[a]	95% UCL (pCi/g, mg/kg) Deep[b]			
												unit)	Barium	74	61 (<BG)	53 (<BG)	59 L	57 (<BG)		
													Beryllium	0.73	0.67 (<BG)	0.93 (<BG)	0.7	0.66 (<BG)		
													Boron	1.5	1.5	/	/	/		
													Cadmium	0.92 B	0.076 (<BG)	0.054 (<BG)	0.091 B	0.077		
													Chromium	11	9.1 (<BG)	8.5 (<BG)	9.5 L	8.5 (<BG)		
													Cobalt	11	9.6 (<BG)	9.8 (<BG)	9.8 L	9.3 (<BG)		
													Copper	14	12 (<BG)	13 (<BG)	13	12 (<BG)		
													Lead	4.8	3.7 (<BG)	3.4 (<BG)	4.7	3.7 (<BG)		
													Hexavalent Chromium	0.235	0.235	/	0.253	0.218		
													Manganese	320	281 (<BG)	290 (<BG)	280 L	275 (<BG)		
													Mercury	0.011 B	0.007 (<BG)	0.0061 (<BG)	0.81	0.015		
													Molybdenum	0.95 (<BG)	0.95 (<BG)	0.32	0.37	0.37		
													Nickel	13	11 (<BG)	10 (<BG)	13	12 (<BG)		
													Vanadium	64	54 (<BG)	62 (<BG)	54 L	51 (<BG)		
													Zinc	50	42 (<BG)	43 (<BG)	44 L	40 (<BG)		
118-D-6:1	Reactor	100-DR-1	999 m^2	1944-1967	This subsite is the Safe Storage Enclosure (SSE) for the 105-D Reactor block. The original footprint area of the 105-D Reactor Building was approximately 4,994 meters squared (53,750 square feet). The final ground-level footprint area of the SSE is 999 meters squared (10,750 square feet). The areas of the reactor building that have been removed to ERDF represent 80% of the original footprint of the reactor building.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
118-D-6:2	Reactor	100-DR-1	3,948 m2 (including all 118-D-6 subsites)	1944-1967	Subsite is reffered to as "Demolition Zones 1-3 and 5" in the CVP. Zone 1 consisted of the water tower pedestal, the 103-D Unirradiated Fuel Element Storage Building, miscellaneous storage room 210, and room 215 on the ground level. Zone 2 was located on the west side of the reactor building and consisted of the 230a valve pit; the 310 supply fan room; the 231 d tool room; the 231 b laundry storage room; the 230b elevator; and the 228a, 228b, 228c, 228d, 229a, and 229b offices. Zone 3 was located on the south side of the reactor building and consisted of the 311, 312, 313, and 314 fan rooms; 315 exhaust plenum; 114a clean storage room; 114b contaminated storage room; 213 stairway/corridor; 233a sample room; and miscellaneous rooms 234 and 235. Zone 5 was located on the north sideof the reactor building and consisted of the 211, 212, 218, and 219 miscellaneous rooms; the 220 control room; the inner horizontal control rod room; the outer horizontal control rod room; and miscellaneous rooms numbered 222, 223, 224, 225,	Interim Closed	WSRF 2005-021 CVP-2005-00003	N/A	N/A	N/A	N/A	N/A	This site did not require sampling and analysis because the structures were removed in their entirety and there were no water-bearing structures that could have caused soil contamination.							
118-D-6:3	Reactor	100-DR-1	3,948 m2 (including all 118-D-6 subsites)	1944-1967	This subsite includes the fuel storage basin and the underlying soil.	Interim Closed	WSRF 2005-021 CVP-2005-00003	Jan. 2000	Dec. 2001	Nov. 7 to Dec. 19, 2001	21,613	4.6 (Fuel Storage basin floor left in place)	Americium-241	/	515	0.01[e]	190			
													Carbon-14	/	2,630	0.098[e]	1,800			
													Cobalt-60	/	2,260	0.082[e]	1,500			
													Cesium-137	/	16,700	0.77[e]	14,000			
													Europium-152	/	2,780	0.13[e]	2,400			
													Europium-154	/	518	0.022[e]	400			
													Europium-155	/	27 U	U	U			
													Tritium (H-3)	/	1,480	0.048[e]	870			
													Neptunium-237	/	0.68	U	U			

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													Nickel-63	/	72,500	2.5[e]	46,000
													Plutonium-238	/	14.9	0.0006[e]	11
													Plutonium-239	/	490	0.018[e]	323
													Plutonium-240	/	490	0.0042[e]	77
													Strontium (total)	/	3,620	/	/
													Strontium-90	/	/	0.16[e]	3,000
													Uranium-234	/	23.2	0.00088[e]	16
													Uranium-235	/	0.891 U	U	U
													Uranium-238	/	2.58 U	0.000055[e]	1
													Uranium (total)	/	/	0.00094[e]	17
													Hexavalent Chromium	/	0.4	0.0000219[e]	0.4
													Lead	/	91.8	0.00392[e]	71.7
													Mercury	/	16.1 U	0.000711[e]	13
													Aroclor-1254	/	4.9 J	0.000166[e]	3.04
118-D-6:4	Reactor	100-DR-1	3,948 m2 (including all 118-D-6 subsites)	1944-1967	The 118-D-6:4 subsite consists of the FSB remediation side slopes and decontaminattion areas used during ISS activities.	Interim Closed	WSRF 2010-071	May-04	Aug-09	May-10	19143.0	4.5	Cesium-137	/	/	1.67	15.00
													Europium-152	/	/	0.68	/
													Plutonium-239/240	/	/	0.07	/
													Strontium-90	/	/	0.23	/
													Tritium	/	/	0.02	/
													Uranium-233/234	/	/	0.92	/
													Uranium-238	/	/	1.09	/
													Arsenic	/	/	3.05	/
													Barium	/	91.40	66.74	/
													Beryllium	/	0.38	0.27	/
													Cadmium	/	1.60	0.06	/
													Chromium (total)	/	64.80	10.17	/
													Cobalt	/	9.70	8.16	/
													Copper	/	56.60	20.99	/
													Hexavalent chromium	/	1.64	0.55	/
													Lead	/	5.50	4.96	/
													Manganese	/	356.00	328.76	/
													Mercury	/	0.38	0.43	/
													Molybdenum	/	0.29	0.24	/
													Nickel	/	12.00	10.59	/
													Vanadium	/	94.80	69.17	/
													Zinc	/	148.00	46.76	/
													Aroclor-1254	0.032	0.07	/	/
													Aroclor-1260	0.0068	/	/	/
118-DR-1	Burial Ground	100-DR-2	24.4 x 13.1 x 4.9	1963-1964	The waste site is a gunnite-lined trench (pond) that trends north and south. There appears to be a 0.9 m (3 ft)	Interim Closed	WSRF 2009-029 CVP-2009-00010	Jun. 3, 2008	Jul.23, 2008	Apr. 14, 2009	1,673 bank cubic meters	Did not specif	Cesium-137	0.144	/	0.0565	/
													Cobalt-60	0.935	/	0.31	/
													Nickel-63	359	/	110	/

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					section in the bottom, lined with 5 cm (2 in.) of sand and no gunnite. This unit contains irradiated metal assemblies from the 105-DR Gas Loop. The burial ground received approximately 20 m^3 (706 ft^3) of irradiated metal assemblies.								Arsenic	2.7	/	2.2(<BG)	/
													Barium	75	/	57(<BG)	/
													Beryllium	1.2	/	1.1(<BG)	/
													Boron	/	/	1.3	/
													Cadmium	0.067 B	/	0.057(<BG)	/
													Chromium	9.5	/	7.4(<BG)	/
													Cobalt	9.8 L	/	8.8(<BG)	/
													Copper	15	/	13(<BG)	/
													Hexavalent Chromium	0.374	/	0.216	/
													Lead	5.4	/	4.1(<BG)	/
													Manganese	320 L	/	287(<BG)	/
													Mercury	0.0095 B	/	0.0068(<BG)	/
													Nickel	12 L	/	10(<BG)	/
													Vanadium	63	/	56(<BG)	/
													Zinc	43	/	41(<BG)	/
118-DR-2:1	Reactor	100-DR-2	892 m^2	1950-1964	Safe storage enclosure for the 105-DR reactor block. The facility contains radioactive and hazardous chemical substances (e.g., lead, asbestos, and cadmium). The bo 3X balls remain in place.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
118-DR-2:2, **Zone 1**	Reactor	100-DR-2	83 x 96 x 32	1950-1964	This subsite includes the 105-DR Reactor below grade structures and underlying soils. It was divided into five zones and the decontamination areas. Zone 1 consists of the 400 Fuel Storage basin, 410 Storage and Transfer Area, 412 Storage Area, and the 413 Transfer bay; and the soils underlying the fuel storage basin. This zone is entirely within the deep zone. concrete and soil samples were taken at the fuel storage basin floor. concrete sample values are located in the shallow section.	Interim Closed	WSRF 2003-49 CVP-2003-00016	Sept. 1998	Sept. 19, 2001	Jul. 17, 1999 to Aug. 4, 1999	7,220	4.6	Americium-241	75.5	0.269	73.3	0.09
													Barium-133	3.5 U	0.13 U	1.58	0.04
													Carbon-14	3,300	15.8	2,000	7.83
													Cobalt-60	720	4.29	58.8	1.26
													Cesium-137	11,000	17.4	910	6.74
													Europium-152	2,810	15.2	1,940	4.45
													Europium-154	518	2.24	377	0.72
													Europium-155	21.5	0.22 U	16.8	0.07
													Tritium (H-3)	8.09	N	7.19	N
													Nickel-63	11,900	102	10,200	32.5
													Plutonium-238	6.83	0.021 U	6.62	0.01
													Plutonium-239/240	358	1.23	291.2	0.1
													Strontium-90	4,500	/	4,290	13.7[f]
													Technetium-99	1.94	1.12	1.53	0.52
													Uranium-233/234	3.1	0.557	1.39	<BG
													Uranium-235	0.321	0.079	0.13	<BG
													Uranium-238	3.19	0.458	1.6	<BG
													Hexavalent Chromium	2.8	0.43 U	2.5	0.44
													Lead	60	3.5	53	3.5
													Mercury	1.1	2.1	0.91	0.05
													PCBs	1.1	0.18 U	0.91	0.18
118-DR-2:2, **Zones 2 and 3**	Reactor	100-DR-2	83 x 96 x 32	1950-1964	This subsite includes the 105-DR Reactor below grade structures and underlying soils. It was divided into five zones and the decontamination areas. Zone 2 consists of the valve pit that received wastewater from the reactor and within the deep zone. Zone 3 consisted of the 228c solids feed area, the north water tunnel, and the trench under the accumulator room. This zone is within the shallow zone.	Interim Closed	WSRF 2003-49 CVP-2003-00016	Sept. 1998	Sept. 19, 2001	Zone 2: Jul. 19-28, 2000 Zone 3: Dec. 17-21, 1999	7,220	4.6	Americium-241	0.58	0.413	0.0596	0.0851
													Barium-133	25.3	0.0406 U	1.93	0.0202
													Carbon-14	7.5	0.609 U	1.62	0.371
													Cobalt-60	3.75	0.804	0.582	0.816
													Cesium-137	8.84	11.7	1.24	2.8
													Europium-152	29.9	39	4.73	8.16
													Europium-154	6.13	7.18	0.756	1.77
													Europium-155	0.47 U	0.362	0.0778	0.1
													Nickel-63	225	155	31	31
													Plutonium-238	0.233	0.118	0.0275	0.0275
													Plutonium-239/240	1.95	0.285	0.0619	0.0619
													Strontium-90	12.4	14.7	2.65	2.65
													Technetium-99	0.936	1.36	0.342	0.342
													Uranium-233/234	N	0.376	N	<BG
													Uranium-235	N	0.0271	N	<BG
													Uranium-238	N	0.388	N	<BG
													Hexavalent Chromium	N		N	1.3
													Lead	63	5.9	19	34
													Mercury	2.9	3.2	0.84	1.7
													PCBs	N	2.1	N	0.76
118-DR-2:2, **Zones 4 and 5**	Reactor	100-DR-2	83 x 96 x 32	1950-1964	This subsite includes the 105-DR Reactor below grade structures and underlying soils. It was divided into five zones and the decontamination areas. Zone 4 consisted of the 105 Gas	Interim Closed	WSRF 2003-49 CVP-2003-00016	Sept. 1998	Sept. 19, 2001	Zone 4: Apr. 25 & May 23, 2000 Zone 5: Aug. 3 & Sept. 27, 2000	7,220	4.6	Americium-241	0.074 U	1.14	0.0314	0.556
													Barium-133	0.035 U	0.65 U	0.0162	0.153
													Carbon-14	4.73 U	357	3.04	178
													Cobalt-60	0.122	2.41	0.0507	1.04
													Cesium-137	1.98	146	0.892	18.4

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					Tunnel, 316 Exhaust Plenum, 103 Gas Recirculation Tunnel, and the 104 Instrument Room. This zone is entirely within the deep zone. Zone 5 consisted of the side slope soils around the fuel storage basin, the south effluent pipelines, and the soil under the 224b Slab. This zone is within the shallow zone.								Europium-152	0.608	52.2	0.369	4.26
													Europium-154	0.16 U	11.9	0.0642	0.263
													Europium-155	0.13 U	1.2 U	0.0536	0.263
													Nickel-63	4.75	29.5	0.81	15
													Plutonium-238	0.035 U	0.285	0.00911	0.11
													Plutonium-239/240	0.059	2.11	0.0722	0.608
													Strontium-90	6.19	26.1	0.479	9.54
													Technetium-99	0.419 U	0.628 U	0.174	0.196
													Uranium-233/234	0.676	N	<BG	N
													Uranium-235	0.081 U	1.5 U	<BG	N
													Uranium-238	0.581	86	<BG	N
													Hexavalent Chromium	0.88	N	0.88	N
													Lead	7.2	130	6.4	49
													Mercury	0.04	N	0.04	N
													PCBs	0.051	N	0.05	N
120-D-1	Pond	100-DR-1	3600 m^2	1977-1994	The pond was a Resource conservation and Recovery Act of 1976 (RCRA)-permitted TSD unit. It received 170,293 L/day (45,000 gal/day) of nonhazardous, nonradioactive effluent from the 183-D Sand Filter and 185-D and 189-D Buildings. The effluent contained alum-precipitated sand filter back flush and chlorinated water. Site did receive corrosive effluent up to three times a year; mercury and PCB detected above background.	Closed Out	100-D Ponds Closure (TSD No. D-1-1)	N/A	N/A	N/A	N/A	N/A	DOE accepted clean closure as of August 9, 1999.				
120-D-2	Surface Impoundment	100-DR-1	28.1 x 28.1 x 7.3	1945-1979 (not used operationally)	constructed of acid-proof brick, waterproof membrane, vitrified pipe, No. 8 lead flashing, and gunnite. Facility never used (no records found to document use). Structure demolished in place in 1979. Designated as a waste site because the lead flashing was not removed.	Interim Closed	WSRF/RSVP-2008-053	May, 2007	July, 2007	Sept. 17, 2008	3,361 m^3	3 to 5	Antimony	0.72 J	/	/	/
													Arsenic	2.9	/	2.3	/
													Barium	98.9 C	/	71.5	/
													Beryllium	0.29	/	0.25	/
													Boron	5.9	/	2.5	/
													Cadmium	0.11	/	/	/
													Chloride	8.5 J	/	/	/
													Chromium Total	8.3	/	7.1	/
													Hexavalent Chromium	0.22	/	/	/
													Cobalt	9.9		9.3	
													Copper	16.5	/	15.5	/
													Lead	9.7	/	7.5	/
													Manganese	353 C	/	337	/
													Mercury	0.3	/	/	/
													Molybdenum	0.68	/	0.61	/
													Nickel	10.3	/	9.8	/
													Nitrogen in Nitrate	1.2	/	0.6	/
													Sulfate	1240 DCJ	/	2228	/
													Vanadium	87.2	/	77.3	/
													Zinc	57.4	/	52.7	/
122-DR-1:1	Laboratory	100-DR-2	Exhaust fan room: 6.2 x 8.2 x 6.4 Small fire room: 6.2 x 8.2 x 6.4 Large fire room: 6.2 x 8.2 x 6.4	1972-1986	The 105-DR Large Sodium Fire Facility (LSFF) was established to study fire fighting and safety aspects associated with large sodium or other metal alkali fires in the Liquid Metal Fast Breeder Reactor (LMFBR) facilities. Area 1 (122-DR-1:1) consisted of the exhaust fan room, small fire room, large fire room, sodium handling room, and an office area, largely within the former	Closed Out	96-PCA-152 Ref letter 9601918	N/A	N/A	N/A	N/A	N/A	Clean closure of this area as defined in the 105-DR Large Sodium Fire Facility Closure Plan, releases this area from the requirements of the RCRA and Chapter 173-303 WAC. PER LETTER 9601918				
122-DR-1:2	Laboratory	100-DR-2	Not Documented	1972-1986	The 105-DR Large Sodium Fire Facility (LSFF) was established to study fire fighting and safety aspects associated with large sodium or other metal alkali fires in the Liquid Metal Fast Breeder Reactor (LMFBR) facilities. Area 2 (122-DR-1:2)	Closed Out	WSRF 2003-053 CVP-2003-00018	Jul. 2003	Jul. 2003	Aug. 8, 2003	14,011	4.6	Americium-241	0.05 U	0.082 U	0.0331	0.00908
													Carbon-14	1.22 U	1.66 U	0.927	1.12
													Cobalt-60	0.031 U	0.045 U	0.0146	0.0219
													Cesium-137	0.063	0.05 U	0.0518	0.0459
													Europium-152	0.068 U	0.092 U	0.0326	0.0446
													Europium-154	0.098 U	0.15 U	0.0472	0.0711
													Nickel-63	2.56 U	4.34 U	1.08	1.63

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					consisted of the underground exhaust tunnels between the 105-DR Building, the 117-DR Building, and the 116-DR Exhaust Stack.								Plutonium-238	0.037 U	0.106 U	0.024	0.0759
													Plutonium-239/240	0.037 U	0.053 U	0.0245	0.0234
													Strontium-90	0.0568 U	0.02 U	-0.003	0.00061
													Uranium-233/234	0.686	0.668	0.608	0.612
													Uranium-235	0.0983	0.52 U	0.0551	0.0499
													Uranium-238	0.918	0.857	0.573	0.612
													Arsenic	3.1	2.6	2.9	2.4
													Barium	68	65	65	58
													Cadmium	0.19	0.21	0.19	0.21
													Chromium	93	99	11	10
													Hexavalent Chromium	0.42 U	0.42 U	0.42	0.42
													Lead	7.4	4.2	6.5	9.9
													Lithium	13	14	12	9.9
													Mercury	0.02 U	0.02 U	0.02	0.02
													Selenium	0.3	0.33 U	0.3	0.33
													Silver	0.08	0.085 U	0.08	0.08
122-DR-1:3	Laboratory	100-DR-2	Not Documented	1982-1986	The 105-DR Large Sodium Fire Facility (LSFF) was established to study fire fighting and safety aspects associated with large sodium or other metal alkali fires in the Liquid Metal Fast Breeder Reactor (LMFBR) facilities. Area 3 (122-DR-1:3) consisted of a sub-grade gravel scrubber and ducts that were installed in 1982 as part of a filter development program. The scrubber allowed the offgas to bypass the 117-DR HEPA Filter Building and discharges were routed to the 116-DR-8 (aka 122-DR-	Closed Out	96-PCA-152 Ref letter 9601918	N/A	N/A	N/A	N/A	N/A	Clean closure of this area as defined in the 105-DR Large Sodium Fire Facility Closure Plan, releases this area from the requirements of the RCRA and Chapter 173-303 WAC. PER LETTER 9601918				
122-DR-1:4	Laboratory	100-DR-2	20.7 x 11.9 x 10.4	1972-1986	The 105-DR Large Sodium Fire Facility (LSFF) was established to study fire fighting and safety aspects associated with large sodium or other metal alkali fires in the Liquid Metal Fast Breeder Reactor (LMFBR) facilities. Area 4 (122-DR-1:4) consisted of the portion of the 117-DR facility used for the LSFF and the post-filtration exhaust tunnel to the 116-DR stack. Usage of the 117-DR facility prior to the LSFF is addressed by the 100-D-53 site.	Closed Out	CVP-2003-00018	Jul. 2003	Jul. 2003	Aug. 8, 2003	14, 011	4.6	Refer to 122-DR-1:2				
122-DR-1:5	Laboratory	100-DR-2	4.9 dia. x 61 high 5.3 below grade	1972-1986	The 105-DR Large Sodium Fire Facility (LSFF) was established to study fire fighting and safety aspects associated with large sodium or other metal alkali fires in the Liquid Metal Fast Breeder Reactor (LMFBR) facilities. Area 5 (122-DR-1:5) consisted of the former 116-DR exhaust stack as used for the LSFF; previous use is addressed by the 132-	Closed Out	CVP-2003-00018	Jul. 2003	Jul. 2003	Aug. 8, 2003	14,011	4.6	Refer to 122-DR-1:2				
122-DR-1:6	Laboratory	100-DR-2	3.0 x 3.0 and 3.3 to 4.6 m bgs (measurements from 116-DR-8)	1972-1986	This subsite consists of the 116-DR-8 Crib meeting RCRA requirements. The crib was originally used from 1960 to 1964 to percolate low-level waste drainage from the 117-DR Building seal pits. When used for the Large Sodium Fire Facility (LSFF), the 116-DR-8 Crib received only water reported not to have been corrosive (the pH level was less than 12.5).	Closed Out	96-PCA-152 Ref letter 9601918	N/A	N/A	N/A	N/A	N/A	This area is not believed to have received dangerous wastes from the operation of the LSFF, and is therefore considered closed for the purposes of Chapter 173-303-610. PER LETTER 9601918				

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122-DR-1:7	Laboratory	100-DR-2	Not Documented	1972-1986	The 105-DR Large Sodium Fire Facility (LSFF) was established to study fire fighting and safety aspects associated with large sodium or other metal alkali fires in the Liquid Metal Fast Breeder Reactor (LMFBR) facilities. Area 7 (122-DR-1:7) consisted of the area to the north and west of the 117-DR HEPA filter	Closed Out	96-PCA-152 Ref letter 9601918	N/A	N/A	N/A	N/A	N/A	Clean closure of this area as defined in the 105-DR Large Sodium Fire Facility Closure Plan, releases this area from the requirements of the RCRA and Chapter 173-303 WAC. PER LETTER 9601918				
126-D-1	coal ash Pit	100-DR-1	79 x 88.5 x 4 (basin structure only)	1950-1960	This site received coal ash sluiced via pipeline from the 184-D Powerhouse. Past studies have concluded that ash from Hanford Site power plants is nonradioactive and non-dangerous (DOE/RL-92-71). Additionally, ash has been determined by testing in accordance with WAC 173-303, "Dangerous Waste Regulations," to be well below concentrations required for designation as EP toxic material.	Rejected	WSRF 98-06	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
126-D-2	Inert/Demolition Landfill	100-DR-1	152.4 x 79.2 x 4.6 The length and depth of this site is also reported as 88.4 m and 4.1 m, respectively.	1943-1986	The site is an excavated pit that originally was used to store coal for the 184-D Powerhouse. It was later used as a demolition and inert waste landfill. This unit is full of debris and covered with about 0.3 m of backfill material. In the 1970s, the coal pit was used for the disposal of solid waste. The coal pit received materials from D&D activities for about 20 years. The site has also received waste from the 100-N Area and from the 189-D Maintenance Facility.	Interim Closed	CVP-2009-00007	May. 29, 2007 and Oct. 19, 2009	Oct. 6, 2008 and Mar. 16, 2010	Oct. 19, 2009 Feb. 23, and Mar. 16, 2010	43,979 BCM	Ranged from 3 to 5.5		Excavation			Stockpile	
														Maximum	95% UCL	Focused Samples Max only	Maximum	95% UCL
													Antimony	0.66 J	0.79	0.62	0.90 B	0.83
													Arsenic	3.2	2.5	3	2.9	2.6
													Barium	120 L	87	120	92	82
													Beryllium	0.94 B	0.75	0.63	0.87	0.8
													Boron	6.9	3.1	7.9	3	2.1
													Cadmium	0.043	/	/	/	/
													Chromium Total	10 L	8.1	7.8	8.5 L	7.9
													Cobalt	12 L	11	9.7	9.3 L	8.8
													Copper	16	14	14	14 L	13
													Lead	5.1	4.2	72	4	3.6
													Manganese	140 L	355	360	330 L	314
													Mercury	0.039	0.013	0.023	0.011 B	0.0094
													Molybdenum	0.35	/	0.33	041 BM	0.29
													Nickel	14 L	12	12	12 L	10
													Vanadium	90 L	80	76	65 L	62
													Zinc	60 L	53	50	45 L	42
													2-methylnaphthalene	/	/	0.0915	/	/
													Acenaphthene	/	/	0.24	/	/
													Anthracene	0.013	/	0.00924	/	/
													benzo(a)anthracene	0.027	/	0.0351	0.013 JX	0.012
													benzo(a)pyrene	0.027	/	0.0351	0.0084 J	/
													benzo(b)fluoranthene	0.038	0.016	0.0241	0.01 J	/
													benzo(ghi)perylene	0.05	/	/	/	/
													benzo(k)fluoranthene	0.027	/	0.0161	0.0062 J	/
													Chrysene	0.086	0.031	0.0227	0.02 J	/
													Dibenz[a,h]anthracene	0.026	/	/	/	/
													Dimethyl phthalate	/	/	/	0.058 J	/
													Fluoranthene	0.058	/	0.221	/	/
													Fluorene	/	/	0.0632	/	/
													Indeno(1, 2, 3-	0.00596	/	0.013	0.016 J	/
													Naphthalene	0.014 JX	/	0.105	/	/
													Phenanthrene	0.067	/	0.137	0.02 J	/
													Pyrene	0.073	0.097	0.0638	0.027 J	/
													DDE, 4, 4'-	0.027	0.0066	0.0029	2.8	0.002
													DDT, 4, 4'-	0.100 XDJ	0.023	0.075	0.00088 J	/
													Delta - BHC	0.00045 JX	/	0.00068	/	/
													Dieldrin	0.00042 JX	/	/	/	/
													Endosulfan II	/	/	0.00039	/	/
													Endrin aldehyde	/	/	0.00081	/	/
													Chlordane (alpha)	0.00057 J	/	/	/	/
													Chlordane (gamma)	0.00049 J	/	0.00031	/	/
													Heptachlor epoxide	0.0078 X	/	0.0058	/	/

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													Aroclor-1260	0.0052 JP	/	/	/	/	
													Methoxychlor	/	/	0.00086	/	/	
													TPH-diesel	/	/	69	/	/	
													TPH-diesel extended	/	/	160	/	/	
126-D-3	Sump	100-DR-1	9.45 x 5.49 x 3.66	Not Documented	These salt-dissolving pits and brine pump pit were part of a single, belowgrade concrete structure that provided brine for the 184-D Powerhouse. The brine was used to regenerate the zeolite ion exchange demineralizers that were part of the powerhouse water treatment system. The site was demolished in situ in March 1988. before demolition, the pits were surveyed for radiological and nonradiological hazardous materials. The water analysis from the salt-dissolving pits indicated no radioactivity above background and no reportable concentrations of heavy metals. The sodium chloride concentrations were greater than 10 percent (hazardous material limit). The dissolving pits also contained approximately 6.3 m3 (8.3 yd3) of salt cake (sodium chloride). Northwest Environmental Services, Inc., removed water and salt cake from the pits and disposed of them as hazardous waste. Holes were punched into the bottom of the pits to facilitate drainage. The pits were then partially backfilled with	Rejected	WSRF 97-004	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
126-DR-1	Dumping Area	100-DR-2	9.45 x 5.49 x 3.66	After 1978	This site originally contained four 1.42E+07 L (3.75E+06 gal) steel water tanks that have been removed. The site was subsequently used as a burial ground. The waste site contains demolition and inert waste from demolished facilities, including rubble from released portions of the 115-D/DR, and some rubble from 183-DR. The debris was removed during the site remediation and the pads and surrounding soils (including sidewalls) will be remediated as part of the 100-D-50:6 waste site.	Interim Closed	WSRF/RSVP-2008-046	4/5/2007	7/24/2008	No verification samples	23,790	N/A	RSVP-2008-046, Pg 8 under IN-PROCESSING SAMPLING states: "Verification sampling was not conducted at the 126-DR- I Waste Site because it is located entirely above areas planned for remediation (Figure 9). Underlying pipelines are planned for remediation as the 100-D–50:6 waste site. Samples were collected from the 190-DR Clearwell concrete pads and surrounding soils and analyzed for hexavalent chromium (Table 1, Figure 10). The concrete samples were also analyzed by inductively coupled metal analysis. The results show that the surface of the concrete for all four pads is contaminated with hexavalent chromium above direct exposure remedial action goals (RAGs) (Appendix A).								
128-D-1	Burn Pit	100-DR-2	30.48 x 30.48 x 3.05	1944-1967	Review of historical information and physical site observation indicates that this burn pit does not exist. This site is a duplicate of either 628-3 or 128-D-2 burn pits.	No Action	WSRF 2003-009	N/A	N/A	N/A	N/A	N/A	The Waste Site Evaluation for 128-D-1 Burn Pit (Calculation No. 0100D-CA-V0126) (BHI 2003), demonstrates that the historical data available for the 128-D-1 is of sufficient quality and quantity to support the no action interim closure. based on the description in the technical baseline report (Carpenter 1993), a field walkdown, geophysical surveys (March 2003), and aerial photos from 1956, 1960, and 1988, it has							
128-D-2	Burn Pit	100-DR-1	73.2 x 73.2	Not Documented	Large landfill area that shows evidence of surface burning. Some pieces of uncontaminated reactor hardware were found at the site.	Interim Closed	WSRF/RSVP-2011-035	22-Jul-09	14-Jan-10	7-Mar-11	39,579	~5	Cesium-137	/	/	0.0451	/		
													Strontium-90	/	/	0.0913	/		
													Arsenic	/	/	2.9	/		
													Barium	/	/	83.1	/		
													Beryllium	/	/	0.21	/		
													Boron	/	/	2.1	/		
													Cadmium	0.088	/	0.14	/		
													Chromium	/	/	11.5	/		
													Cobalt	/	/	7.6	/		
													Copper	/	/	15.2	/		
													Hexavalent chromium	0.154	/	/	/		
													Lead	/	/	4.7	/		
													Manganese	/	/	342	/		
													Mercury	/	/	0.0.034	/		
													Molybdenum	0.35	/	/	/		
													Nickel	/	/	11.9	/		

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													Selenium	1.1	/	/	/
													Silver	0.19	/	/	/
													Vanadium	/	/	53.6	/
													Zinc	/	/	45.5	/
													4,4"DDE	/	0.00051	/	/
													Acetone	0.0092	/	/	/
													Aroclor-1260	0.036	/	/	/
													Benzo(a)pyrene	0.077			
													Benzo(b)fluoranthene	0.032	/	/	/
													Benzo(ghi)perylene	0.0028	/	/	/
													Bis(2-ethylhexyl)phthalate	0.081	/	/	/
													Chloroform	0.087	/	/	/
													Diethyl phthalate	0.4	/	/	/
													Dimethyl phthalate	0.05	/	0.086	/
													Ethyl benzene	0.00064	/	/	/
													Methylene chloride	0.002	/	/	/
													Toluene	0.0014	/	/	/
													TPH-diesel range	28	/	/	/
													TPH-diesel range- EXT	3.3	/	15.132	/
													Xylenes (total)	2.7	/	/	/
130-D-1	Storage Tank	100-DR-1	3.7 x 1.2 (dia.)	1944-1968	Site had been a steel UST with a capacity of 15,140 L (4,000 gal). Tank was removed in 1989. Tank was used for storage of leaded gasoline. Site was contaminated with petroleum hydrocarbons. Site was backfilled with clean soil without removal of contaminated soil.	Interim Closed	WSRF/RSVP-2011-045	21-Jul-10	15-Apr-11	1-Feb-11	N/A	3.5	Arsenic	/	/	2.9	/
													Barium	/	/	83.1	/
													Beryllium	/	/	0.21	/
													Boron	/	/	2.1	/
													Cadmium	0.088	/	0.14	/
													Chromium	/	/	11.5	/
													Cobalt	/	/	7.6	/
													Copper	/	/	15.2	/
													Hexavalent chromium	0.154	/	/	/
													Lead	/	/	4.7	/
													Manganese	/	/	342	/
													Mercury	/	/	0.0.034	/
													Molybdenum	0.35	/	/	/
													Nickel	/	/	11.9	/
													Vanadium	/	/	53.6	/
													Zinc	/	/	45.5	/
													4,4"DDE	/	0.00051	/	/
													Acetone	0.0092	/	/	/
													Methylene chloride	0.036	/	/	/
													Toluene				
													1,1-dichloroethene				
													Acenaphthene				
													Benzo(a)anthracene				
													Benzo(a)pyrene	0.077			
													Benzo(b)fluoranthene	0.032	/	/	/
													Benzo(ghi)perylene	0.0028	/	/	/
													Bis(2-ethylhexyl)phthalat	0.081	/	/	/
													Benzo(k)fluoranthene	0.087	/	/	/
													Chrysene				
													Indeno(1,2,3-cd)pyrene				
													Phenanthrene				
													Pyrene				
													Bis(2-				

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													Diethyl phthalate	0.4	/	/	/
													Aroclor-1260	0.05	/	0.086	/
132-D-1	Process Unit/Plant	100-DR-1	51.2 x 29.9 x 3.4 46 x 20	1944-1967	The facility was built in 1943 to house the equipment used to recirculate, filter, dry, and inject the cover gases for the 105-D and 105-DR Reactor cores. The concrete facility was demolished in place in 1986 using allowable residual contamination level (ARCL) methodology.	Interim Closed	WSRF/RSVP-2005-037	Mar-10	Mar-11	Jun-11	11, 370 BCM	4.5	Carbon-14	/	/	0.385	/
													Cesium-137	/	/	0.086	/
													Tritium	/	/	0.474	/
													Uranium-233/234	/	/	0.223	/
													Uranium-238	/	/	0.197	/
													Arsenic	/	/	2.600	/
													Barium	/	/	63.300	/
													Boron	1.300	/	/	/
													Cadmium	/	/	0.059	/
													Chromium (total)	/	/	6.900	/
													Cobalt	/	/	10.500	/
													Copper	/	/	16.600	/
													Hexavalent chromium	0.164		/	/
													Lead	/	/	5.100	/
													Manganese	/	/	314.000	/
													Mercury	/	/	1.700	/
													Molybdenum	0.580	/	/	/
													Nickel	/	/	9.400	/
													Selenium	0.860	/	/	/
													Vanadium	/	/	70.100	/
													Zinc	/	/	48.200	/
													Aroclor-1254	6.300	/	/	/
													Aroclor-1260	230.000	/	/	/
													Benzo(b)fluoranthene	4.000	/	/	/
													Chrysene	4.900		/	/
													Staging Pile				
													Cesium-137	/	/	0.152	/
													Tritium	/	/	0.041	/
													Uranium-233/234	/	/	0.200	/
													Uranium-238	/	/	0.173	/
													Arsenic	/	/	3.540	/
													Barium	/	/	65.900	/
													Beryllium	0.051	/	/	/
													Boron	1.500	/	/	/
													Cadmium	/	/	0.092	/
													Chromium (total)	/	/	8.500	/
													Cobalt	/	/	9.200	/
													Copper	/	/	16.000	/
													Hexavalent chromium	0.186	/	/	/
													Lead	/	/	6.900	/
													Manganese	/	/	300.000	/
													Mercury	/	/	4.400	/
													Molybdenum	0.240	/	/	/
													Nickel	/	/	10.800	/
													Vanadium	/	/	57.900	/
													Zinc	/	/	48.600	/

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													Aroclor-1248	0.035	/	/	/
													Aroclor-1254	0.010	/	/	/
													Aroclor-1260	0.048	/	/	/
													Bis(2-ethylhexyl)phthala	/	/	0.082	/
													Diethyl phthalate	/	/	0.450	/
													Di-n-octylphthalate	0.087	/	/	/
													Anthracene	/	/	0.036	/
													Benzo(a)anthracene	/	/	1.369	/
													Benzo(a)pyrene	/	/	0.047	/
													Benzo(b)fluoranthene	/	/	0.059	/
													Benzo(ghi)perylene	/	/	0.047	/
													Benzo(k)fluoranthene	/	/	0.270	/
													Chrysene	/	/	0.745	/
													Dibenz(a,h)anthracene	0.054		/	/
													Fluoranthene	/	/	1.321	/
													Fluorene	0.068	/	/	/
													Indeno(1,2,3-cd)pyrene	/	/	0.069	/
													Phenanthrene	/	/	0.114	/
													Pyrene	/	/	17.000	/
132-D-2	Process Unit/Plant	100-DR-1	18 x 11.9 x 8.2 (high)	1961-1967	Concrete structure built to receive exhaust discharges from the 105-D Reactor and filter the exhaust before the exhaust stack release into the atmosphere. The facility was demolished in 1986.	Interim Closed	WSRF/RSVP-2005-024	N/A	N/A	N/A	N/A	Demolition rubble buried under 1m of clean fill dirt and rubble from seal pits buried under 5m of clean fill dirt.		1985 activities	decayed to 2005		
													Carbon-14	573	572		
													Cesium-137	3,230	2,040		
													Cobalt-60	1370	98.7		
													Europium-152	64	23		
													Tritium (H-3)	688	223		
													Plutonium-239	15	15		
													Strontium-90	561	348		
132-D-3	Pump Station	100-DR-1	6.1 x 6.1 x 9.75	1944-1965	Received liquid waste from reactor drains containing low-level radionuclides, sodium fluoride, oxalic acid, and citric acid. concrete structure that extended 9.8 m (32 ft) below grade and 1.2 m (4 ft) above grade. Demolished in place in 1986 and 1987.	Interim Closed	WSRF/RSVP-2005-033	Dec. 1996	N/A	N/A	N/A	rubble buried in situ under 1m of clean fill dirt		1985 activities	decayed to 2005		
													Carbon-14	14	13.9		
													Cesium-137	10,100	6,527		
													Cobalt-60	1,630	134		
													Europium-152	4,520	1,701		
													Europium-154	599	129		
													Tritium (H-3)	19	6.5		
													Plutonium-239	98.5	98.3		
													Strontium-90	156	99.2		
132-D-4	Stack	100-DR-1	5.05 dia.	1944-1967	Site contains concrete rubble from demolition of the 105-D Reactor Stack. The stack was used to exhaust confinement air from the work areas of the 105-D Reactor and was demolished in 1999. The stack and its foundation were demolished with explosives and buried in a trench.	Interim Closed	WSRF 2005-022 CVP-2005-00003	N/A	N/A	N/A	N/A	N/A	The 105-D Reactor Stack Foundation (132-D-4) did not require sampling and analysis based on the Environmental Restoration Disposal Facility waste profile developed from the 105-DR Reactor project and data from other stack demolition activities. It was removed to 0.9 m below grade at the same time the stack was demolished and disposed of at ERDF.					
132-DR-1	Pump Station	100-DR-2	10.97 x 10.4 x 8.53	1950-1964	This facility functioned as a sump to collect radioactive liquid wastes from the 105-DR Reactor to be discharged to the 107-D/DR Retention basin.	Interim Closed	WSRF/RSVP-2005-035	1987	1987	1987	N/A	Structure was demolished to at least 5m below grade with the resulting rubble buried in situ.		1987 activities	decayed to 2005		
													Carbon-14	9.28	9.26	/	/
													Cesium-137	6,090	4,016	/	/
													Cobalt-60	1,120	105	/	/
													Europium-152	4,160	1,631	/	/
													Europium-154	805	195	/	/
													Tritium (H-3)	35.1	10.24	/	/
													Plutonium-239/240	198.4	198.3	/	/
													Strontium-90	4,966	3,233	/	/

Table E1. Waste Site Description and History with Associated Interim Action Closeout Data

Site Code	Site Type	Operable Unit	Site Dimensions (m)	Dates of Operation	Site History	Class Status	Decision/ Closeout 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	Maximum Concentration (pCi/g, mg/kg) Shallow[a]	Maximum Concentration (pCi/g, mg/kg) Deep[b]	95% UCL (pCi/g, mg/kg) Shallow[a]	95% UCL (pCi/g, mg/kg) Deep[b]
132-DR-2	Stack	100-DR-2	60.9 x 5.05 dia.	1950-1964	Former 116-DR exhaust stack for the 105-DR Reactor and, subsequently, the Large Sodium Fire Facility (LSFF). Usage for the LSFF is addressed by the	Interim Closed	WSRF 2003-053 CVP-2003-00018	Jul. 2003	Jul. 2003	Aug. 8, 2003	14, 011	4.6	Refer to 122-DR-1:2				
1607-D1	Septic Tank	100-DR-2	4.27 x 2.13 x 3.4	1944-1965	This site is a concrete tank (capacity of 16,250 L) with drain field that received sanitary sewage from 1701-D badge house and 1709-D Fire Headquarters Building.	Interim Closed	WSRF 2011-120	Dec-10	Feb-11	Dec-11	3705 BCM	3.5	Arsenic	/	/	3.83	/
													Barium	/	/	68.54	/
													Beryllium	/	/	0.25	/
													Boron	1.70	/	1.25	/
													Cadmium	/	/	0.08	/
													Chromium (total)	/	/	13.38	/
													Cobalt	/	/	5.73	/
													Copper	/	/	12.92	/
													Lead	/	/	4.19	/
													Manganese	/	/	283.07	/
													Mercury	0.01	/	/	/
													Nickel	/	/	11.73	/
													Vanadium	/	/	38.13	/
													Zinc	/	/	35.74	/
													Chloride	3.70	/	/	/
													Fluoride	0.99	/	/	/
													Nitrate as Nitrogen	2.70	/	1.02	/
													rate and Nitrite as Nitrog	3.30	/	1.19	/
													Sulfate	3.10	/	4.06	/
													Bis(2-ethylhexyl)phthalat	/	/	0.09	/
													Dimethyl phthalate	/	/	0.18	/
1607-D2:1	Septic Tank	100-DR-1	36 x 35	1944-1950	The 1607-D2:1 subsite was the original 1944 septic tile field for the 1607-D2 septic system. This tile field was abandoned and partially removed for construction of the 116-DR-9 retention basin in 1950.	Interim Closed	WSRF 98-035 CVP-98-00005	Jan. 8, 1998	Feb. 4, 1998	Not documented in the CVP	10,040	3.4	Europium-152	0.0295 U	/	/	/
													Uranium-235	0.0464 J	/	/	/
													Uranium-238	0.762 J	/	/	/
													Hexavalent Chromium	0.030 UJ	/	/	/
													Lead	1.9	/	/	/
													Mercury	0.021 U	/	/	/
													PCBs(1260)	0.040 U	/	/	/
1607-D2:2	Septic Tank	100-DR-1	Not Documented	1950-1996	The 1607-D2:2 subsite was the drain field put into service in 1950 to replace the original drain field (1607-D2:1) and was used until 1996.	Interim Closed	WSRF 2009-036 CVP-2009-00006	Apr. 7, 2008	Apr. 23, 2008	Oct. 7 to Dec. 16, 2008 and on May 4,2009 only for Mercury	3,471 BCM	<4.6	Cesium-137	0.354	/	0.12	/
													Uranium-233/234	1.13	/	0.823	/
													Uranium-238	1.2	/	0.907	/
													Antimony	1.9	/	1.2	/
													Arsenic	4.1	/	3.5	/
													Barium	402	/	158	/
													Beryllium	0.4	/	0.3	/
													Boron	2.6	/	2	/
													Cadmium	0.6	/	0.4	/
													Chromium Total	34.0 B	/	19.2	/
													Hexavalent Chromium	0.3	/	0.3	/
													Cobalt	8.3	/	7.9	/
													Copper	44.7	/	24.8	/
													Lead	17.8 B	/	8.2	/
													Manganese	370	/	344	/
													Mercury	1.24	/	0.383	/
													Molybdenum	1.0 B	/	0.6	/
													Nickel	14.8	/	13.3	/
													Silver	11.8	/	11.8	/
													Vanadium	74.3	/	68.2	/
													Zinc	157	/	88.3	/
													Chloride	14.3	/	5.3	/
													Nitrate (as nitrogen)	74.2 D	/	515	/
													Sulfate	84.5	/	115	/
													Aroclor-1254	11.9 J	/	0.447	/
													Aroclor-1260	6.64 J	/	0.188	/
1607-D2:3	Septic Tank	100-DR-1	235 linear m	1944	The 1607-D2:3 subsite includes the	Interim Closed	WSRF 2000-069	Aug. 20, 1999	Aug. 30, 1999	Verification	Not Documented	4.6		Shallow		Overburden	

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					pipeline between the end of the 100-D-31:1 pipeline and the 1607-D2:4 septic tank and between that septic tank and the 1607-D2:5 pipeline.		CVP-2000-00004			samples Nov. 30, 1999 Overburden Dec. 9, 1999				Maximum	95% UCL	Maximum	95% UCL
													Cesium-137	0.067	0.0445	0.265	/
													Cobalt-60	0.062 U	0.0473	0.075	/
													Europium-152	0.217	0.145	0.616	/
													Hexavalent Chromium	0.44 U	0.44 U	0.44 U	/
													Chromium Total	10	9.4	8.4	/
													Mercury	0.11 U	0.05	0.02 U	/
													Lead	5.3	4.8	8.3	/
1607-D2:4	Septic Tank	100-DR-1	8.1 x 3.7 x 4.1	1944-1996	The 1607-D2:4 subsite includes the 1607-D2 septic tank that formerly services the 105-D, 182-D, 183-D, 185-D, 189-D, 190-DA, and various 1700-D series facilities.	Interim Closed	WSRF 99-043 CVP-99-00005	Jul. 17, 1998	Oct. 27, 1998		2,041	4.7	Chromium Total	6.1	/	6	/
													Mercury	0.02 U	/	0.02 U	/
													Lead	4	/	3.5	/
1607-D2:5	Septic Tank	100-DR-1	55 linear m	1944-1994	The 1607-D2:5 subsite consists of a pipeline segment that was not previously included in other subsites, extending from the end of the 1607-D2:3 pipeline (approximately at the perimeter road) north to the 1607-D2:2 subsite	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1607-D3	Septic Tank	100-DR-2	1.83 x .91 x 3	1944-2000	This site is a concrete tank with drain field. Received 3,970 L (1,048 gal)/day sanitary sewage from the 151-D Electrical Distribution Substation.	Closed Out	WSRF 2000-122	N/A	N/A	N/A	N/A	N/A	All contents removed from tank and was abandoned in accordance with WAC 246-272-18501 and closed out.				
1607-D4	Septic Tank	100-DR-1	0.6 x 1.2 x 2.5	1944-1968	This site is a concrete tank with drain field. Received sanitary sewage from 115-D/DR Gas Recirculation Building.	Interim Closed	WSRF/RSVP-2005-036	N/A	N/A	confirmatory sampling done on Jul. 5, 2005	N/A	N/A	Uranium-233/234	0.53	/	/	/
													Uranium-235	0.024	/	/	/
													Uranium-238	0.53	/	/	/
													Antimony	0.48	/	/	/
													Arsenic	4.2	/	/	/
													Barium	54 C	/	/	/
													Beryllium	0.9	/	/	/
													Boron	2.7 C	/	/	/
													Cadmium	0.35	/	/	/
													Chromium Total	8.8 C	/	/	/
													Cobalt	7.4	/	/	/
													Copper	16.4	/	/	/
													Lead	5 C	/	/	/
													Manganese	269 C	/	/	/
													Mercury	0.07 C	/	/	/
													Molybdenum	0.34	/	/	/
													Nickel	11.2	/	/	/
													Uranium (total)	1.58	/	/	/
													Vanadium	54.5	/	/	/
													Zinc	44.2	/	/	/
													Nitrate (as nitrogen)	2.6	/	/	/
													Sulfate	5.2	/	/	/
													Aroclor-1254	0.034	/	/	/
													Di-n-butylphthalate	0.08 JB	/	/	/
1607-D5	Septic Tank	100-DR-1	1.2 x 0.6	1944-1998	This site is a concrete tank (capacity of 130 L [35 gal]) with drain field. Received sanitary sewage from the 181-D Pump House.	Interim Closed	WSRF-2011-070	Oct-10	Oct-10	Apr-11	500 BCM	3.3	Arsenic	/	/	3.54	/
													Barium	/	/	1119.35	/
													Beryllium	/	/	1.55	/
													Boron	/	/	270.48	/
													Cadmium	/	/	0.10	/
													Chromium (total)	/	/	10.14	/
													Cobalt	/	/	10.10	/
													Copper	/	/	32.83	/
													Lead	/	/	55.63	/
													Manganese	/	/	327.79	/
													Mercury	/	/	0.05	/
													Molybdenum	/	/	2.00	/

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													Nickel	/	/	14.58	/
													Vanadium	/	/	72.03	/
													Zinc	/	/	43.80	/
													TPH - diesel range	/	/	26000.00	/
													TPH - diesel range EXT	/	/	42000.00	/
													Nitrate as Nitrogen	/	/	4.30	/
													Nitrate and Nitrite as Nit	/	/	6.70	/
													Sulfate	/	/	8.04	/
													4,4'-DDE	/	/	0.06	/
													4,4'-DDT	/	/	0.01	/
													alpha-Chlordane	0.001	/	/	/
													gamma-Chlordane	0.001	/	/	/
													Acenaphthylene	0.100	/	/	/
													Anthracene	/	/	0.08	/
													Benzo(a)anthracene	/	/	11.20	/
													Benzo(a)pyrene	/	/	0.86	/
													Benzo(b)fluoranthene	/	/	1.41	/
													Benzo(ghi)perylene	0.120	/	/	/
													Benzo(k)fluoranthene	/	/	0.47	/
													Carbazole	0.048	/	/	/
													Chrysene	/	/	4.89	/
													Dibenz(a,h)anthracene	0.099	/	/	/
													Fluoranthene	/	/	5.40	/
													Fluorene	0.340	/	/	/
													Indeno(1,2,3-cd)pyrene	0.510	/	/	/
													Phenanthrene	/	/	0.04	/
													Pyrene	/	/	3.93	/
													2,4-Dinitrophenol	0.370	/	/	/
													2-Methylnaphthalene	0.034	/	/	/
													Aroclor-1254	0.012	/	/	/
600-30	Dumping Area	100-DR-2	213 x 183	Not Documented	Based on physical and photograph evidence, this site appears to have been a lay-down yard during construction of 105-DR. Waste consists of broken sheet asbestos, buckets of tar, steel, galvanized pipe, rebar, angle iron, and so forth. There is also evidence of burning throughout the unit.	Interim Closed	WSRF-2011-055	Oct-08	Mar-11	Mar-11	7,400 BCM	1.5	Arsenic	/	/	3.25	/
													Barium	/	/	89.23	/
													Beryllium	/	/	0.29	/
													Boron	/	/	2.43	/
													Cadmium	/	/	0.11	/
													Chromium (total)	/	/	11.21	/
													Cobalt	/	/	7.89	/
													Copper	/	/	15.20	/
													Hexavalent chromium	0.27	/	—	/
													Lead	/	/	4.74	/
													Manganese	/	/	360.11	/
													Molybdenum	/	/	0.39	/
													Nickel	/	/	11.46	/
													Vanadium	/	/	49.07	/
													Zinc	/	/	43.69	/
													TPH - motor oil	6.41	/	/	/
													Bis(2-ethylhexyl)phthalate	0.41	/	/	/
													Excavation Area 1				
													Arsenic	/	/	3.21	/
													Barium	/	/	85.73	/
													Beryllium	/	/	0.09	/

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													Boron	/	/	1.41	/
													Cadmium	/	/	0.10	/
													Chromium (total)	/	/	12.03	/
													Cobalt	/	/	9.12	/
													Copper	/	/	17.29	/
													Hexavalent chromium	0.36	/	/	/
													Lead	/	/	4.04	/
													Manganese	/	/	349.29	/
													Mercury	/	/	0.01	/
													Molybdenum	0.39	/	/	/
													Nickel	/	/	12.54	/
													Silver	0.17	/	/	/
													Vanadium	/	/	57.00	/
													Zinc	/	/	42.68	/
													TPH - diesel range	0.82	/	/	/
													TPH - motor oil	1.70	/	/	/
													Bis(2-ethylhexyl)phthalat	/	/	0.10	/
													Excavation Area 2				
													Antimony	0.43	/	/	/
													Arsenic	/	/	2.87	/
													Barium	/	/	65.38	/
													Beryllium	0.07	/	/	/
													Boron	1.70	/	/	/
													Cadmium	/	/	0.07	/
													Chromium (total)	/	/	7.90	/
													Cobalt	/	/	10.66	/
													Copper	/	/	18.04	/
													Hexavalent chromium	0.34	/	/	/
													Lead	/	/	7.68	/
													Manganese	/	/	347.38	/
													Mercury	0.01	/	/	/
													Molybdenum	0.26	/	/	/
													Nickel	/	/	12.12	/
													Vanadium	/	/	67.39	/
													Zinc	/	/	43.86	/
													TPH - diesel range	2.00	/	/	/
													TPH - motor oil	8.80	/	/	/
													Bis(2-ethylhexyl)phthalate	0.09	/	/	/
													Focus Samples				
													Antimony	0.35	/	/	/
													Arsenic	3.59	/	/	/
													Barium	99.10	/	/	/
													Beryllium	0.32	/	/	/
													Boron	2.46	/	/	/
													Cadmium	0.13	/	/	/
													Chromium (total)	11.80	/	/	/
													Cobalt	10.30	/	/	/
													Copper	18.30	/	/	/
													Hexavalent chromium	0.27	/	/	/
													Lead	10.80	/	/	/
													Manganese	382.00	/	/	/
													Molybdenum	0.40	/	/	/
													Nickel	12.70	/	/	/
													Vanadium	62.20	/	/	/
													Zinc	46.60	/	/	/
													TPH - motor oil	52.50	/	/	/
													Aldrin	0.00	/	/	/
628-3	Burn Pit	100-DR-1	130 x 123	Not documented	The depression shows signs of severe plant stress and soil discoloration. The depression, as well as the area around it, is littered with debris.	Interim Closed	WSRF 2010-043	Mar-09	Jun-09	Nov-10	76657	4.6	Antimony	3.15	/	/	/
													Arsenic	/	/	2.46	/
													Barium	/	/	58.2	/
													Beryllium	/	/	0.188	/
													Boron	/	/	1.23	/
													Cadmium	/	/	0.134	/
													Chromium (total)	/	/	11.1	/

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													Cobalt	/	/	6.65	/
													Copper	/	/	15.5	/
													Lead	/	/	9.69	/
													Manganese	/	/	282	/
													Mercury	0.244	/	/	/
													Molybdenum	/	/	0.379	/
													Nickel	/	/	9.7	/
													Vanadium	/	/	10.4	/
													Zinc	/	/	43	/
													TPH - motor oil	20.6	/	/	/
													Acenaphthene	0.0178	/	/	/
													Benzo(a)anthracene	0.004	/	/	/
													Benzo(a)pyrene	0.0037	/	/	/
													Benzo(b)fluoranthene	0.00584	/	/	/
													Benzo(ghi)perylene	0.00428	/	/	/
													Benzo(k)fluoranthene	0.0021	/	/	/
													Chrysene	0.008	/	/	/
													Fluoranthene	0.0827	/	/	/
													Indeno(1,2,3-cd)pyrene	0.00561	/	/	/
													Phenanthrene	0.0062	/	/	/
													Pyrene	0.0036	/	/	/
													Aldrin	0.00146	/	/	/
UPR-100-D-1	Unplanned Release	100-DR-1	0.61 (diameter)	Not Documented	The site was an unplanned release that appeared as a small depression surrounded by oil contaminated soil. based on historical documentation and site walkdown, a reclassification status of no action is assigned.	No Action	WSRF 2005-020	N/A	N/A	N/A	N/A	N/A	WIDS describes the UPR-100-D-1 site as an unplanned release that appears as a small depression surrounded by oil-stained soil (approx 2 ft in dia.). The source could not be determined. A site walkdown discovered the oil-stained soil is no longer visible and the area is highly disturbed.				
UPR-100-D-2	Unplanned Release	100-DR-1	Varies	1951	Site was an unplanned release from the 100-D-48:2 pipelines.	Interim Closed	WSRF 2000-062 CVP-2000-00005	Jul. 1997	Aug. 1999	Aug. 23, 1999 to Oct. 20, 1999	57,106	6	Cobalt-60	0.154	7.58	0.0437[a]	1.72[a]
													Cesium-137	40.6	61.6	0.499[a]	7,530[a]
													Europium-152	2.21	24.4	0.4[a]	327[a]
													Europium-154	0.894	2.93	0.11[a]	1.44[a]
													Plutonium-239/240	0.046	0.63 J	0.04[a]	0.103[a]
													Strontium-90	0.42	1.77 J	0.21[a]	0.692[a]
													Uranium-233/234	0.748	0.854 J	0.47[a]	0.49[a]
													Uranium-238	0.783	8.06 J	0.45[a]	0.52[a]
													Hexavalent Chromium	0.42	3.65	0.42[a]	1.3[a]
UPR-100-D-3	Unplanned Release	100-DR-1	Varies	1951	Site was an unplanned release from the 100-D-49:2 pipelines.	Interim Closed	WSRF 2000-063 CVP-2000-00005	Jul. 1997	Aug. 1999	Aug. 23, 1999 to Oct. 20,	57,106	6	Refer to 100-D-48:2				
UPR-100-D-4	Unplanned Release	100-DR-1	Varies	1950	Site was an unplanned release from pipelines 100-D-48 and 100-D-49.	Interim Closed	WSRF 2000-034 CVP-2000-00003	Dec. 28, 1998	Jul. 24, 2000	Apr. 3 to Aug. 8, 2000	107,266	6	Cobalt-60	0.061 U	7.33	0.05	5.29
													Cesium-137	0.809	39.5	0.251	28.2
													Europium-152	0.402	64.2	0.3	34.2
													Europium-154	0.15 U	8.01	0.12	4.25
													Plutonium-239/240	0.24 U	1.31	0.13	0.449
													Strontium-90	0.196 J	1.14	0.15	0.607
													Uranium-233/234	0.713 J	0.933 J	0.5	0.57
													Uranium-238	0.676 J	0.873 J	0.42	0.554
													Hexavalent Chromium	0.64 U	5	0.64	5

Site Code	COC	Excavation Maximum	Excavation 95% UCL	Excavation Focused Samples Max only	North Overburden Maximum	North Overburden 95% UCL	West Overburden Max	West Overburden 95% UCL
UPR-100-D5	Cesium-137	0.74	0.03	/	0.066	0.027	/	/
	Strontium-90	/	/	/	2.18	0.677	0.59	0.121
	Uranium-233/234	0.627	0.472	/	0.554	/	0.782	/
	Uranium-238	0.67	0.518	0.382	0.762	0.545	0.695	0.563
	Antimony	/	/	/	0.543	0.543	/	/
	Arsenic	2.96	2.59	2.11	2.72	2.37	6.01	2.95
	Barium	76.3	66.4	50.2	88.6	65.1	206	93.9
	Beryllium	0.239	0.201	0.146	0.197	0.175	0.221	0.19
	Boron	3.47	1.52	0.744	2.09	1.27	1.37	1.01
	Chromium Total	13.6	8.42	5.56	7.04	6.09	8.24	6.74

Site Code	Site Type	Operable Unit	Site Dimensions (m)	Dates of Operation	Site History	Class Status	Decision/ Closeout 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)
UPR-100-D5	Unplanned Release	100-DR-1	449.7 m^2	1951	This site is an unplanned release of effluent water from the reactor cooling water (effluent line leak No. 4) and is located southeast of 116-DR-9 (107DR Retention basin).	No Action	WSRF/RSVP-2009-035	Mar. 7, 2008	Apr. 3, 2008	July 6-7, 2009	0	4.6

Table E1. Waste Site Description and History with Associated Interim Action Closeout Data

Site Code	Site Type	Operable Unit	Site Dimensions (m)	Dates of Operation	Site History	Class Status	Decision/ Closeout 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	Maximum Concentration (pCi/g, mg/kg) Shallow[a]	Maximum Concentration (pCi/g, mg/kg) Deep[b]	95% UCL (pCi/g, mg/kg) Shallow[a]	95% UCL (pCi/g, mg/kg) Deep[b]			
													Hexavalent Chromium	0.17	0.17	/	0.19	0.19	0.17	0.17
													Cobalt	9.28	8.42	7.24	9.08	8.05	9.32	8.57
													Copper	23	15.6	12.8	13.8	13.2	15.8	14.5
													Lead	3.42	2.85	2.2	2.97	2.54	3.55	2.95
													Manganese	360	311	254	434	320	1120	479
													Molybdenum	0.368 B	0.333	0.33	0.396 B	0.364	0.531 B	0.417
													Nickel	11.6	10.3	12	11.7	9.41	10.2	8.61
													Selenium	/	/	/	0.236	0.236	/	/
													Silver	0.17	0.17	/	/	/	0.218	0.175
													Vanadium	72.4	66.4	60.1	70.8	66.2	73.8	68.3
													Zinc	51.6	45.6	40.6	43.5	42.5	49.3	46.3
													Aroclor-1260	/	/	/	/	/	0.00434	0.00434
100-H-1	Storage	100-HR-1	12.2 x 2.1 x 1.4	1949-1965	Site was used during the operation of the 105-H Reactor for temporary storage of irradiated reactor control rods and tools used in rod removal and installation.	Interim Closed	WSRF 2001-007 CVP-2000-00029	Oct. 19, 1999	Jul. 21, 2000	Jul. 17 to Dec. 12, 2000	32,725	5.6	Refer to 100-H-22							
100-H-10	French Drain	100-HR-1	1.22 (dia.)	1949-1965	Site was a vertically buried 1.22 m diameter vitrified clay pipe with steel lid. It was suspected to be a French drain. The french drain was likely a condensate drain for the steam heating system and would not have been subject to contamination from within the reactor building.	Interim Closed	WSRF 2005-053 CVP-2006-00003	Not Documented	2004	N/A	73,966 (includes all sites addressed by CVP-2006-00003)	6	The 100-H-10 Site is analogous to reactor French drains at 118-C-3:3 and 100-F-12. Evaluation of analogous reactor French drains indicates that possible residual soil contamination at 100-H-10 meets remediation action objectives and goals.							
100-H-11	French Drain	100-HR-1	0.76 (dia.)	1949-1965	Site was a drain that appeared to installed to provide drainage for an expansion box. The unit was a vertical 0.76 m diameter steel manhole set in concrete that provided access to a French drain at the bottom of the box. It appears the drain was installed to provide drainage for any leaks in an expansion box.	Interim Closed	WSRF 2006-012 CVP-2006-00003	Not Documented	2004	Mar. 24-25 & Apr. 6, 2004	73,966 (includes all sites addressed by CVP-2006-00003)	6	Evaluation of the fuel storage basin soils (118-H-6:3) and deep zone side slopes (118-H-6:6) also refers to soils underlying waste site 100-H-11. Verification samples for of the soils underlying the FSB floor also pertains to the soils beneath the 100-H-11 site. Refer to 118-H-6:3 and 118-H-6:6 for data.							
100-H-12	French Drain	100-HR-1	0.76 (dia.)	1949-1965	This site is a vertical 0.76 m diameter steel manhole set in concrete that provided access to a French drain at the bottom of a concrete expansion box. The French drain appears to have been installed to provide drainage for any leakage that might occur in the expansion box.	Interim Closed	WSRF 2006-013 CVP-2006-00003	Not Documented	2004	Mar. 24-25 & Apr. 6, 2004	73,966 (includes all sites addressed by CVP-2006-00003)	6	Evaluation of the fuel storage basin soils (118-H-6:3) and deep zone side slopes (118-H-6:6) also refers to soils underlying waste site 100-H-11. Refer to 118-H-6:3 and 118-H-6:6 for coca data. Verification sampling from the soils in the deep zone side slopes and underlying the FSB floor pertains to the soils beneath the 100-H-12 drain .							
100-H-13	French Drain	100-HR-1	1.22 (dia.)	1949-1965	Site was a French drain constructed of vitrified clay pipe and covered by two metal lids. The second metal lid was located 15.2 cm below the first. A 6.3 cm stainless steel pipe emerged from the 105-H Reactor Building wall, ran downward to the surface, and disappeared at a point in approximate alignment with the site. An asphalt surface repair mark ran through the asphalt from the point where the pipeline entered the ground to the french drain. This suggests the possibility of drainage from the Reactor Building.	Interim Closed	WSRF 2006-011 CVP-2006-00003	Not Documented	2004	N/A	73,966 (includes all sites addressed by CVP-2006-00003)	6	The 100-H-13 Site is analogous to reactor French drains at 118-C-3:3 and 100-F-12. Evaluation of analogous reactor French drains indicates that possible residual soil contamination at 100-H-13 meets remediation action objectives and goals.							
100-H-14	Unplanned Release	100-HR-1	0.3 x 0.6	Not Documented	Surface contamination area located next to the south wall of the 105-H Reactor.	Interim Closed	WSRF 2006-014 / CVP-2006-00003	Not Documented	2004	Mar. 24-25 & Apr. 6, 2004	73,966 (includes all sites addressed by CVP-2006-00003)	6	Evaluation of the fuel storage basin soils (118-H-6:3) and deep zone side slopes (118-H-6:6) also refers to soils underlying waste site 100-H-11. Refer to 118-H-6:3 and 118-H-6:6 for coca data . Verification sampling from the soils in the deep zone side slopes pertain to the soils beneath the 100-H-14 surface contamination.							

Table E1. Waste Site Description and History with Associated Interim Action Closeout Data

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														Shallow[a]	Deep[b]	Shallow[a]	Deep[b]
100-H-15	Septic Tank	100-HR-2	45.7 x 9.1	Not Documented	The site appears in a photograph as a line of disturbed soil near the southeast corner of the 151-H Electrical Substation. The authors of the technical baseline report concluded this site had the appearance of a septic tank. There was no evidence of a septic system during a walkdown. On March 29, 1996, the manhole was opened and determined to be the tie-in from the 151-H and 105-H Buildings to the 1607-H1 Septic System. There was no evidence of a line running to the west from the manhole. It has been concluded that 100-H-15 and 118-H-2 are the same site.	Not Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-16	Sump	100-HR-2	9.45 x 5.49 x 3.66	1948-?	The salt-dissolving pits and brine pump pit were part of a single, below grade concrete structure that provided brine for the 184-H Powerhouse. No evidence of the structure can be seen today. The site was probably demolished in place. No documentation has been located related to cleanup. It is not known if salt cake was left in the structure.	Rejected	WSRF 97-003	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-17	Unplanned Release	100-HR-1	159.7 x 58.5 x 1.8	1953	Site was a triangular area that received overflow from the 1608-H Liquid Waste Disposal Trench.	Interim Closed	WSRF 2000-119 CVP-2000-00031	Feb. 2, 2000	Feb. 10, 2000	Aug. 10-24, 2000	19,920	2.6	Refer to 116-H-2				
100-H-18	Unplanned Release	100-HR-1	Not Documented	1955	The waste consisted of airborne radioactive particulates released through the 105-H stack. The 105-H stack emitted approximately 0.6 curies of filterable gross beta contamination on May 3, 1955, when two ruptured slugs were removed from the reactor.	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
100-H-19	Unplanned Release	100-HR-1	Approx. 7 mi^2 S of 100-H	Nov. 1, 1955	The waste consisted of airborne radioactive particulates released through the 105-H Stack. Approximately 0.8 Ci of filterable gross beta contamination, mostly ba and rare earth plus yttrium, was emitted from the 105-H Stack.	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
100-H-2	Burial Ground	100-HR-2	12.2 (length)	1953	Inactive, low-level solid waste burial ground said to consist of two north-south backfilled trenches.	Interim Closed	WSRF 2000-119 CVP-2000-00031	Feb. 2, 2000	Feb. 10, 2000	Aug. 10-24, 2000	19,920	2.6	Refer to 116-H-2				
100-H-20	Unplanned Release	100-HR-1	Area extending from around the 100-H Water Towers, swallow flight path toward White Bluffs	May 15, 1956	Discovered swallows were making nests out of contaminated mud taken from the 107-H Liquid Waste Disposal Trench. The mud used by the swallows would have contained radioactive contamination from fuel element rupture.	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

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100-H-21	Radioactive Process Sewer	100-HR-1	893.7 (length) x 4.2 (depth) x 1.5 (dia.); 306.6 (length) x 0.5 (dia.); 1,244.498 (length) x 2.438 (depth)	1949-1965	This site includes two former 1.5 m- (5-ft-) diameter steel pipelines that carried 105-H Reactor cooling water effluent from the Reactor to the 116H7 Retention basin and from the basin to the 116-H-5 Outfall. The site also includes a 0.5 m (1.6-ft-) diameter steel pipeline that was used to divert reactor-cooling water from the retention basin to the 116-H-l Trench and a 0.5 m (1.6-ft-) diameter steel pipeline along the west side of the retention basin and pipelines from the reactor to the 1608-H Pump House and the 116-H-2 Trench.	Interim Closed	WSRF 2001-006 CVP-2000-00029	Oct. 19, 1999	Jul. 21, 2000	Jul. 17 to Dec. 12, 2000	32,725	5.6	Refer to 100-H-22				
100-H-22	Unplanned Release	100-HR-1	Not Documented	1949-1965	Soil contaminated by leakage from 100-H-21 Reactor effluent pipelines.	Interim Closed	WSRF 2001-006 CVP-2000-00029	Oct. 19, 1999	Jul. 21, 2000	Jul. 17 to Dec. 12, 2000	32,725	5.6	Cobalt-60	0.054 U	0.2810	0.0400	0.1250
													Cesium-137	0.8260	10.8000	0.1840	3.7000
													Europium-152	0.5580	2.4100	0.2100	1.2400
													Europium-154	0.19 U	0.4080	0.1500	0.2290
													Europium-155	0.15 U	0.2 U	0.1200	0.1550
													Nickel-63	3.20 U	25 J	3.0700	9.1600
													Plutonium-238	0.072 J	0.1370	0.0700	0.0927
													Plutonium-239/240	0.075 J	0.0999 U	0.0500	0.0879
													Strontium-90	0.142 U	0.512 J	0.1830	0.2800
													Uranium-238	0.704 J	0.712 J	0.5000	0.5350
													Arsenic	26.0000	11.0000	14.0000	6.0000
													Hexavalent Chromium	0.7000	2.2000	0.7000	1.4000
													Lead	95.0000	32.0000	42.0000	16.0000
100-H-24	Electrical Substation	100-HR-1	137.2 x 87.2 x 0.3	1948-1978	This site is the area of the demolished 151-H Electrical Substation including the former 151-H Building and adjacent switchyard. Supplied all electrical power to 100-H.	Interim Closed	WSRF 2001-027 CVP-2000-00030	Nov. 1999	Dec. 2000	Aug. & Dec. 2000	19,294	4.6	Aroclor-1016	0.17 U	/	/	/
													Aroclor-1221	0.34 U	/	/	/
													Aroclor-1232	0.17 U	/	/	/
													Aroclor-1242	0.17 U	/	/	/
													Aroclor-1248	0.17 U	/	/	/
													Aroclor-1254	0.17 U	/	/	/
													Aroclor-1260[g]	0.3500	/	0.3500	/
													Arsenic	5.7000	/	/	/
100-H-26	Unplanned Release	100-HR-1	Not Documented	Not Documented	The site consists of grounds within the 100-H Exclusion Area that are not part of other waste sites.	Not Accepted	TPA-MP-14 WIDS Discovery Site Evaluation checklist approved by the	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-27	Ditch	100-HR-2	91.4 x 0.9 x 0.46[i]; 102.3 (length)[b]	Not Documented	The site is a ditch that receives stormwater runoff from a nearby asphalt parking area. The ditch runs northward from a 15 cm (6in.) vitrified clay pipe that discharged at a headwall.	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
100-H-28:1	Process Sewer	100-HR-1	length of pipeline is 265 m	1949-1965	Pipeline was designed to sluice coal ash from the boiler operation to disposal at the 126-H-1 ash pit.	No Action	WSRF/RSVP-2006-020	Aug. 28, 2002	Sept. 24, 2008	confirmatory sampling done on Aug. 28, 2008	None	1.5	Arsenic	3.3(<BG)		/	
													Barium	540.0000			
													Beryllium	0.53(<BG)			
													Boron	66.4000			
													Chromium Total	15.0(<BG)			
													Cobalt	8.0(<BG)			
													Copper	22.7000			
													Lead	5.7(<BG)			
													Manganese	340(<BG)			
													Mercury	.03(<BG)			

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													Molybdenum	1.1000			
													Nickel	17.2(<BG)			
													Vanadium	52.7(<BG)			
													Zinc	45.2(<BG)			
													Acenaphthene	0.0220			
													benzo(a)pyrene	0.0042			
													benzo(b)fluoranthene	0.0580			
													benzo(ghi)perylene	0.0120			
													benzo(k)fluoranthene	0.0024			
													Chrysene	0.0043			
													Dibenz[a,h]anthracene	0.0022			
													Fluoranthene	0.0072			
													Fluorene	0.0069			
													Indeno(1, 2, 3-cd)pyrene	0.0340			
													Naphthalene	0.0230			
													Phenanthrene	0.0150			
													Pyrene	0.0083			
100-H-28:2	Process Sewer	100-HR-1	Not Documented	1949-1965	This subsite encompasses those vitrified clay, reinforced concrete, and cast iron process sewer lines formerly servicing the 105-H Reactor Building, 190-H Pumphouse, 183-H clearwells and pumphouse (126-B-2), and miscellaneous 1700-series buildings east of the 190-H Pumphouse. These process sewers formerly drained to the 1906-H lift station, which pumped wastes to the 1904-H Outfall.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-28:3	Process Sewer	100-HR-1	Not Documented	1949-1966	This subsite encompasses those vitrified clay, reinforced concrete, and cast iron process sewer lines formerly servicing the 184-H Power Plant, and 183-H Filter Plant. These process sewers formerly drained to the 100-H-28:2 process sewers east of the 183-H	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-28:4	Process Sewer	100-HR-1	Not Documented	1949-1967	This subsite encompasses those vitrified clay pipelines that formerly carried sanitary wastes to the 1607-H1 septic system. These sewers formerly serviced the 105-H Reactor Building, 190-H Pumphouse, and 151-H Electrical Substation.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-28:5	Process Sewer	100-HR-1	Not Documented	1949-1968	This subsite encompasses those vitrified clay pipelines that formerly carried sanitary wastes to the 1607-H2 septic system. These sewers formerly serviced the 182-H Reservoir pumphouse, 183-H Filter Plant, 184-H Power House, 190-H Pumphouse, and 1700-series buildings east of the 190-H Pumphouse. The administrative boundary of this subsite extends to the boundary of previous remedial activities at the 1607-H2 septic system.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-28:6	Process Sewer	100-HR-1	190 m of 20 cm in dia.	1949-1968	consists of approx. 190m of 20cm vitrified clay pipeline which is about 4.6m below ground surface. Pipeline was installed during construction of the	No Action	WSRF/RSVP-2006-026	Sept. 2, 2008	Sept. 24, 2008	confirmatory sampling done on Sept. 2, 3, & 24, 2008	N/A	3.7	Cesium-137	0.344(<BG)	/	/	/
													Antimony	1.1(<BG)	/	/	/
													Arsenic	7.4000	/	/	/

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					182-H reservoir.								Barium	124(<BG)	/	/	/
													Beryllium	0.25(<BG)	/	/	/
													Boron	6.9000	/	/	/
													Cadmium	1.3000	/	/	/
													Chromium Total	27.4000	/	/	/
													Cobalt	7.1(<BG)	/	/	/
													Copper	34.0000	/	/	/
													Lead	97.7000	/	/	/
													Manganese	305(<BG)	/	/	/
													Mercury	0.05(<BG)	/	/	/
													Molybdenum	0.9400	/	/	/
													Nickel	17(<BG)	/	/	/
													Vanadium	45.2(<BG)	/	/	/
													Zinc	312.0000	/	/	/
100-H-28:7	Process Sewer	100-HR-1	Varies	1949-1968	This subsite encompasses the filtered/treated water supply lines originating at the 183-H Filter Plant, including two 0.91 meters steel lines terminating at the 190-H building, a 0.76 meters line terminating at the 182-H Reservoir pumphouse, two 0.25 meters steel lines terminating at the 184-H Power House, and the former supply lines to the emergency cooling water high tanks at the 105-H Reactor	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-28:8	Process Sewer	100-HR-1	0.61 dia.	1949-1965	consisted of four 0.61 m dia. seamless welded steel pipelines . Were used to provide final treated cooling water from the 190-H Pumphouse to the 105-H Reactor.	No Action	WSRF/RSVP-2006-024	N/A	N/A	N/A	N/A	N/A	Piping was removed prior to demolition of 190-H pumphouse in 1977. Remaining portions of the site were excavated and removed during Interim Safe Storage activities for the 105-H Reactor Building. Remaining portions of the building were sealed as part of ISS and will be addressed a part of closure of the reactor facilities.				
100-H-3	Storage Tank	100-HR-1	5.4 x 2.4 (dia.)	1949-1965	Site may contain one or more USTs used to supply fuel to the 1716-H Garage. This building served as an automotive service station from 1949 to 1965. The automotive service area included gas pumps with USTs and, possibly, an oil pit.	Interim Closed	WSRF/RSVP-2010-103	Dec. 21, 2010	Dec.30. 2010	29-Mar-11	894 BCM	3.5	Arsenic	25.0000	/	12.9000	/
													Barium	99.0000	/	88.6253	/
													Beryllium	0.3600	/	0.3330	/
													Boron	7.1400	/	3.2440	/
													Cadmium	0.5250	/	0.2310	/
													Chromium (total)	20.9000	/	17.2780	/
													Cobalt	6.9200	/	6.4650	/
													Copper	16.3000	/	15.0548	/
													Lead	76.8000	/	67.7918	/
													Manganese	325.0000	/	305.5915	/
													Molybdenum	0.6390	/	0.4450	/
													Nickel	17.7000	/	14.8768	/
													Vanadium	52.3000	/	49.0777	/
													Zinc	54.7000	/	48.7874	/
													TPH - motor oil	180.0000	/	55.7000	/
													Mercury	0.4130	/	/	/
													TPH - diesel range	164.0000	/	/	/
													Aroclor-1254	0.0080	/	/	/
													Aroclor-1260	0.0144	/	/	/
													Anthracene	0.0170	/	/	/
													Benzo(a)anthracene	0.0696	/	0.0230	/
													Benzo(a)pyrene	0.0708	/	0.0110	/

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													Benzo(b)fluoranthene	0.0608	/	0.0880	/
													Benzo(ghi)perylene	0.0270	/	/	/
													Benzo(k)fluoranthene	0.0340	/	/	/
													beta-BHC	0.0025	/	/	/
													Chrysene	0.0851	/	0.0570	/
													Dieldrin	0.0049	/	/	/
													Fluoranthene	0.1900	/	/	/
													Fluorene	0.0120	/	/	/
													Indeno(1,2,3-cd)pyrene	0.0410	/	/	/
													Phenanthrene	0.1200	/	/	/
													Pyrene	0.0714	/	0.0620	/
100-H-30	Trench	100-HR-1	Not Documented	Not Documented	Site was a sanitary sewer trench and feed pipeline believed to support the demolished 110 H Building.	Interim Closed	WSRF 2000-119 CVP-2000-00031	Feb. 2, 2000	Feb. 10, 2000	Aug. 10-24, 2000	19,920	2.6	Refer to 116-H-2				
100-H-31	Unplanned Release	100-HR-1	5.89 m^2	Not Documented	Site was soil contaminated with PCB at the north side of the 105 H Reactor.	Interim Closed	WSRF 2006-015 CVP-2006-00003	Not Documented	2004	Mar. 24-25 & Apr. 6, 2004	73,966 (includes all sites addressed by CVP-2006-00003)	4.6	Removal of top soil and 4.6 m (15 ft) of underlying soil has been determined to have sufficiently removed all the PCB contamination. Residual soil contamination is protective of groundwater and the Columbia River due to the low mobility of Aroclor-1260 (Kd = 530 mL/g). Sampling of soils underlying the site was not performed. No RESRAD.				
100-H-32	French Drain	100-HR-2	1.2 (depth) x 0.6 (dia.)	Not Documented	The site was a French drain that received sump drainage from the 184-H Brine Pit (100-H-16). There is no visual evidence of a French drain at this location. It likely was removed with the associated brine pit	Rejected	WSRF 2002-041	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-33	Retention basin	100-HR-1	39.0 x 16.5 x 5.0	1949-1985	This site was created to address the radionuclide component of the 183-H Solar Evaporation basins (116-H-6, which is the TSD component).	No Action	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-34	Radioactive Process Sewer	100-HR-1	229.5 x 4.0 x 1.55 (dia.)	Not Documented	This site includes the river effluent pipelines (river lines) that extend from the outfall (116-H-5) into the main channel of the Columbia River. The river effluent pipelines discharged reactor coolant water to the river. Effluent was received from the 107-H Retention basin and the area process sewer system to the outfall structure.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-35	Product Piping	100-HR-1	10,796.61	Not Documented	The site encompasses the clean water pipelines for 100-H, including underground pipelines used to transport raw water from the river pumphouse to the water treatment facilities and to 100-H facilities and fire hydrants. The waste from the clean water system is considered non-hazardous.	No Action	RSVP/WSRF 2011-003	N/A	N/A	N/A	N/A	N/A	Arsenic	5	/	/	/
													Barium	99	/	/	/
													Beryllium	0.371	/	/	/
													Boron	2.63	/	/	/
													Cadmium	0.172	/	/	/
													Chromium (total)	20.7	/	/	/
													Cobalt	6.59	/	/	/
													Copper	15.1	/	/	/
													Lead	5.88	/	/	/
													Manganese	322	/	/	/
													Molybdenum	0.328	/	/	/
													Nickel	17.1	/	/	/
													Vanadium	43.6	/	/	/
													Zinc	47.4	/	/	/

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100-H-36	Outfall	100-HR-1	7.0 (width)	Not Documented	The site is an underground concrete spillway (also referred to as a flume) that led from the 116-H-5 Outfall Structure to the river shoreline. The spillway could have received reactor coolant effluent when the 100-H-34 River Pipelines were blocked, damaged, or undergoing maintenance. There is no corroborated physical or historical evidence that the spillway was ever used.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-37	contamination Migration	100-HR-2	35 individual sites covering 25 acres (51,690.43 m2?)	2002-2003	This site is contamination from mud dauber wasps. The nests are estimated to cover approximately 10.1 ha (25 ac) throughout 100H.	Interim Closed	WSRF 2010-007	Jul. 14, 2008	Dec. 2009	N/A	19,153 BCM	N/A	Pending final RSVP/CVP.				
100-H-38	Burial Ground	100-HR-1	Not Documented	Not Documented	Not documented.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-39	Trench	100-HR-1	29.87 x 9.1460 x 12; 60.05 x 20.12; 54.86 x 20.12; 29.87 x 9.14	1950-?	The site is four possible thimble pit or trench locations (areas). The sites were used to bury thimbles (process tube components) or materials related to the removal of thimbles.	Rejected	WSRF 2010-002	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-4	Maintenance Shop	100-HR-1	12.9 x 9.6 (Hot Shop); 12.89 x 12.5 (Hot Shop); 5.9 x 5 (contaminated Storage Area); 0.7 (dia.) (French Drain)	1948	The site is a hot shop, French drain, and contaminated storage. The French drain was located under additional storage (Butler type) areas that were added to the east side of the 1717-H Building.	Interim Closed	WSRF/RSVP-2011-001	Jan. 4, 2010	Jan. 18, 2010	Sept. 22, 2010	3,148 BCM	4	Nickel-63	7.7400	/	1.6052	/
													Uranium-233/234	1.6000	/	1.0997	/
													Uranium-238	1.2800	/	0.8645	/
													Arsenic	12.9000	/	7.1699	/
													Barium	99.4000	/	53.3060	/
													Beryllium	0.3570	/	0.2430	/
													Boron	5.6400	/	1.6720	/
													Cadmium	0.1780	/	0.1230	/
													Chromium (total)	14.6000	/	11.2728	/
													Cobalt	6.6700	/	5.5590	/
													Copper	19.2000	/	15.2735	/
													Lead	42.8000	/	16.7560	/
													Manganese	308.0000	/	262.5936	/
													Mercury	0.4080	/	/	/
													Molybdenum	0.7090	/	0.4560	/
													Nickel	12.4000	/	10.1655	/
													Selenium	0.3910	/	/	/
													Vanadium	54.4000	/	50.4865	/
													Zinc	46.0000	/	35.6870	/
													TPH - motor oil	54.7000	/	34.8000	/
													Acenaphthene	0.0109	/	/	/
													Benzo(a)anthracene	0.0095	/	0.0032	/
													Benzo(a)pyrene	0.0089	/	0.0036	/
													Benzo(b)fluoranthene	0.0101	/	0.0033	/
													Benzo(ghi)perylene	0.0064	/	0.0029	/
													Benzo(k)fluoranthene	0.0047	/	0.0021	/
													Chrysene	0.0083	/	0.0053	/
													Fluoranthene	0.0220	/	0.0115	/
													Fluorene	0.0030	/	/	/
													Indeno(1,2,3-cd)pyrene	0.0311	/	/	/
													Phenanthrene	0.0061	/	0.0028	/
													Pyrene	0.0110	/	0.0080	/

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													Aroclor-1254	0.0665	/	/	/
													Aroclor-1260	0.0352	/	/	/
													4,4'-DDE	0.0030	/	/	/
													4,4'-DDT	0.0016	/	/	/
													alpha-Chlordane	0.0030	/	/	/
													gamma-Chlordane	0.0014	/	/	/
													Focused Samples				
													Uranium-233/234	1.4600	/	/	/
													Uranium-238	1.3400	/	/	/
													Antimony	0.3970	/	/	/
													Arsenic	8.3600	/	/	/
													Barium	79.0000	/	/	/
													Beryllium	0.3070	/	/	/
													Boron	2.2600	/	/	/
													Cadmium	0.2400	/	/	/
													Chromium (total)	16.9000	/	/	/
													Cobalt	6.4600	/	/	/
													Copper	19.3000	/	/	/
													Lead	18.4000	/	/	/
													Manganese	364.0000	/	/	/
													Mercury	0.0141	/	/	/
													Molybdenum	0.4780	/	/	/
													Nickel	14.9000	/	/	/
													Selenium	0.3340	/	/	/
													Vanadium	46.4000	/	/	/
													Zinc	62.5000	/	/	/
													TPH - motor oil	18.8000	/	/	/
													Acenaphthene	0.0511	/	/	/
													Aroclor-1254	0.0138	/	/	/
													Aroclor-1260	0.0184	/	/	/
													Benzo(a)anthracene	0.0746	/	/	/
													Benzo(a)pyrene	0.0529	/	/	/
													Benzo(b)fluoranthene	0.0441	/	/	/
													Benzo(ghi)perylene	0.0459	/	/	/
													Benzo(k)fluoranthene	0.0272	/	/	/
													Chrysene	0.0313	/	/	/
													Dibenz(a,h)anthracene	0.0066	/	/	/
													4,4'-DDT	0.0019	/	/	/
													Fluoranthene	0.0290	/	/	/
													Fluorene	0.0042	/	/	/
													Indeno(1,2,3-cd)pyrene	0.0145	/	/	/
													Phenanthrene	0.0021	/	/	/
													Pyrene	0.0157	/	/	/
100-H-40	Trench	100-HR-1	Triangular in shape, with each side measuring ~200 m in length.	1949-195	The site is a possible pit used for the disposal of maintenance shop waste such as paint cans and auto repair waste.	No Action	WSRF/RSVP-2009-065	N/A	N/A	confirmatory sampling on Oct. 27-29, 2009	N/A	N/A	Antimony	2.16 (<BG)	/	/	/
													Arsenic	7.8300	/	/	/
													Barium	68.6 (<BG)	/	/	/
													Beryllium	0.225 (<BG)	/	/	/
													Boron	2.8400	/	/	/
													Cadmium	0.469 (<BG)	/	/	/
													Chromium Total	11.9 (<BG)	/	/	/
													Cobalt	6.59 (<BG)	/	/	/
													Copper	25.7000	/	/	/
													Lead	24.4000	/	/	/
													Manganese	325 (<BG)	/	/	/
													Mercury	0.08 (<BG)	/	/	/
													Molybdenum	0.9610	/	/	/

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													Nickel	13.4 (<BG)	/	/	/
													Vanadium	45.3 (<BG)	/	/	/
													Zinc	83.4000	/	/	/
													TPH-motor oil	170.0000	/	/	/
													benzo(a)anthracene	0.0191	/	/	/
													benzo(a)pyrene	0.0285	/	/	/
													benzo(b)fluoranthene	0.1330	/	/	/
													benzo(ghi)perylene	0.1880	/	/	/
													benzo(k)fluoranthene	0.0018	/	/	/
													Chrysene	0.0444	/	/	/
													Dibenz[a,h]anthracene	0.0041	/	/	/
													Fluoranthene	0.0131	/	/	/
													Fluorene	0.8540	/	/	/
													Indeno(1, 2, 3-cd)pyrene	0.0311	/	/	/
													Phenanthrene	0.0052	/	/	/
													Pyrene	0.0244	/	/	/
100-H-41	Unplanned Release	100-HR-1	1 x 1	Not Documented	Concrete structure within radiologically contaminated area.	Interim Closed	WSRF 2010-003	N/A	N/A	N/A	N/A	N/A	Arsenic	8.02	/	/	/
													Barium	86.2	/	/	/
													Beryllium	0.298	/	/	/
													Boron	1.11	/	/	/
													Cadmium	0.0882	/	/	/
													Chromium (total)	18.5	/	/	/
													Cobalt	6.07	/	/	/
													Copper	14.2	/	/	/
													Cr-VI	0.2	/	/	/
													Lead	7.69	/	/	/
													Manganese	281	/	/	/
													Molybdenum	0.237	/	/	/
													Nickel	15.3	/	/	/
													Vanadium	40.9	/	/	/
													Zinc	46.5	/	/	/
													Fluoride	0.5	/	/	/
													Phosphate	2.5	/	/	/
													Sulfate	2.8	/	/	/
													Acenaphthene	0.0746	/	/	/
													Acenaphthylene	0.104	/	/	/
													Anthracene	0.341	/	/	/
													Benzo(a)anthracene	1.11	/	/	/
													Benzo(a)pyrene	0.971	/	/	/
													Benzo(b)fluoranthene	.	/	/	/
													Benzo(ghi)perylene	0.431	/	/	/
													Benzo(k)fluoranthene	0.396	/	/	/
													Chrysene	0.854	/	/	/
													Dibenz(a,h)anthracene	0.123	/	/	/
													Fluoranthene	2.31	/	/	/

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													Fluorene	0.2	/	/	/
													Indeno(1,2,3-cd)pyrene	0.593	/	/	/
													Naphthalene	0.622	/	/	/
													Phenanthrene	1.31	/	/	/
													Pyrene	1.53	/	/	/
													Carbazole	0.374	/	/	/
													Dibenzofuran	1.63	/	/	/
													2-Methylnapthalene	0.501	/	/	/
100-H-42	Pump Station	100-HR-1	12.50 x 20.70 x 13.70	1949-?	The site consists of the underground reinforced-concrete flume/reservoir filled with building rubble and clean soil. The concrete structure may be in contact with surrounding soil contaminated by past leaks from the structure.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-43	Foundation	100-HR-1	28.0 x 23.0 x 6.0 (original building); 8.40 x 1.44 x 1.37 (below grade service pit); 10.0 (pipeline); 4.0 (pipeline); 42.75 (cylinder)	1943-1974	This site contains the below grade remnants of the 1716-H Maintenance Garage following its demolition and site leveling in 1974. The facility was used to service the area vehicles.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-44	Process Unit/Plant	100-HR-1	2.56 x 1.95 x 2.0	Not Documented	This site consists of potentially contaminated soils and possibly a concrete structure, acid brick, and piping that may contain contamination associated with the 183-H Neutralization Pit. The Neutralization Pit received sulfuric acid from two storage tanks and one acid head tank and lime slurry from the 183-H Head House.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-45	Unplanned Release	100-HR-1	0.73 x 0.67	1966-?	The 1717-H Building housed a machine shop, sheet metal shop, fabrication shop, and carpenter shop that provided services for all of the 100 Area operations. It is unknown if the propane tank shown in the historical construction drawings was ever installed. An orphan site investigation identified the location of the suspected UST on drawing SK-1-7325. The remediation footprint for the former 100-H-21 effluent pipelines extended near the western edge of the 100-H-45 UST, but there is no documentation that indicates whether a tank was found during the pipeline remediation.	No Action	WSRF/RSVP-2009-064	N/A	N/A	confirmatory sampling on Nov. 10, 2009	N/A	N/A	Antimony	0.288 (<BG)	/	/	/
													Arsenic	1.43 (<BG)	/	/	/
													Barium	32.9 (<BG)	/	/	/
													Beryllium	0.129 (<BG)	/	/	/
													Boron	0.5840	/	/	/
													Cadmium	0.0544 (<BG)	/	/	/
													Chromium Total	9.91 (<BG)	/	/	/
													Cobalt	4.18 (<BG)	/	/	/
													Copper	10.5 (<BG)	/	/	/
													Lead	1.87 (<BG)	/	/	/
													Manganese	227 (<BG)	/	/	/
													Molybdenum	0.2620	/	/	/
													Nickel	7.78 (<BG)	/	/	/
													Vanadium	42.6 (<BG)	/	/	/
													Zinc	28.2 (<BG)	/	/	/
													TPH-diesel	1.0800	/	/	/

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100-H-46	Process Unit/Plant	100-HR-1	Not Documented	Not Documented	This site consists of potentially contaminated soils, concrete structures, and drain pipes that were beneath the sodium dichromate process equipment, piping, unloading dock, and railroad spur. This site is within the footprint of the 190-H Pumphouse, which was demolished and removed to 1 m (3 ft) below grade in 1977 (WHC-EP-0478).	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-47	Unplanned Release	100-HR-1	1.0 x 1.34	Not Documented	The site is a potential UST that by 2008 may have leaked. This feature was located as an anomaly during a geophysical investigation for another discovery site. The feature has the distinct character of a buried manmade feature, potentially a tank.	Rejected	WSRF 2009-058 plus attachments	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-48	Product Piping	100-HR-1	1.5 (width)	1965-?	The site consists of potentially remaining fuel oil piping that was associated with two former fuel oil USTs that supported the 184-HA boiler house Building. Potentially, fuel oil piping and contaminated underlying soil could be remaining.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-49:1	French Drain	100-HR-1	French drains range in size from 5.1 cm to 1.22 m	1949-?	This site consists of 4 French drains, the underlying soil of the potentially contaminated French drains, and their associated below grade piping components.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-49:2	French Drain	100-HR-1	French drains range in size from 5.1 cm to 1.22 m	1949-?	This site consists of 9 French drains, the underlying soil of the potentially contaminated French drains, and their associated below grade piping components.	No Action	RSVP/WSRF 2010-096	N/A	N/A	N/A	N/A	N/A	Carbon-14	1.58	/	/	/
													Cesium-137	0.122	/	/	/
													Antimony	0.332	/	/	/
													Arsenic	8.91	/	/	/
													Barium	175	/	/	/
													Beryllium	0.337	/	/	/
													Boron	5.66	/	/	/
													Cadmium	0.255	/	/	/
													Chromium (total)	18.8	/	/	/
													Cobalt	6.82	/	/	/
													Copper	27.2	/	/	/
													Lead	46.2	/	/	/
													Manganese	291	/	/	/
													Mercury	0.0132	/	/	/
													Molybdenum	0.489	/	/	/
													Nickel	16.6	/	/	/
													Silver	0.547	/	/	/
													Vanadium	48.9	/	/	/
													Zinc	96.7	/	/	/
													Chloride	10.8	/	/	/
													Nitrate as Nitrogen	4.4	/	/	/
													Sulfate	321	/	/	/
													Aroclor-1254	0.0516	/	/	/
													Aroclor-1260	0.0475	/	/	/
													Total PCBs	0.0991	/	/	/

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													beta-BHC	0.00306	/	/	/
													4,4'-DDE	0.00521	/	/	/
													4,4'-DDT	0.00245	/	/	/
													Endosulfan sulfate	0.00154	/	/	/
													Methoxychlor	0.00155	/	/	/
													TPH - diesel range	63.8	/	/	/
													TPH - motor oil	121	/	/	/
													Acenaphthene	0.213	/	/	/
													Acenaphthylene	0.316	/	/	/
													Anthracene	0.0133	/	/	/
													Benzo(a)anthracene	0.0199	/	/	/
													Benzo(a)pyrene	0.0337	/	/	/
													Benzo(b)fluoranthene	0.0878	/	/	/
													Benzo(ghi)perylene	0.0229	/	/	/
													Benzo(k)fluoranthene	0.0167	/	/	/
													Chrysene	0.0316	/	/	/
													Dibenz(a,h)anthracene	0.0239	/	/	/
													Fluoranthene	0.248	/	/	/
													Fluorene	0.089	/	/	/
													Indeno(1,2,3-cd)pyrene	0.0514	/	/	/
													Naphthalene	0.115	/	/	/
													Phenanthrene	0.0993	/	/	/
													Pyrene	0.0406	/	/	/
100-H-49:3	French Drain	100-HR-1	French drains range in size from 5.1 cm to 1.22 m		This site consists of 4 French drains, the underlying soil of the potentially contaminated French drains, and their associated below grade piping components.	Rejected	WSRF-2011-065	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-5	Burial Ground	100-HR-1	99.97 x 15.8 x 4.6	1953	Site contains unknown amount of sludge removed from the 116-H-7 Retention basin in 1953.	Interim Closed	WSRF 2000-117 CVP-2000-00028	27-Sep-99	8-Jun-00	May 23 to June 8, 2000	23,525	5.1	Cobalt-60	0.044 U	0.041 U	0.0280	0.0401
													Cesium-137	0.072 J	0.035 U	0.0427	0.0345
													Europium-152	0.095 U	0.077 U	0.0655	0.0761
													Europium-154	0.16 U	0.13 U	0.1010	0.1260
													Plutonium-238	0.024 U	0.034 U	0.0509	0.0459
													Plutonium-239/240	0.028 U	0.014 U	0.0371	0.0271
													Lead	17.0000	4.2000	8.3000	4.3000
													Strontium-90	/	0.045 U	0.1920	0.4010
													Focus Samples				
100-H-50	French Drain	100-HR-1	French drains range in size from 0.46 m to 1.0 m	1949-?	This site consists of 15 discrete locations, underlying soil, and associated below grade piping components for clean "proposed not accepted" French drains.	No Action	WSRF/RSVP-2009-009	N/A	N/A	Confirmation Sampling Oct. 11, 2010	N/A	N/A	Arsenic	4.8600	/	/	/
													Barium	62.0000	/	/	/
													Beryllium	0.2720	/	/	/
													Boron	2.4200	/	/	/
													Cadmium	0.1400	/	/	/
													Chromium (total)	15.1000	/	/	/
													Cobalt	6.1300	/	/	/
													Copper	13.7000	/	/	/
													Lead	12.6000	/	/	/
													Manganese	284.0000	/	/	/

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													Mercury	0.0343	/	/	/
													Molybdenum	0.3610	/	/	/
													Nickel	13.6000	/	/	/
													Selenium	0.2570	/	/	/
													Vanadium	53.2000	/	/	/
													Zinc	45.1000	/	/	/
100-H-51:1	Process Sewer	100-HR-1	15.2 cm dia.	Not Documented	The subsite consists of a 15.2 cm diameter vitrified clay pipe (VCP) sanitary sewer segment. The line connects the 1703-H building with the 100-H-28, 100-H Water Treatment Facilities Underground Pipelines. The subsite also includes a short section of a 10.16 cm soil pipe where the 15.2 cm VCP connects to the 1703-H building.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-51:2	Process Sewer	100-HR-1	5.08 cm dia.	Not Documented	The subsite consists of a 10 cm diameter cement asbestos feed line that ran from the 117-H Air Filter Building to waste site 116-H-9,117-H Crib, 117-H Seal Pit Crib.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-51:3	Process Sewer	100-HR-1	5.1 cm dia. and 7.6 dia.	Not Documented	The subsite consists of two parallel pipelines, a 5.1 cm steel brine discharge line and a 7.6 cm steel filtered water line that ran from the 184-H Power House Building to the 184-H Salt Dissolving Pit and Brine Pump House.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-51:4	Process Sewer	100-HR-1	210 linear	1949-1954	The subsite consists of a 15.2 cm diameter vitrified clay pipeline (VCP) storm drain that ran north from the 1701-H, 1702-H and 1709-H Buildings to 100-H-27, 100-H Area Patrol Headquarters Storm Runoff Ditch. The pipeline includes two 10.2 cm lateral sections of VCP feed pipe from 1702-H and 1709-H buildings to the 15.2 cm pipeline.	No Action	WSRF/RSVP-2009-026	N/A	N/A	Confirmation Sampling Oct. 7, 2010	N/A	N/A	Arsenic	5.9400	/	/	/
													Barium	112.0000	/	/	/
													Beryllium	0.3450	/	/	/
													Boron	1.6500	/	/	/
													Cadmium	0.8100	/	/	/
													Chromium (total)	13.5000	/	/	/
													Cobalt	7.4500	/	/	/
													Copper	14.7000	/	/	/
													Lead	6.4700	/	/	/
													Manganese	504.0000	/	/	/
													Mercury	0.0450	/	/	/
													Molybdenum	0.4010	/	/	/
													Nickel	12.6000	/	/	/
													Selenium	0.2760	/	/	/
													Vanadium	46.3000	/	/	/
													Zinc	79.1000	/	/	/
													Acenaphthene	2.7400	/	/	/
													Benzo(a)anthracene	1.8800	/	/	/
													Benzo(a)pyrene	4.9000	/	/	/
													Benzo(b)fluoranthene	5.7000	/	/	/
													Benzo(ghi)perylene	4.0600	/	/	/
													Benzo(k)fluoranthene	2.1900	/	/	/
													Chrysene	1.0400	/	/	/

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													Fluoranthene	1.2800	/	/	/
													Pipeline Focus Sample				
													Antimony	0.9480	/	/	/
													Arsenic	4.0900	/	/	/
													Barium	287.0000	/	/	/
													Beryllium	0.2490	/	/	/
													Boron	2.7200	/	/	/
													Cadmium	18.2000	/	/	/
													Chromium (total)	19.3000	/	/	/
													Cobalt	4.8900	/	/	/
													Copper	49.4000	/	/	/
													Lead	32.8000	/	/	/
													Manganese	207.0000	/	/	/
													Mercury	2.5200	/	/	/
													Molybdenum	1.1700	/	/	/
													Nickel	10.8000	/	/	/
													Silver	1.7900	/	/	/
													Vanadium	43.6000	/	/	/
													Zinc	231.0000	/	/	/
													Acenaphthene	0.1020	/	/	/
													Acenaphthylene	0.0125	/	/	/
													Anthracene	0.0081	/	/	/
													Benzo(a)anthracene	0.0545	/	/	/
													Benzo(a)pyrene	0.0108	/	/	/
													Benzo(b)fluoranthene	0.0274	/	/	/
													Benzo(ghi)perylene	0.2280	/	/	/
													Benzo(k)fluoranthene	0.0932	/	/	/
													Chrysene	0.0298	/	/	/
													Dibenz(a,h)anthracene	0.0281	/	/	/
													Fluoranthene	0.1780	/	/	/
													Fluorene	0.0043	/	/	/
													Indeno(1,2,3-cd)pyrene	0.2190	/	/	/
													Phenanthrene	0.0146	/	/	/
100-H-51:5	Process Sewer	100-HR-1	25.4 cm dia.	Not Documented	The pipeline is located between the Columbia River shoreline and the 1713-H building. It consists of a steel pipe that ran from the Columbia River to the sanitary water system just south of the 1713-H building.	No Action	RSVP-2009-010 WSRF 2011-090	N/A	N/A	N/A	N/A	N/A	Arsenic	3.470	/	/	/
													Barium	199.000	/	/	/
													Beryllium	0.383	/	/	/
													Boron	26.300	/	/	/
													Cadmium	0.133	/	/	/
													Chromium (total)	11.400	/	/	/
													Cobalt	5.800	/	/	/
													Copper	13.000	/	/	/
													Lead	6.250	/	/	/
													Manganese	290.000	/	/	/
													Molybdenum	0.440	/	/	/
													Nickel	10.700	/	/	/
													Selenium	0.221	/	/	/
													Vanadium	38.600	/	/	/
													Zinc	36.300	/	/	/
													TPH - diesel range	19.900	/	/	/
													TPH - motor oil	47.700	/	/	/
													Acenaphthene	0.037	/	/	/
													Acenaphthylene	0.246	/	/	/
													Anthracene	0.916	/	/	/

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													Benzo(a)anthracene	2.970	/	/	/
													Benzo(a)pyrene	0.006	/	/	/
													Benzo(b)fluoranthene	0.007	/	/	/
													Benzo(ghi)perylene	0.008	/	/	/
													Benzo(k)fluoranthene	0.004	/	/	/
													Chrysene	0.016	/	/	/
													Dibenz(a,h)anthracene	0.004	/	/	/
													Fluoranthene	0.009	/	/	/
													Fluorene	0.010	/	/	/
													Naphthalene	0.016	/	/	/
													Phenanthrene	0.025	/	/	/
													Pyrene	0.006	/	/	/
100-H-51:6	Process Sewer	100-HR-1	25 cm dia.	Not Documented	This carbon steel pipe was suspected to be connected to the southern side of a temporary wooden water tank. The pipeline is suspected to be a part of an extensive temporary water system used during construction of the 100-H Area.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-52	Septic Tank	100-HR-1	4.90 x 4.90	1965-1974	The site consists of a drain field and associated piping that supported the 184-HA boiler Annex. The waste is remaining pipelines and any potentially contaminated soil.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-53	Process Sewer	100-HR-1	1.8 (length); 0.25 (diameter)	Not Documented	This site is a 25-cm- (10-in.-) diameter, 1.8 m- (6-ft-) long (exposed portion) carbon steel pipe that runs northeast toward the river shore. The process associated with this pipe is unknown. The pipeline may have been related to pre-Hanford Site activities because this type of debris is associated with Site 600-258. Site 600-258 is located on top of the bank and the pipe is located toward the south end of 600-258.	No Action	Not Documented	N/A	N/A	N/A	N/A	N/A	Cesium-137	0.152	/	/	/
													Arsenic	5.58	/	/	/
													Barium	52.3	/	/	/
													Beryllium	0.231	/	/	/
													Boron	1.31	/	/	/
													Cadmium	0.397	/	/	/
													Chromium (total)	15.9	/	/	/
													Hexavalent chromium	1.52	/	/	/
													Cobalt	10.5	/	/	/
													Copper	15.8	/	/	/
													Lead	35.9	/	/	/
													Manganese	300	/	/	/
													Molybdenum	3.84	/	/	/
													Nickel	13.2	/	/	/
													Vanadium	35.1	/	/	/
													Zinc	79.9	/	/	/
													Acenaphthene	0.00737	/	/	/
													Acenaphthylene	0.0368	/	/	/
													Benzo(a)anthracene	0.0612	/	/	/
													Benzo(a)pyrene	0.00851	/	/	/
													Benzo(b)fluoranthene	0.00775	/	/	/

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													Benzo(ghi)perylene	0.00629	/	/	/
													Benzo(k)fluoranthene	0.00334	/	/	/
													Chrysene	0.022	/	/	/
													Dibenz(a,h)anthracene	0.00114	/	/	/
													Fluoranthene	0.0819	/	/	/
													Fluorene	0.00179	/	/	/
													Indeno(1,2,3-cd)pyrene	0.0237	/	/	/
													Naphthalene	0.00663	/	/	/
													Phenanthrene	0.00265	/	/	/
													Pyrene	0.0416	/	/	/
100-H-54	Unplanned Release	100-HR-1	Not Documented	Not Documented	The site is an area of systematically elevated radiological activity, generally less than twice background measurements, as shown in the GPERS plot (Image No. 1, Image No. 2). No survey data have been located for the area between the survey area shown in the images (Image No. 1, Image No. 2) and the 116-H-7 (107-H Retention basin) remediation footprint.	Accepted	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-H-55	Unplanned Release	100-HR-2	Not Documented	Not Documented	The waste consists of the pipe and underlying soil. Since the pipe cannot be related to any particular human activity, the contaminants of potential concern are unknown.	Rejected	WSRF 2009-056	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-56	Product Piping	100-HR-1	Not Documented	Not Documented	The site consists of all 100-H Area miscellaneous pipelines not associated with an existing waste site.	Accepted	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-57	Foundation	100-HR-1	Not Documented	Not Documented	The site consists of the underground piping, valves, sumps and other structures at the base of the two elevated water towers adjacent to the 105-H Reactor.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-58	contamination Migration	100-HR-2	Not Documented	Not Documented	The site consists of contaminated mud dauber (wasps) nests in the 100-H Area.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-59	Unplanned Release	100-HR-1	3,250 m^2	Note Documented	The site is a 213 meter long trench and contains contaminated railroad bed, including 39 rails, 700 ties and scattered debris. The trench is about 8.5 m deep and extend 0.3 m above the surface.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100-H-6	Unplanned Release	100-HR-1	43.80 m^2	Not Documented	The site is a contaminated concrete ramp connected to the 105-H Reactor. Site has been rejected because it is connected to the 105-H Reactor and included with the 118-H-6 Waste 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
100-H-7	French Drain	100-HR-1	0.762 (dia.)	Not Documented	This site is a vertical vitrified clay pipe with metal lid (at surface grade) suspected to be a French drain.	No Action	WSRF/RSVP-2008-056	N/A	N/A	confirmatory samples taken in Nov. 2008	N/A	N/A	Hexavalent Chromium and PCB Aroclor-1260 exceeds the cleanup/screening level based on WAC 173-340 2007. State eco-risk screening levels exceeded for antimony(<BG), bo, cadmium(<BG), cu, lead, manganese(<BG), mercury(<BG), vanadium(<BG), and zinc.				
100-H-8	French Drain	100-HR-1	0.91 (dia.)	Not Documented	This site is a vertical 91 cm- (36in.-) diameter concrete pipe (filled with gravel) with steel lid (at surface grade) suspected to be a French drain.	No Action	WSRF/RSVP-2006-031	N/A	N/A	confirmatory samples taken in Nov. 2008	N/A	N/A	Antimony	0.5200			
													Arsenic	7.3000			
													Barium	68.1000			
													Beryllium	0.4400			
													Boron	1.2000			
													Cadmium	0.3400			
													Chromium Total	13.5000			

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													Cobalt	8.3000			
													Copper	23.4000			
													Lead	46.8000			
													Manganese	340.0000			
													Mercury	0.3100			
													Molybdenum	0.9300			
													Nickel	15.2000			
													Vanadium	63.9000			
													Zinc	53.5000			
100-H-9	French Drain	100-HR-1	0.61 (dia.)	1949-1965	Site was a vertical 0.61 m diameter concrete pipe with a rusted metal lid suspected to be a French drain.	Interim Closed	WSRF 2006-010 CVP-2006-00003	Not Documented	2004	N/A	73,966 (includes all sites addressed by CVP-2006-00003)	6	This site did not require further sampling and analysis based on data from analogous french drains surrounding the reactor. Evaluation of analogous reactor French drains indicates possible residual soil contamination at 100-H-9 meets remediation action objectives and goals.				
116-H-1	Trench	100-HR-1	245.9 x 20.1 x 4.6	1952-1965	Trench received mixed waste effluent from the 116-H-7 Retention basin during reactor shutdown caused by fuel element ruptures and water/sludge during the basin deactivation. Received 9 x 107 L of effluent; 90 kg (41 lb) sodium dichromate. Radiological inventory is 33 Ci.	Interim Closed	WSRF 2001-013 CVP-2000-00026	29-Jun-99	25-Jul-00	Jun. 15 & Jul. 25, 2000	82,706	7	Cobalt-60	0.058 U	2.1200	0.0480	1.2900
													Cesium-137	0.6890	66.0000	0.3930	37.7000
													Europium-152	0.8360	88.8000	0.6650	52.2000
													Europium-154	0.18 U	66.0000	0.1670	3.8800
													Europium-155	0.13 U	0.55 U	0.1180	0.3310
													Plutonium-239/240	0.068 J	1.6400	0.0730	1.0900
													Strontium-90	1.3500	4.1600	0.6980	2.5300
													Lead[i]	18.0000	23.0000	11.7000	16.0, 0.98
													Hexavalent Chromium	0.5400	0.42 U	0.4200	0.4200
116-H-2	Trench	100-HR-1	9.1 x 3.0 x 1.8	1953-1965	Open trench fed by a vitrified clay pipe that originated from the 1608-H Pumphouse. Received 600,000,000 L of effluent; 600 kg (273 lb) sodium dichromate. Radiological inventory is 1.4 Ci.	Interim Closed	WSRF 2000-119 CVP-2000-00031	Feb. 2, 2000	Feb. 10, 2000	Aug. 10-24, 2000	19,920	2.6	Cobalt-60	0.058 U	/	0.0500	/
													Cesium-137	0.5260	/	0.2200	/
													Europium-152	0.15 U	/	0.1100	/
													Europium-154	0.18 U	/	0.1500	/
													Plutonium-239/240	0.069 U	/	0.1000	/
													Strontium-90	/	/	0.5000	/
													Strontium (total)[i]	1.0700	/	/	/
													Uranium-238	1.0500	/	0.6200	/
													Hexavalent Chromium	0.4700	/	0.4700	/
116-H-3	French Drain	100-HR-1	4.6 (depth) x 0.9 (dia.)	1950-1965	Received rinse water and nitric acid from the decontamination of fuel spacers, process tube caps, and other reactor hardware. consisted of two 0.9 m- (3-ft-) diameter gravel-filled	Interim Closed	WSRF 2000-135 CVP-2000-00032	Feb. 17, 2000	Jun. 26, 2000	Aug.1, 2000	2,707	4.6	Cobalt-60	0.0550	0.8360	0.0474	0.9020
													Cesium-137	0.053 J	10.2000	0.0505	9.0100
													Europium-152	0.6580	23.1000	0.4640	20.6000
													Europium-154	0.13 U	2.1000	0.1130	1.8700
													Hexavalent Chromium	0.43 U	2.0000	0.4300	2.0000
116-H-4	Crib	100-HR-1	3.0 x 3.0 x 3.0	1950-1952	Mixed liquid waste site that received about 1,000 L (254.2 gal) of contaminated cooling water from reactor process tubes containing ruptured fuel elements. A 1953 document reported ~270 Ci and 1,000 kg (454 lb) of sodium dichromate were released into the crib. There are some controversies about these values. After its use was discontinued in 1952, this pluto crib was covered with about 3.0 m (10 ft) of soil and marked with permanent concrete monuments. The pluto crib was uncovered and exhumed in 1960, during construction of the 105-H confinement System, so that the 117-H Filter Building could be constructed at	Accepted	WSRF/RSVP-2006-044	1960	1984	none taken	No, not directly	7.3; crib and 4.3m of underlying soil was exhumed. In 1984, the filter building was demolished and reburied in situ .	"No Action" is based on the evaluation that the crib and resulting soil contamination were removed during the deep excavations required to construct the 117-H Filter Building. Verification sampling of similar 100-Area pluto cribs demonstrates that a remediation depth of at least 4.6m is sufficient to remove the crib and underlying soil contamination.				
116-H-5	Outfall	100-HR-1	8.2 x 4.3 x 6.1	1949-1965	The outfall was a reinforced-concrete weir box that directed the 105-H Reactor coolant water either through the river discharge pipelines (100-H-34) or through the spillway (flume) (100-H-36). Received effluent from the 107-F Retention basins.	Interim Closed	WSRF 2011-012	Nov-08	Apr-09	Apr-11	2510 BCM	13	Carbon-14	/	/	0.800321431	0.89794871
													Cesium-137	/	/	/	0.16114992

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													Cobalt-60	/	/	/	0.04506713
													Europium-152	/	/	/	1.36873053
													Nickel-63	/	/	3.715948115	3.11132402
													Strontium-90	/	/	0.357496699	/
													Tritium	/	/	2.08308475	2.48719273
													Uranium-233/234	/	/	0.632958284	0.63511613
													Uranium-238	/	/	0.645743611	0.62182004
													Arsenic	/	/	6.53	6.3
													Barium	/	/	62.4	69.8
													Beryllium	/	/	0.198	0.089
													Boron	/	1.2	1.59	/
													Cadmium	/	/	0.0853	0.089
													Chromium (total)	/	/	12.9	11.6
													Cobalt	/	/	6.3	6.2
													Copper	/	/	14.4	15.3
													Hexavalent chromium	0.06	/	/	/
													Lead	/	/	18.8	18.7
													Manganese	/	0.02	269	255
													Mercury	0.019	0.87	/	/
													Molybdenum	/	/	0.273	/
													Nickel	/	/	11.5	11.7
													Vanadium	/	/	48.2	47
													Zinc	/	/	47.2	43.6
													Chloride	2.1	17.6	/	/
													Fluoride	/	/	0.98	1.3
													Nitrate as Nitrogen	/	/	2.44	34
													Nitrate and Nitrite as Nitrogen	/	/	1.9	31.3
													Nitrite as Nitrogen	/	0.3958409	/	/
													Sulfate	/	/	9.2	55.2
													Acenaphthene	0.00279	/	/	/
													Anthracene	0.0076	0.0051	/	/
													Benzo(a)anthracene	/	0.054	0.0208	/
													Benzo(a)pyrene	/	0.041	0.0188	/
													Benzo(b)fluoranthene	/	0.051	0.014	/
													Benzo(ghi)perylene	/	0.032	0.0117	/
													Benzo(k)fluoranthene	/	0.03	0.00675	/
													Bis(2-ethylheyl)phthalate	/	/	/	0.067
													Chrysene	/	0.045	0.0236	/
													Dibenz(a,h)anthracene	0.00275	/	/	/
													Fluorene	0.00157	/	/	/
													Fluoranthene	/	0.069	0.0666	/
													Indeno(1,2,3-cd)pyrene	/	0.035	0.0136	/
													Naphthalene	0.015	/	/	/
													Phenanthrene	/	0.018	0.0217	/
													Pyrene	/	0.077	0.0254	/
													Aroclor-1260	0.00385	0.00731	/	/
													4,4'-DDE	0.00045	0.00212	/	/
													4,4'-DDD	/	/	/	/
													4,4'-DDT	/	0.0031	/	/
													TPH - diesel range	2.6	/	/	/
													TPH - diesel range EXT	8.1	/	/	/
													TPH - motor oil	/	/	13.352	33.76
116-H-6	Retention basin	100-HR-1	39.0 x 16.5 x 5.0	1949-1985	Site was a concrete water and treatment basin divided and subdivided for treatment of liquid waste by solar evaporation. Site has been closed out via modified closure certificate. Received 1,514,160 L (399,998 gal) of effluent per year. The retention basin was a RCRA-permitted TSD unit.	Closed Out	Closure Letter 046651, "Acceptance of Closure Certification for the 183-H Solar Evaporation basins (T-1-4). 96-EAP-246"	1995	May. 5, 1997		Not Documented	6.1	Clean closure of the site was not achieved due to levels of fluoride and nitrate remaining in the soil. Therefore, the unit was closed under the partial closure option with specified remedial measures provided under postclosure care. Remedial measures included placing a vapor barrier at the bottom of the excavation and replacing the excavated soils with clean, compacted backfill. Postclosure groundwater monitoring will continue at the unit under a WAC 175-303-645, "Releases from Regulated Units," final status permit and compliance monitoring program.				
116-H-7	Retention basin	100-HR-1	194.5 x 86.0 x 7.3 (height). Depth estimated to be 4.6 meters below	1949-1965	Site was a concrete-lined rectangular structure that received cooling water effluent from the 105-H Reactor for radioactive decay and thermal cooling.	Interim Closed	WSRF 2001-026 CVP-2000-00027	Mar. 17, 1999	Aug. 24, 2000	Aug. 10-24, 2000 and Dec. 6, 2000	218,130	4.8	Cobalt-60	0.053 U	10.2000	0.0400	19.7000
													Cesium-137	0.2340	48.6000	0.1140	19.2000
													Europium-152	0.6760	116.0000	0.2720	241.7000
													Europium-154	0.17 U	11.6000	0.1280	18.8000

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			ground surface (bgs)										Europium-155	0.14 U	0.84 U	0.1020	0.5100
													Nickel-63	3.14 U	1530.0000	3.0930	1224.0000
													Plutonium-238	0.013 U	0.486 J	0.0590	0.1470
													Plutonium-239/240	0.011 U	5.5500	0.0420	1.6000
													Strontium-90	0.0753 U	4.2600	0.1700	2.4700
													Uranium-238	0.71 J	0.591 J	0.4820	0.4600
													Lead	31.0000	16.0000	19.3000	9.1700
													Hexavalent Chromium	1.1000	10.0000	0.8980	4.0700
													Chromium Total	32.0000	110.0000	18.5000	57.1000
													Aroclor-1242	0.33 U	0.3360	0.0330	0.3300
													Aroclor-1260	0.6600	0.6600	0.0840	0.2400
116-H-9	Crib	100-HR-1	6.1 x 6.1 x 4.6	1960-1965	Site was designed to receive drainage from the 117-H Filter Building seal pits. Received 300,000 L of effluent from 132-H-2 Reactor Exhaust Air Filter building seal pits.	Interim Closed	WSRF/RSVP-2009-047	Oct. 28, 2008	Feb. 3, 2009	Jul. 16, 2009	2,430	4.6	Plutonium-238	0.0270	/	0.0190	/
													Uranium-233/234	0.7900	/	0.6410	/
													Uranium-238	0.88	/	0.69	/
													Antimony	0.534 J	/	0.43	/
													Arsenic	4.26	/	3.59	/
													Barium	94.30	/	67.80	/
													Beryllium	0.35	/	0.27	/
													Boron	1.52 B	/	1.27	/
													Cadmium	0.112 B	/	0.10	/
													Chromium Total	13.40	/	12.00	/
													Cobalt	7.75	/	6.24	/
													Copper	16.20	/	13.70	/
													Hexavalent Chromium	0.42	/	/	/
													Lead	8.84	/	6.65	/
													Manganese	351.00	/	283.00	/
													Mercury	0.0182 B	/	0.02	/
													Molybdenum	0.286 B	/	0.24	/
													Nickel	11.90	/	10.50	/
													Vanadium	49.00	/	42.10	/
													Zinc	13.30	/	36.70	/
													Aroclor-1254	0.02	/	/	/
													Aroclor-1260	0.01	/	/	/
118-H-1:1	Burial Ground	100-HR-2	213.4 x 106.7 x 6.1 (Includes both subsites)	1949-1965	This subsite consists of the original burial ground (trenches A-F) and sorting cells (1-3). The trenches were the primary solid waste burial ground for the 100-H Area. The sorting cells were created during remediation of the burial ground in 2008 and were used to determine the presence of suspect spent nuclear fuel and anomalies.	Interim Closed	CVP-2011-00001 WSRF-2011-034	Jul-08	Jun-09	Mar-11	34,496 BCM	6.5	Excavtion Area A				
													Carbon-14	/	/	1.6	/
													Cesium-137	/	/	0.1	/
													Cobalt-60	/	/	0.1	/
													Europium-152	/	/	0.1	/
													Plutonium-239/240	/	/	0.7	/
													Strontium-90	/	/	0.5	/
													Tritium	/	/	1.9	/
													Arsenic	/	/	3.5	/
													Barium	/	/	50.8	/
													Beryllium	/	/	0.2	/
													Boron	/	/	1.5	/
													Cadmium	/	/	0.1	/
													Chromium (total)	/	/	10.8	/
													Cobalt	/	/	5.6	/
													Copper	/	/	13.0	/
													Lead	/	/	7.1	/
													Manganese	/	/	253.0	/
													Mercury	0.018	/	/	/
													Molybdenum	/	/	0.4	/
													Nickel	/	/	10.6	/
													Selenium	1.000	/	/	/
													Vanadium	/	/	43.9	/

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													Zinc	/	/	33.6	/
													rate and Nitrite as Nitrog	/	/	3.0	/
													TPH - motor oil	/	/	0.008	/
													Acenaphthene	0.00.51	/	/	/
													Acenaphthylene	2.510	/	/	/
													Anthracene	0.006	/	/	/
													Benzo(a)anthracene	/	/	0.011	/
													Benzo(a)pyrene	/	/	0.009	/
													Benzo(b)fluoranthene	/	/	0.008	/
													Benzo(ghi)perylene	/	/	0.005	/
													Benzo(k)fluoranthene	/	/	0.005	/
													Chrysene	/	/	0.006	/
													Dibenz(a,h)anthracene	0.003	/	/	/
													Fluoranthene	/	/	16.100	/
													Indeno(1,2,3-cd)pyrene	/	/	0.008	/
													Naphthalene	0.003	/	/	/
													Phenanthrene	/	/	5.660	/
													Pyrene	/	/	0.021	/
													Excavation Area B				
													Carbon-14	/	/	1.705	/
													Cesium-137	/	/	0.314	/
													Cobalt-60	/	/	0.083	/
													Europium-152	/	/	0.129	/
													Nickel-63	/	/	3.394	/
													Strontium-90	/	/	0.754	/
													Tritium	/	/	1.166	/
													Antimony	0.257	/	/	/
													Arsenic	/	/	2.990	/
													Barium	/	/	51.600	/
													Beryllium	/	/	0.183	/
													Boron	/	/	1.720	/
													Cadmium	/	/	0.132	/
													Chromium (total)	/	/	12.100	/
													Cobalt	/	/	5.590	/
													Copper	/	/	14.500	/
													Lead	/	/	3.760	/
													Manganese	/	/	255	/
													Molybdenum	/	/	0.289	/
													Mercury	0.057	/	/	/
													Nickel	/	/	11.900	/
													Vanadium	/	/	46.000	/
													Zinc	/	/	34.300	/
													rate and Nitrite as Nitrog	/	/	1.520	/
													Acenaphthene	0.002	/	/	/
													Acenaphthylene	0.012	/	/	/
													Anthracene	0.000	/	/	/
													Benzo(a)anthracene	0.009	/	/	/
													Benzo(a)pyrene	9.190	/	/	/
													Benzo(b)fluoranthene	0.008	/	/	/
													Fluoranthene	/	/	5.8	/
													Phenanthrene	/	/	6.0	/
													Oveburden				
													Carbon-14	/	/	1.3	/
													Cesium-137	/	/	0.1	/
													Antimony	/	/	0.5	/
													Arsenic	/	/	5.9	/
													Barium	/	/	99.7	/
													Beryllium	/	/	0.3	/

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													Boron	/	/	6.2	/
													Cadmium	/	/	0.1	/
													Chromium (total)	/	/	13.4	/
													Cobalt	/	/	7.7	/
													Copper	/	/	16.2	/
													Lead	/	/	21.0	/
													Manganese	/	/	341.0	/
													Mercury	0.011	/	/	/
													Molybdenum	/	/	0.366	/
													Nickel	/	/	13.100	/
													Selenium	0.326	/	/	/
													Silver	/	/	0.388	/
													Vanadium	/	/	57.2	/
													Zinc	/	/	44.0	/
													trate and Nitrite as Nitrog	/	/	7.1	/
													TPH - diesel range	/	/	5.3	/
													TPH - motor oil	/	/	14.8	/
													Acenaphthene	/	/	0.100	/
													Acenaphthylene	0.250	/	/	/
													Anthracene	/	/	0.007	/
													Benzo(a)anthracene	/	/	0.057	/
													Benzo(a)pyrene	/	/	0.102	/
													Benzo(b)fluoranthene	/	/	0.043	/
													Chrysene	/	/	0.122	/
													Dibenz(a,h)anthracene	0.001	/	/	/
													Fluoranthene	/	/	0.384	/
													Fluorene	/	/	6.050	/
													Indeno(1,2,3-cd)pyrene	/	/	0.101	/
													Naphthalene	0.028	/	/	/
													Phenanthrene	/	/	0.081	/
													Pyrene	/	/	0.215	/
													Aroclor-1254	0.008	/	/	/
													Sorting Cell				
													Carbon-14	/	/	1.081	/
													Cesium-137	/	/	0.398	/
													Cobalt-60	/	/	0.040	/
													Europium-152	/	/	0.072	/
													Strontium-90	/	/	0.257	/
													Tritium	/	/	1.826	/
													Arsenic	/	/	3.340	/
													Barium	/	/	47.9	/
													Beryllium	/	/	0.182	/
													Boron	/	/	1.260	/
													Cadmium	/	/	0.108	/
													Chromium (total)	/	/	11.9	/
													Cobalt	/	/	5.3	/
													Copper	/	/	13.2	/
													Lead	/	/	6.1	/
													Manganese	/	/	254	/
													Mercury	0.032	/	/	/
													Molybdenum	/	/	0.319	/
													Nickel	/	/	10.8	/
													Silver	0.131	/	/	/
													Vanadium	/	/	42.5	/
													Zinc	/	/	32.2	/
													trate and Nitrite as Nitrog	/	/	3.050	/
													TPH - motor oil	8.940	/	/	/
													Benzo(a)pyrene	/	/	0.002	/

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													Acenaphthene	0.005	/	/	/
													Benzo(a)anthracene	0.002	/	/	/
													Benzo(ghi)perylene	0.002	/	/	/
													Benzo(b)fluoranthene	/	/	0.002	/
													Benzo(k)fluoranthene	1.300	/	/	/
													Chrysene	0.002	/	/	/
													Fluoranthene	/	/	0.003	/
													Indeno(1,2,3-cd)pyrene	0.002	/	/	/
													Phenanthrene	/	/	0.003	/
													Pyrene	0.007	/	/	/
													Focus Samples				
													Carbon-14	2.120	/	/	/
													Cesium-137	1.020	/	/	/
													Cobalt-60	0.062	/	/	/
													Europium-152	0.302	/	/	/
													Nickel-63	10.8	/	/	/
													Plutonium-239/240	0.351	/	/	/
													Strontium-90	1.410	/	/	/
													Tritium	8.690	/	/	/
													Antimony	0.226	/	/	/
													Arsenic	4.110	/	/	/
													Barium	98.3	/	/	/
													Beryllium	0.206	/	/	/
													Boron	4.160	/	/	/
													Cadmium	0.306	/	/	/
													Chromium (total)	22.0	/	/	/
													Cobalt	7.7	/	/	/
													Copper	18.7	/	/	/
													Lead	10.9	/	/	/
													Manganese	295	/	/	/
													Mercury	0.202	/	/	/
													Molybdenum	0.294	/	/	/
													Nickel	12.0	/	/	/
													Vanadium	44.9	/	/	/
													Zinc	40.700	/	/	/
													trate and Nitrite as Nitrog	3.480	/	/	/
													TPH - diesel range	17500	/	/	/
													TPH - motor oil	30.3	/	/	/
													Acenaphthene	0.005	/	/	/
													Benzo(a)anthracene	0.005	/	/	/
													Benzo(a)pyrene	0.000	/	/	/
													Benzo(b)fluoranthene	0.010	/	/	/
													Benzo(ghi)perylene	0.005	/	/	/
													Benzo(k)fluoranthene	0.002	/	/	/
													Chrysene	0.025	/	/	/
													Dibenz(a,h)anthracene	0.001	/	/	/
													Fluoranthene	0.013	/	/	/
													Indeno(1,2,3-cd)pyrene	0.015	/	/	/
													Naphthalene	8.240	/	/	/
													Phenanthrene	0.005	/	/	/
													Pyrene	0.011	/	/	/
													Aroclor-1254	0.029	/	/	/
													Aroclor-1260	0.028	/	/	/

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Site Code	Site Type	Operable Unit	Site Dimensions (m)	Dates of Operation	Site History	Class Status	Decision/ Closeout 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	Maximum Concentration (pCi/g, mg/kg) Shallow[a]	Maximum Concentration (pCi/g, mg/kg) Deep[b]	95% UCL (pCi/g, mg/kg) Shallow[a]	95% UCL (pCi/g, mg/kg) Deep[b]
118-H-1:2	Burial Ground	100-HR-2	213.4 x 106.7 x 6.1 (Includes both subsites)	1949-1965	This subsite consists of the two anomaly staging areas and a fuel bunker. The anomalies stored there included lead bricks, process tubing, oil drums, and miscellaneous reactor hardware. The fuel bunker was constructed to store pieces of reactor fuel prior to characterization and dismantling.	Interim Closed	CVP-2011-00003 WSRF-2011-068	Feb-11	Jun-11	May-17	352 BCM	0.3	Tritium	/	/	0.019258465	/
													Arsenic	/	/	4.5	/
													Barium	/	/	87.9	/
													Beryllium	/	/	0.19	/
													Boron	/	/	2.3	/
													Cadmium	/	/	0.14	/
													Chromium (total)	/	/	12.8	/
													Cobalt	/	/	8.2	/
													Copper	/	/	17	/
													Hexavalent chromium	/	/	0.51	/
													Lead	/	/	11.2	/
													Manganese	/	/	338	/
													Mercury	0.01	/	/	/
													Molybdenum	0.0004	/	/	/
													Nickel	/	/	12.9	/
													Vanadium	/	/	44.1	/
													Zinc	/	/	43.7	/
													TPH - diesel range	0.0076	/	/	/
													TPH - diesel range EXT	/	/	4.26	/
													Anthracene	0.012	/	/	/
													Benzo(a)anthracene	0.089	/	/	/
													Benzo(a)pyrene	0.11	/	/	/
													Benzo(b)fluoranthene	0.074	/	/	/
													Benzo(ghi)perylene	0.06	/	/	/
													Benzo(k)fluoranthene	0.04	/	/	/
													Chrysene	0.096	/	/	/
													Fluoranthene	0.24	/	/	/
													Fluorene	0.0073	/	/	/
													Indeno(1,2,3-cd)pyrene	0.68	/	/	/
													Phenanthrene	130	/	/	/
													Pyrene	0.26	/	/	/
													Focus Samples				
													Carbon-14	0.806	/	/	/
													Arsenic	3.7	/	/	/
													Barium	53.7	/	/	/
													Beryllium	0.11	/	/	/
													Boron	1.3	/	/	/
													Cadmium	0.12	/	/	/
													Chromium (total)	12	/	/	/
													Cobalt	6.6	/	/	/
													Copper	15.1	/	/	/
													Hexavalent chromium	0.369	/	/	/
													Lead	11.7	/	/	/
													Manganese	273	/	/	/
													Nickel	12.2	/	/	/
													Vanadium	37.1	/	/	/
													Zinc	36.8	/	/	/
													TPH - diesel range	2.4	/	/	/
													TPH - diesel range EXT	4.1	/	/	/
													Anthracene	0.0076	/	/	/
													Benzo(a)anthracene	0.043	/	/	/
													Benzo(a)pyrene	0.033	/	/	/
													Benzo(b)fluoranthene	0.035	/	/	/
													Benzo(ghi)perylene	0.011	/	/	/
													Benzo(k)fluoranthene	0.016	/	/	/
													Chrysene	0.035	/	/	/
													Fluoranthene	0.083	/	/	/
													Indeno(1,2,3-cd)pyrene	0.026	/	/	/
													Phenanthrene	0.031	/	/	/
													Pyrene	0.052	/	/	/

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118-H-2	Burial Ground	100-HR-2	42.7 x 15.2	1955-1965	This site consists of two in-line concrete vaults. The east vault received one stainless steel double tube removed from the reactor in 1955 after several years of irradiation. Within the same area, there are solutions that were used to clean the tube and miscellaneous capsule components. The west vault was constructed in 1958 and used during deactivation of the 105-H Reactor for disposal of a small amount of contaminated pipe.	Interim Closed	WSRF 2010-023 CVP-2010-00002	Apr. 20, 2009	Jun. 16, 2009	Jan. 26 & 27, 2010	4,366+BCM	5 (one decision unit, shallow zone)	Cesium-137	0.2950	/	0.0810	/
													Cobalt-60	0.2140	/	0.0660	/
													Nickel-63	13.4000	/	2.3600	/
													Uranium-233/234	0.6490	/	0.4950	/
													Uranium-235	0.0320	/	0.0560	/
													Uranium-238	0.6910	/	0.5590	/
													Arsenic	8.4700	/	5.3100	/
													Barium	78.8000	/	64.4000	/
													Beryllium	0.2830	/	0.2260	/
													Boron	1.9200	/	1.3800	/
													Cadmium	0.100 B	/	0.0863	/
													Chromium Total	11.3000	/	10.1000	/
													Cobalt	6.1800	/	5.8200	/
													Copper	15.7000	/	13.9000	/
													Hexavalent chromium	0.2400	/	0.1400	/
													Lead	29.0000	/	18.2000	/
													Manganese	296.0000	/	266.0000	/
													Mercury	0.0145	/	/	/
													Molybdenum	0.424 B	/	0.3050	/
													Nickel	19.4000	/	11.5000	/
													Vanadium	46.3000	/	41.9000	/
													Zinc	37.2000	/	34.1000	/
118-H-3	Burial Ground	100-HR-2	30 x 114 x 95 x 122 (uneven polygon) x 6.096 (depth)	1953-1957	The burial ground received components and hardware from reactor modification programs. The site contains sections of contaminated 41 cm- (16.1-in.-) diameter pipe used as chutes for removal of thimbles from the 105-H Building during outages, reactor hardware, and components from reactor modification programs.	Interim Closed	WSRF-2010-044/CVP-2010-00006	4-Mar-09	22-Apr-09	15-Apr-10	6384 BCM	5.5 m	Uranium-233/234	0.89	/	0.68	/
													Uranium-235	0.03	/	0.06	/
													Uranium-238	0.80	/	0.62	/
													Antimony	1.14	/		/
													Arsenic	5.44	/	4.85	/
													Barium	141.00	/	89.00	/
													Beryllium	0.59	/	0.33	/
													Boron	7.03	/	3.08	/
													Cadmium	0.36	/	0.15	/
													Chromium (total)	18.60	/	13.60	/
													Cobalt	10.20	/	6.97	/
													Copper	40.90	/	22.80	/
													Hexavalent chromium	0.08	/	/	/
													Lead	10.30	/	7.75	/
													Manganese	560.00	/	339.00	/
													Mercury	0.01	/	/	/
													Molybdenum	2.67	/	0.88	/
													Nickel	19.30	/	15.40	/
													Silver	0.42	/	/	/
													Vanadium	51.30	/	45.60	/
													Zinc	242.00	/	86.10	/
													Aroclor-1260	68.8000	/	/	/
													Trench A and Waste Staging Pile				
													Uranium-233/234	0.81	/	0.60	/
													Uranium-238	1.15	/	0.62	/
													Arsenic	4.38	/	3.12	/
													Barium	108.00	/	75.34	/
													Beryllium	0.42	/	0.26	/
													Boron	3.28	/	2.15	/
													Cadmium	0.13	/	0.10	/
													Chromium (total)	14.40	/	11.90	/
													Cobalt	7.81	/	6.17	/
													Copper	18.00	/	14.08	/
													Hexavalent chromium	0.40	/	/	/
													Lead	14.70	/	7.21	/
													Manganese	372.00	/	307.00	/
													Mercury	0.02	/		/
													Molybdenum	0.32	/	0.28	/

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													Nickel	13.20	/	10.87	/			
													Vanadium	51.10	/	45.48	/			
													Zinc	48.10	/	39.30	/			
													Aroclor-1260	9.44	/	/	/			
													Focused Samples							
													Cesium-137	0.23	/	/	/			
													Cobalt-60	0.53	/	/	/			
													Nickel-63	8.76	/	/	/			
													Uranium-233/234	1.07	/	/	/			
													Uranium-238	0.95	/	/	/			
													Arsenic	4.80	/	/	/			
													Barium	56.70	/	/	/			
													Beryllium	0.21	/	/	/			
													Boron	2.63	/	/	/			
													Cadmium	0.81	/	/	/			
													Chromium (total)	9.11	/	/	/			
													Cobalt	5.69	/	/	/			
													Copper	15.10	/	/	/			
													Lead	11.60	/	/	/			
													Manganese	255.00	/	/	/			
													Molybdenum	0.36	/	/	/			
													Nickel	8.55	/	/	/			
													Vanadium	48.30	/	/	/			
													Zinc	36.90	/	/				
118-H-4	Burial Ground	100-HR-2	45.7 x 9.1 x 3.0	1953	This site received solid waste from the ball 3X Project in 1953 and contains thimbles, guides, and radioactive materials removed from the 100-H Reactor.	Interim Closed	CVP-2010-00003	Nov. 4, 2008	May. 4, 2010	N/A	1,600 BCM	4.5		Excavation			Staging Pile			
														Maximum	95% UCL	Focused Samples Max only	Maximum	95% UCL		
													Cesium-137	2.81	0.671	0.254	0.384	0.168		
													Cobalt-60	0.102	0.0503	/	/	/		
													Strontium-90	1.26	0.587	/	/	/		
													Arsenic	3.9	3.43	2.1	5.3	4.07		
													Barium	88.5	68.7	46.3	73.2	63		
													Beryllium	0.306	0.224	0.148	0.203	0.177		
													Boron	2.38	1.65	1.44	5.21	2.74		
													Cadmium	0.155 B	0.132	0.113	0.281	0.166		
													Chromium Total	13.2	11.8	9.9	11.2	9.74		
													Cobalt	7.08	5.93	4.52	6.91	6.11		
													Copper	19.7	15.1	12.6	15.5	14.9		
													Hexavalent chromium	0.09	/	/	/	/		
													Lead	13.1	10.4	4.33	47.6	33.2		
													Manganese	335	276	222	272	258		
													Mercury	0.0223	/	/	/	/		
													Molybdenum	0.680 B	0.438	0.284	0.636 B	0.5		
													Nickel	14.8	11	8.73	10.9	9.6		
													Vanadium	49	45.9	39	58	47.8		
													Zinc	43.7	39.2	40.3	168	69.4		
118-H-5	Burial Ground	100-HR-2	9.1 x 0.6 x 3.0	1953-1960	The site consists of one trench that was covered to grade with soil and marked with cement monuments. This site received a single experimental thimble assembly in 1953 and contaminated soil from the 105-H Pluto Crib in 1960.	Interim Closed	WSRF 2009-021 CVP-2009-00009	Sept. 11, 2008	Nov. 12, 2008	Jun. 10, 2009	400 BCM	3.5		Excavation		Focused				
														Max	95% UCL	Max	95% UCL			
													Carbon-14	2.76 J	1.65	/				
													Strontium-90	0.363	0.201	/				
													Uranium-233/234	0.882	0	1.12				
													Uranium-238	0.728	0	0.707				
													Arsenic	5.93	4.64	4.49				
													Barium	77.7	62.9	46.1				
													Beryllium	0.303	0.232	0.197				
													Boron	12	3.82	1.29				
													Cadmium	0.0641 B	0.085	0.0467				
													Chromium Total	12.3	10.7	10.5				
													Cobalt	6.45	5.78	5.49				
													Copper	17.8	14	13.7				
													Hexavalent Chromium	1.07	0.35	0.28				
													Lead	14	11.2	9.24				
													Manganese	307	273	257				
													Molybdenum	0.517 B	0.326	0.277				
													Nickel	10.6	9.99	10.6				

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													Vanadium	41.8	38.9	39.4	
													Zinc	41	36.4	33.9	
118-H-6:1	Reactor	100-HR-1	1387 m^2	1949-1965	This site is the 105-H Reactor Block and ISS Project. The safe storage enclosure (SSE) will remain in place to act as temporary storage for the reactor block in accordance with the Removal Action Work Plan for 105-D and 105-H Building Interim Safe Storage Projects and Ancillary Buildings. The original footprint area of the 105-H Reactor Building was approximately 6,934 m2. The final ground-level footprint area of the SSE is 1,387 m2	Accepted	CVP-2006-00003, pg 6, Table 1. Discusses future maintenance and surveillance.	N/A	N/A	N/A	N/A	N/A	As of October 2005: Placed into surveillance and maintenance for up to 75 years.				
118-H-6:2	Reactor	100-HR-1	5,760 m^2 (includes all 118-H-6 subsites)	1949-1965	This site is the 105-H Reactor Ancillary Support Areas, below-Grade Structures, and Underlying Soils. These areas did not require sampling and analysis because the structures were removed in their entirety and then disposed at the ERDF. Also per the 105-H Reactor SAP, sampling of the underlying soils was not required because the structures that were removed were not subjected to standing contaminated water and there was no mechanism for residual surface contamination to penetrate into the concrete and underlying soil.	Interim Closed	WSRF 2006-008 CVP-2006-00003	Not Documented	2004	none taken	73,966 (includes all sites addressed by CVP-2006-00003)	6	Site does not require sampling due to removal of structure in its entirety.				
118-H-6:3	Reactor	100-HR-1	5,760 m^2 (includes all 118-H-6 subsites)	1949-1965	This site is the 105-H Reactor Fuel Storage basin and underlying soils. Sample design was developed specifically to address potential contamination from the known leakage of the fuel storage basin. The evaluation of the FSB soils and deep zone side-slope soils also refer to the soils underlying waste sites 100-H-11, 100-H-12, and 100-H-14	Interim Closed	WSRF 2006-009 CVP-2006-00003	Not Documented	2004	Mar. 24-25 & Apr. 6, 2004	73,966 (includes all sites addressed by CVP-2006-00003)	6	**All Deep Zones**	**Upper Zone**	**Lower Zone**	**Upper Zone**	**Lower Zone**
													Americium-241	0.765	0.143 U	0.369	0.077
													Carbon-14	25.4 J	3.00 U	7.6	1.59
													Cesium-137	29	0.422	11.3	0.216
													Cobalt-60	0.374	0.11 U	0.199	0.037
													Europium-152	6.42	0.23 U	2.76	0.088
													Europium-154	0.89	0.31 U	0.35	0.12
													Europium-155	0.40 U	0.19 U	0.15	0.078
													Tritium (H-3)	0.247	0.568	0.092	0.332
													Nickel-63	57.5	3.62	25.9	1.79
													Neptunium-237	0.048 J	0.027 U	0.03	0.01
													Plutonium-238	0.091 U	0.036 U	0.045	0.019
													Plutonium-239/240	1.65	0.182 U	0.9	0.073
													Strontium-90	12.6	0.57	5.9	0.174
													Uranium-233/234	0.665	0.431	0.54	0.398
													Uranium-235	0.047	0.095 U	0.034	0.046
													Uranium-238	0.665	0.55	0.542	0.46
													Mercury	0.02 U	0.02 U	/	/
													Lead	34.8	2.6 U	18.9	/
													Hexavalent Chromium	0.94	0.21 U	/	/
													Aroclor-1016	0.014 UJ	0.014 U	/	/
													Aroclor-1221	0.014 UJ	0.014 U	/	/
													Aroclor-1232	0.014 UJ	0.014 U	/	/
													Aroclor-1242	0.014 UJ	0.014 U	/	/
													Aroclor-1248	0.014 UJ	0.014 U	/	/
													Aroclor-1254	0.024 J	0.014 U	/	/
													Aroclor-1260	0.014 UJ	0.014 U	/	/
118-H-6:4	Reactor	100-HR-1	5,760 m^2 (includes all 118-H-6 subsites)	1949-1965	This subsite is the shallow zone side slope soils underlying the 105-H Fuel Storage basin. The side-slope soils in the 105-H FSB shallow zone are at grade level to 4.6 m (15 ft) below grade level.	Interim Closed	WSRF 2010-037 CVP-2010-00005	Mar. 2004 and again on Mar. 17, 2009	Mar. 2004 and again on Jun. 29, 2009	Jan. 20 & 21, 2010	2,682 BCM	Not Documented		Excavation		Staging Pile	
														Maximum	95% UCL	Maximum	95% UCL
													Cesium-137	0.338	0.103	0.561	0.159
													Europium-152	/	/	0.934	0.237
													Neptunium-237	/	/	0.077	0.039
													Strontium-90	/	/	0.479	0.122
													Uranium-233/234	0.682	0.563	0.594	0.445
													Uranium-238	0.754	0.532	0.677	0.513
													Arsenic	5.12	4.13	3.42	3.13
													Barium	64.9	59.8	60.3	57.3
													Beryllium	0.206	0.188	0.181	0.166

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													Boron	0.727 B	0.74	1.15 B	0.807
													Cadmium	0.118 B	0.1	0.0981 B	0.0862
													Chromium	11	10.1	11.4	9.46
													Cobalt	7.98	6.71	6.83	6.24
													Copper	38.2	18.7	13.9	13.3
													Hexavalent chromium	/	/	0.22	/
													Lead	14	9.06	5.19	4.2
													Manganese	267	251	286	264
													Molybdenum	0.586 B	0.443	0.390 B	0.328
													Nickel	13.9	11.2	11.9	10.9
													Vanadium	62.5	48.6	55.1	46.1
													Zinc	44.2	40.3	40.5	38.2
118-H-6:5	Reactor	100-HR-1	5,760 m^2 (includes all 118-H-6 subsites)	1949-1965	This subsite is the 105-H Decontamination Pads. Three decon pads were created by the Environmental Restoration contractor Decommissioning and Demolition Project. They were deferred to the Field Remediation Closure Project in accordance with the Action Memorandum and the Removal Action Work Plan for 105-D and 105-H Building Interim Safe Storage Projects and Ancillary Buildings. This decision was documented in the Deferral of Three Decontamination Areas to the Field Remediation Project. The decontamination areas were not addressed in CVP-2006-00003.	Interim Closed	CVP 2011-00002 WSRF 2011-060	Apr-09	Mar-11	Apr-11	2,508 BCM	4	East Decon Pad				
													Carbon-14	/	/	4.123	/
													Cesium-137	/	/	0.093	/
													Technetium-99	/	/	0.253	/
													Uranium-233/234	/	/	0.683	/
													Uranium-238	/	/	0.653	/
													Antimony	/	/	0.665	/
													Arsenic	/	/	70.757	/
													Barium	/	/	87.732	/
													Beryllium	/	/	0.327	/
													Boron	/	/	2.416	/
													Cadmium	/	/	0.084	/
													Chromium (total)	/	/	13.763	/
													Cobalt	/	/	7.225	/
													Copper	/	/	13.969	/
													Hexavalent chromium	0.080	/	—	/
													Lead	/	/	424.680	/
													Manganese	/	/	341.894	/
													Molybdenum	/	/	0.482	/
													Nickel	/	/	12.231	/
													Vanadium	/	/	49.953	/
													Zinc	/	/	46.823	/
													TPH	/	/	8.253	/
													Acenaphthene	/	/	0.005	/
													Anthracene	/	/	2.636	/
													Benzo(a)anthracene	/	/	0.052	/
													Benzo(a)pyrene	/	/	0.063	/
													Benzo(b)fluoranthene	/	/	0.070	/
													Benzo(ghi)perylene	/	/	0.037	/
													Benzo(k)fluoranthene	/	/	12.467	/
													Chrysene	/	/	0.045	/
													Dibenz(a,h)anthracene	/	/	0.004	/
													Fluoranthene	/	/	0.037	/
													Fluorene	0.065	/	/	/
													Indeno(1,2,3-cd)pyrene	/	/	0.020	/
													Naphthalene	0.016	/	/	/
													Phenanthrene	/	/	63.281	/
													Pyrene	/	/	0.362	/
													Aroclor-1254	10.200	/	/	/
													Aroclor-1260	5.380	/	/	/
													Center Decon Pad				
													Carbon-14	/	/	1.242	/
													Cesium-137	/	/	0.078	/

Table E1. Waste Site Description and History with Associated Interim Action Closeout Data

Site Code	Site Type	Operable Unit	Site Dimensions (m)	Dates of Operation	Site History	Class Status	Decision/ Closeout 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	Maximum Concentration (pCi/g, mg/kg) Shallow[a]	Maximum Concentration (pCi/g, mg/kg) Deep[b]	95% UCL (pCi/g, mg/kg) Shallow[a]	95% UCL (pCi/g, mg/kg) Deep[b]
													Technetium-99	/	/	0.191	/
													Tritium	/	/	4.411	/
													Uranium-233/234	/	/	0.574	/
													Uranium-238	/	/	0.574	/
													Antimony	/	/	0.456	/
													Arsenic	/	/	7.819	/
													Barium	/	/	99.245	/
													Beryllium	/	/	0.240	/
													Boron	/	/	6.211	/
													Cadmium	/	/	0.092	/
													Chromium (total)	/	/	11.716	/
													Cobalt	/	/	6.647	/
													Copper	/	/	15.498	/
													Hexavalent chromium	0.060	/	/	/
													Lead	/	/	21.177	/
													Manganese	/	/	297.228	/
													Mercury	0.207	/	/	/
													Molybdenum	/	/	0.456	/
													Nickel	/	/	10.899	/
													Vanadium	/	/	53.525	/
													Zinc	/	/	45.161	/
													TPH	/	/	23381.910	/
													Acenaphthene	/	/	0.020	/
													Anthracene	0.014	/	/	/
													Benzo(a)anthracene	/	/	193.853	/
													Benzo(a)pyrene	/	/	0.012	/
													Benzo(b)fluoranthene	/	/	175.327	/
													Benzo(ghi)perylene	/	/	0.091	/
													Benzo(k)fluoranthene	/	/	26.234	/
													Chrysene	/	/	0.065	/
													Dibenz(a,h)anthracene	0.019	/	/	/
													Fluoranthene	/	/	0.697.	/
													Fluorene	0.007	/	/	/
													Indeno(1,2,3-cd)pyrene	/	/	0.012	/
													Naphthalene	0.044	/	/	/
													Phenanthrene	/	/	275.600	/
													Pyrene	/	/	0.817	/
													Xylenes (total)	0.001	/	/	/
													West Decon Pad				
													Carbon-14	/	/	0.842	/
													Cesium-137	/	/	0.078	/
													Tritium	/	/	5.923	/
													Uranium-233/234	/	/	0.714	/
													Uranium-238	/	/	0.739	/
													Antimony	/	/	0.501	/
													Arsenic	/	/	4.571	/
													Barium	/	/	87.732	/
													Beryllium	/	/	0.217	/
													Boron	/	/	2.085	/
													Cadmium	0.097	/	/	/
													Chromium (total)	/	/	10.844	/
													Cobalt	/	/	6.227	/
													Copper	/	/	13.847	/
													Lead	/	/	10.871	/
													Manganese	/	/	283.284	/
													Molybdenum	/	/	0.370	/
													Nickel	/	/	12.510	/
													Vanadium	/	/	46.552	/
													Zinc	/	/	42.659	/
													TPH	/	/	12.460	/
													Acenaphthene	0.003	/	/	/
													Acenaphthylene	0.004	/	/	/
													Anthracene	0.002	/	/	/
													Benzo(a)anthracene	/	/	0.012	/
													Benzo(a)pyrene	/	/	6.049	/
													Benzo(b)fluoranthene	/	/	0.005	/
													Benzo(ghi)perylene	0.008	/	/	/
													Benzo(k)fluoranthene	0.003	/	/	/
													Chrysene	/	/	0.003	/
													Dibenz(a,h)anthracene	0.001	/	/	/
													Fluoranthene	/	/	0.016	/
													Indeno(1,2,3-cd)pyrene	/	/	0.005	/
													Naphthalene	0.053	/	/	/
													Phenanthrene	/	/	0.004	/
													Pyrene	/	/	0.005	/

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													2-Hexanone	0.005	/	/	/
													Methylene chloride	0.004	/	/	/
													Focus Samples				
													Carbon-14	1.200	/	/	/
													Tritium	4.080	/	/	/
													Uranium-233/234	0.927	/	/	/
													Uranium-238	0.690	/	/	/
													Antimony	0.592	/	/	/
													Arsenic	27.000	/	/	/
													Barium	65.600	/	/	/
													Beryllium	0.251	/	/	/
													Boron	1.710	/	/	/
													Cadmium	0.103	/	/	/
													Chromium (total)	13.000	/	/	/
													Cobalt	6.700	/	/	/
													Copper	34.500	/	/	/
													Lead	114.000	/	/	/
													Manganese	311.000	/	/	/
													Molybdenum	0.264	/	/	/
													Nickel	12.600	/	/	/
													Vanadium	49.400	/	/	/
													Zinc	46.400	/	/	/
													TPH - motor oil	24.000	/	/	/
													Acenaphthene	0.008	/	/	/
													Acenaphthylene	0.001	/	/	/
													Anthracene	4.890	/	/	/
													Benzo(a)anthracene	0.053	/	/	/
													Benzo(a)pyrene	0.035	/	/	/
													Benzo(b)fluoranthene	0.056	/	/	/
													Benzo(ghi)perylene	0.051	/	/	/
													Benzo(k)fluoranthene	0.027	/	/	/
													Chrysene	0.047	/	/	/
													Dibenz(a,h)anthracene	0.007	/	/	/
													Fluoranthene	0.171	/	/	/
													Fluorene	0.004	/	/	/
													Indeno(1,2,3-cd)pyrene	0.031	/	/	/
													Naphthalene	0.010	/	/	/
													Phenanthrene	0.050	/	/	/
													Pyrene	0.149	/	/	/
118-H-6:6	Reactor	100-HR-1	5,760 m^2 (includes all 118-H-6 subsites)	1949-1965	This subsite is the 105-H Deep Zone Side Slope Soils.	Interim Closed	WSRF 2006-022 CVP-2006-00003	Not Documented	2004	Mar. 29, 2004	73,966 (includes all sites addressed by CVP-2006-00003)	6	Americium-241	/	0.273	/	0.257
													Carbon-14	/	4.32 U	/	4.43 U
													Cesium-137	/	5.01	/	5.36
													Cobalt-60	/	0.192	/	0.19
													Europium-152	/	1.26	/	1.26
													Europium-154	/	0.34 U	/	0.15 U
													Europium-155	/	0.25 U	/	0.13
													Tritium (H-3)	/	0 U	/	-0.02 U
													Nickel-63	/	14.8	/	16
													Neptunium-237	/	0.052	/	0.035
													Plutonium-238	/	0.036 U	/	0.041
													Plutonium-239/240	/	0.969	/	0.999
													Strontium-90	/	5.64	/	5.56
													Uranium-233/234	/	0.697	/	0.457
													Uranium-235	/	0.116 U	/	0.105
													Uranium-238	/	0.768	/	0.675
													Mercury	/	0.02 U	/	/
													Lead	/	22.4	/	20.1
													Hexavalent Chromium	/	1.5	/	/
													Aroclor-1016	/	0.014 U	/	/
													Aroclor-1221	/	0.014 U	/	/
													Aroclor-1232	/	0.014 U	/	/
													Aroclor-1242	/	0.014 U	/	/
													Aroclor-1248	/	0.014 U	/	/
													Aroclor-1254	/	0.014 U	/	/
													Aroclor-1260	/	0.014 U	/	/

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126-H-1	coal ash Pit	100-HR-2	76.2 x 76.2 x 3.7	1948-1965	The site is a large ash disposal pit and ash pile. coal ash from the 184-H Powerhouse was mixed with raw river water and sluiced in slurry to the ash pit. Unknown amounts of coal ash were sluiced to the pit with raw river water. ash from other Hanford Site ash pits has been analyzed using the EP Toxicity Test in accordance with WAC 173-303 and no hazardous	Rejected	WSRF 98-08	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
126-H-2	Dumping Area	100-HR-1	261.5 x 40.8; 265 x 43	1975	concrete basins used to store reactor coolant water. Eastern half contains D&D rubble (west half still intact).	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
128-H-1	Burn Pit	100-HR-2	30.48 x 30.48 x 3.048; Also reported as 172 x 163	1949-1965	Site is a large depression used for burning nonradioactive combustible materials, paint, office waste, solvents. Site also contains surface debris such as wood, metal, chunks of concrete, and so forth. CVP data is for east and west excavations	Interim Closed	WSRF 2010-062	Jun-09	May-11	Jun-11	16,310 BCM	7	Arsenic	/	/	5.18	/
													Barium	/	/	97.14	/
													Beryllium	/	/	0.31	/
													Boron	/	/	4.63	/
													Cadmium	/	/	0.16	/
													Chromium (total)	/	/	14.41	/
													Cobalt	/	/	6.79	/
													Copper	/	/	13.78	/
													Hexavalent chromium	/	/	0.15	/
													Lead	/	/	27.58	/
													Manganese	/	/	321.22	/
													Mercury	/	/	0.25	/
													Molybdenum	/	/	0.42	/
													Nickel	/	/	11.64	/
													Vanadium	/	/	51.54	/
													Zinc	/	/	40.73	/
													TPH - diesel range	28.80	/	/	/
													TPH - motor oil	/	/	22.99	/
													Acenaphthene	/	/	0.01	/
													Acenaphthylene	0.07	/	/	/
													Anthracene	0.00	/	/	/
													Benzo(a)anthracene	/	/	0.01	/
													Benzo(a)pyrene	/	/	0.01	/
													Benzo(b)fluoranthene	/	/	0.01	/
													Benzo(ghi)perylene	/	/	0.01	/
													Benzo(k)fluoranthene	/	/	0.00	/
													Chrysene	0.02	/	/	/
													Dibenz(a,h)anthracene	0.00	/	/	/
													Fluoranthene	/	/	0.03	/
													Fluorene	0.00	/	/	/
													Indeno(1,2,3-cd)pyrene	/	/	0.05	/
													Naphthalene	0.01	/	/	/
													Phenanthrene	/	/	0.01	/
													Pyrene	/	/	0.02	/
													4,4'-DDE	0.00	/	/	/
													Aroclor-1254	0.01	/	/	/
													Aroclor-1260	0.02	/	/	/
													Arsenic	/	/	3.96	/
													Barium	/	/	67.12	/
													Beryllium	0.17	/	/	/
													Boron	/	/	1.32	/
													Cadmium	/	/	0.08	/
													Chromium (total)	/	/	12.73	/
													Cobalt	/	/	6.53	/
													Copper	/	/	16.68	/
													Hexavalent chromium	0.92	/	/	/
													Lead	/	/	6.86	/
													Manganese	/	/	271.37	/
													Mercury	/	/	0.01	/
													Molybdenum	0.49	/	/	/

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													Nickel	/	/	11.55	/
													Vanadium	/	/	40.80	/
													Zinc	/	/	36.21	/
													TPH - diesel range	160.00	/	/	/
													TPH - motor oil	/	/	85.42	/
													Benzo(a)anthracene	0.01	/	/	/
													Benzo(b)fluoranthene	0.01	/	/	/
													Chrysene	0.02	/	/	/
													Fluoranthene	0.02	/	/	/
													Pyrene	0.03	/	/	/
													Bis(2-ethylhexyl)phthalate	/	/	0.07	/
128-H-2	Burn Pit	100-HR-2	36.6 x 24.4; Also reported as 86 x 47	1948 OR 1965?	The site is in a depression cut into the hillside that appears to be a former borrow area. The site received combustible materials such as vegetation, office waste, paint waste, and chemical solvents. Evidence of burning is not readily visible, but the following surface debris was observed in 2000: wood, metal cables, cans, lighting fixtures, concrete, and a	No Action	WSRF/RSVP-2007-008	N/A	N/A	confirmatory sampling done on Oct. 27, 2008	N/A	N/A	Hexavalent Chromium and Selenium exceeds cleanup/screening level based on WAC 173-340 Human Health 2007.				
128-H-3	Burn Pit	100-HR-2	24.5 x 4	N/K	Site is a pit resembling a trench with little to no evidence of burning other than charred rocks.	No Action	WSRF/RSVP-2007-009	N/A	N/A	confirmatory sampling done on Oct. 27, 2008	N/A	N/A	as exceeds cleanup/screening level in GROUNDWATER and River based on WAC 173-340 Human Health 2007.				
132-H-1	Burial Ground	100-HR-1	61.0 x 9.1 x 5.5	1945-1965	Site contains concrete rubble from demolition of the 105-H (116-H) Reactor Stack. The stack was used to exhaust confinement air from the work areas of the 105-H Reactor and was demolished in 1983. The stack and its foundation were demolished with explosives and buried in a trench.	Interim Closed	WSRF/RSVP-2006-053	16-Sep-83	1983	1983	Left in place	5.49	Carbon-14	249	/	/	/
													Cesium-137	69.4	/	/	/
													Cobalt-60	4.07	/	/	/
													Europium-152	5.77	/	/	/
													Tritium (H-3)	22.4	/	/	/
													Plutonium-239/240	27.2	/	/	/
													Strontium-90	9.49	/	/	/
132-H-2	Burial Ground	100-HR-2	16.9 x 7.0	1961-1965	This site was a concrete building that housed reactor exhaust filters. The building was built over the excavated 116-H-4 Pluto Crib. It was demolished in 1984 and left in place.	Interim Closed	WSRF/RSVP-2006-049	1983	Oct-84	1984	Left in place	9.6	Carbon-14	7	/	/	/
													Cesium-137	104	/	/	/
													Cobalt-60	56	/	/	/
													Europium-152	63			
													Europium-154	19	/	/	/
													Tritium (H-3)	41	/	/	/
													Plutonium-239/240	40	/	/	/
													Strontium-90	53	/	/	/
132-H-3	Pump Station	100-HR-1	11.0 x 10.4 x 9.6	1949-1965	This site received water from reactor building drains and irradiated fuel storage drains containing trace amounts of low-level radionuclides and decontamination chemicals, primarily Turco (a commercial chemical compound with a proprietary composition). Site collected low-level contaminated wastewater from 105-H sumps and drains and pumped it to either the 1608-H Disposal Trench or effluent pipelines. Site was a concrete building that was D&D'd in place in 1987.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1607-H1	Septic Tank	100-HR-2	4.6 x 1.7 x 4.4 (Septic Tank); 17.1 x 15.2 (Tile Field)	1948	Site is a concrete tank with a 50person capacity and tile field that received sanitary sewage from the 151-H and 105-H Reactors.	Interim Closed	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1607-H2	Septic Tank	100-HR-1	11.8 x 4.1 x 4.8 (Septic Tank), 93.3 x 30.8 x 0.9 (Drain Field)	1949-1965	Site was a concrete tank with a 500-person capacity, drain field, and associated piping that received sanitary sewage from the 182-H, 183-H, 190-H,	Interim Closed	WSRF 2000-118 CVP-2000-00024	Oct. 21, 1999	Nov. 11, 1999	May. 5, 2000	12,207	5.6[a]	Uranium-233/234	1.38	/	0.886	/
													Uranium-238	1.05	/	0.73	/
													Cesium-137	0.11	/	0.0591	/
													Hexavalent Chromium	0.68	/	0.68	/

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					and other offices and maintenance buildings.								Chromium Total	204	/	83.2	/
													Mercury	3.5	/	1.34	/
													Lead	48.5	/	36	/
													Aroclor-1254	0.16	/	0.16	/
1607-H3	Septic Tank	100-HR-1	5.8 x 2.4 x 3.7 (Septic Tank); 30 x 15 (Tile Field)	1948-1968	Site is a concrete tank with a 100 person capacity and tile field and received sanitary sewage from 1701H badge house, 1709-H Fire Station, and 1720-H Patrol Office. The 1701-H badge house included a darkroom for film badge processing. Liquids from the darkroom were disposed to the 1607-H Septic System.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1607-H4	Septic Tank	100-HR-1	1.6 x 1.0 x 2.9 (Septic Tank), 7.3 x 2.4 x 0.9 (Drain Field)	1948-1965	Site was a concrete tank with a six person capacity, drain field, and associated piping that received sanitary sewage from 181-H Pumphouse Building.	Interim Closed	WSRF 2000-129 CVP-2000-00025	Nov. 5, 1999	Jul. 24, 2000	Feb. 16 - Jul. 31, 2000	2,078	3.6	Uranium-233/234	0.705 J	/	0.484	/
													Uranium-238	0.764 J	/	0.505	/
													Cesium-137	0.137	/	0.114	/
													Chromium Total	12	/	/	/
													Hexavalent Chromium	0.44 U	/	0.44	/
													Lead	44	/	36	/
													Mercury	0.11 U	/	/	/
													Fluoranthene	1.3	/	0.96	/
													Pyrene	1.2	/	0.9	/
													benzo(a)anthracene	0.33 U	/	0.059	/
													benzo(a)pyrene	0.33 U	/	0.065	/
													benzo(b)fluoranthene	0.33 U	/	0.031	/
													benzo(k)fluoranthene	0.33 U	/	0.031	/
													Chrysene	0.33 U	/	0.11	/
													Dibenz[a,h]anthracene	0.33 U	/	0.022	/
													Indeno(1, 2, 3-cd)pyrene	0.33 U	/	0.039	/
600-151	Dumping Area	100-HR-2	45,000 m^2	Not Documented	The site is the debris remaining from a military installation that was located northwest of the 100 H Area.	Interim Closed	RSVP /WSRF 2001-053	Apr-10	Apr-10	Apr-11	1,524 BCM	0.31	Excavatin Area A				
													Arsenic	—	N/A	20.2	N/A
													Barium	—		102	
													Beryllium	—		0.18	
													Boron	—		5	
													Cadmium	—		0.28	
													Chromium (total)	—		13.1	
													Cobalt	—		7.9	
													Copper	—		22	
													Hexavalent chromium	0.306		—	
													Lead	—		133	
													Manganese	—		352	
													Mercury	—		0.014	
													Molybdenum	0.47		—	
													Nickel	—		12.9	
													Selenium	0.94		—	
													Vanadium	—		41	
													Zinc	—		64.5	
													Acetone	0.0068		—	
													Methylene chloride	0.0061		—	
													4,4'-DDE	0.0012		—	
													4,4'-DDT	0.00089		—	
													TPH - diesel range	—		11.084	
													TPH - diesel range EXT	—		20.733	
													Anthracene	0.0074		—	
													Benzo(a)anthracene	—		0.0972	
													Benzo(a)pyrene	—		0.0998	
													Benzo(b)fluoranthene	—		0.0708	
													Benzo(ghi)perylene	—		0.0386	
													Benzo(k)fluoranthene	—		0.0372	

Table E1. Waste Site Description and History with Associated Interim Action Closeout Data

Site Code	Site Type	Operable Unit	Site Dimensions (m)	Dates of Operation	Site History	Class Status	Decision/ Closeout 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	Maximum Concentration (pCi/g, mg/kg) Shallow[a]	Maximum Concentration (pCi/g, mg/kg) Deep[b]	95% UCL (pCi/g, mg/kg) Shallow[a]	95% UCL (pCi/g, mg/kg) Deep[b]
													Chrysene	—		0.0921	
													Dibenz(a,h)anthracene	0.023		—	
													Fluoranthene	—		0.128	
													Fluorene	0.0067		—	
													Indeno(1,2,3-cd)pyrene	—		0.0361	
													Phenanthrene	—		0.063	
													Pyrene	—		0.179	
													Excavation Area B				
													Arsenic	—		83.4	
													Barium	—		90	
													Beryllium	—		0.13	
													Boron	—		2.2	
													Cadmium	—		0.73	
													Chromium (total)	—		12.2	
													Cobalt	—		7.4	
													Copper	—		14.3	
													Lead	—		679	
													Manganese	—		361	
													Mercury	—		0.013	
													Molybdenum	0.33		—	
													Nickel	—		11.5	
													Vanadium	—		38.1	
													Zinc	—		46.4	
													2-Butanone	0.00.9		—	
													Acetone	0.03		—	
													Methylene chloride	0.011		—	
													4,4'-DDE	0.00047		—	
													TPH - diesel range	—		2.12	
													TPH - diesel range EXT	—		7.854	
													Benzo(a)anthracene	—		0.018	
													Benzo(a)pyrene	0.045		—	
													Benzo(b)fluoranthene	—		0.019	
													Benzo(ghi)perylene	0.035		—	
													Benzo(k)fluoranthene	0.021		—	
													Chrysene	—		0.024	
													Fluoranthene	0.093		—	
													Phenanthrene	0.046		—	
													Pyrene	0.1		—	
													Excavation Area C				
													Arsenic	—		67.4	
													Barium	—		147	
													Beryllium	—		0.14	
													Boron	—		2.8	
													Cadmium	—		0.56	
													Chromium (total)	—		13.1	
													Cobalt	—		7.7	
													Copper	—		16.1	
													Lead	—		712	
													Manganese	—		322	
													Mercury	—		0.023	
													Molybdenum	0.37		—	
													Nickel	—		12.4	
													Vanadium	—		38.5	
													Zinc	—		64.3	
													Methylene chloride	0.0034		—	
													4,4'-DDE	0.0034		—	
													4,4'-DDT	0.00091		—	
													TPH - diesel range	—		9.123	
													TPH - diesel range EXT	—		22.089	
													Anthracene	0.0067		—	

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Site Code	Site Type	Operable Unit	Site Dimensions (m)	Dates of Operation	Site History	Class Status	Decision/ Closeout 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	Maximum Concentration (pCi/g, mg/kg) Shallow[a]	Maximum Concentration (pCi/g, mg/kg) Deep[b]	95% UCL (pCi/g, mg/kg) Shallow[a]	95% UCL (pCi/g, mg/kg) Deep[b]
													Benzo(a)anthracene	—		0.034	
													Benzo(a)pyrene	—		0.035	
													Benzo(b)fluoranthene	—		0.077	
													Benzo(ghi)perylene	—		0.024	
													Benzo(k)fluoranthene	—		0.014	
													Chrysene	—		0.129	
													Fluoranthene	—		0.063	
													Fluorene	0.009		—	
													Indeno(1,2,3-cd)pyrene	—		0.027	
													Naphthalene	0.018		—	
													Phenanthrene	—		0.056	
													Pyrene	—		0.083	
600-152	Septic Tank	100-HR-2	Not Documented	?-1954	The waste site consisted of an underground septic tank and several surface features, including three in-line concrete covers and two manholes, which allowed access to the septic tank. Underground piping connected the surface features and the septic tank. Residue in the tanks, that looked like rainwater, was sampled in October 2001. Due to an elevated level of beta in the sample results, the tank was posted with Underground Radioactive Material signs and not backfilled.	Interim Closed	WSRF/RSVP-2009-019 .	Oct. 13, 2008	Nov. 10, 2008	May. 13, 2009	287 BCM	5		Excavation		Overburden	
														Maximum	95% UCL	Maximum	95% UCL
													Strontium-90	/	/	0.266 J	0.068
													Arsenic	7.92 J	6.27	5.91 J	4.42
													Barium	91.4	78.6	65.2	58.8
													Beryllium	0.363	0.312	0.263	0.247
													Boron	2.48	2.09	1.99	1.58
													Cadmium	0.126 B	0.104	0.103 B	0.0811
													Chromium Total	14	13	13.2	12.6
													Cobalt	7.09	6.52	5.96	5.76
													Copper	15.6	14.3	91.4	31.2
													Lead	36.5 J	26.5	13.6 J	10.2
													Manganese	357	322	290	280
													Mercury	0.0152 B	0.014	0.0168 B	0.0141
													Molybdenum	0.346 B	0.304	0.284 B	0.259
													Nickel	13.2	11.9	13.2	11.6
													Vanadium	44.7 J	41.8	39.6 J	38
													Zinc	47.5	43	41.7	38.6
													Benzo(a)anthracene	0.0177	0.00934	0.0282	0.0213
													Benzo(a)pyrene	0.0285	0.0189	0.0439	0.0362
													Benzo(b)fluoranthene	0.0225	0.015	0.0434	0.0298
													Benzo(ghi)perylene	0.0234	0.0153	0.0351	0.0243
													Benzo(k)fluoranthene	0.01	0.00525	0.0156	0.00916
													Chrysene	0.0214	0.0119	0.0305	0.0195
													Dibenz[a,h]anthracene	0.00273	/	0.00442	0.00187
													Fluoranthene	0.075	0.0795	0.0635	0.0689
													Indeno(1, 2, 3-cd)pyrene	0.02	0.0133	0.0288	0.0225
													Phenanthrene	0.014	0.0104	0.0213	0.0218
													Pyrene	0.0328	0.0237	0.0523	0.0521
													Acenaphthylene	0.0353	/	/	/
													Anthracene	0.00113	/	0.0428	/
													Fluorene	0.00349	/	0.00188	/
600-258	Dumping Area	100-HR-2	828.8 x 7.3	Pre-Hanford	The site is surface debris from pre - Hanford activities. It is on the riverbank, facing the White Bluffs, and is covered with vegetation matching the surrounding terrain. The material consists of rusted metal wire used to wrap wooden irrigation pipes, old bedsprings, food cans, a small concrete box (filled in with soil), and a little	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

Table E1. Waste Site Description and History with Associated Interim Action Closeout Data

Site Code	Site Type	Operable Unit	Site Dimensions (m)	Dates of Operation	Site History	Class Status	Decision/ Closeout 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	Maximum Concentration (pCi/g, mg/kg) Shallow[a]	Maximum Concentration (pCi/g, mg/kg) Deep[b]	95% UCL (pCi/g, mg/kg) Shallow[a]	95% UCL (pCi/g, mg/kg) Deep[b]
600-380	Dumping Area	100-HR-2	Not Documented	Not Documented	This small site is the location of a corroded compressed gas type cylinder.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-381	Depression Pit	100-HR-2	Not Documented	Not Documented	This location consists of two wooden air vents covered with screening protruding from the ground. There is a below grade structure of unknown size.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-382:1	Unplanned Release	100-HR-2	Not Documented	Not Documented	This subsite consists of two oil filters surrounded by soil devoid of vegetation.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-382:2	Unplanned Release	100-HR-2	Not Documented	Not Documented	This subsite consists of three oil filters and a small area of soil devoid of vegetation.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-382:3	Unplanned Release	100-HR-2	Not Documented	Not Documented	This subsite consists of an oil filter that is surrounded by soil devoid of vegetation.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-382:4	Unplanned Release	100-HR-2	3 m^2	Not Documented	This subsite is a small 3 m^2 area that is devoid of vegetation.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-382:5	Unplanned Release	100-HR-2	Not Documented	Not Documented	This subsite consists of three oil filters within a small area devoid of	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-383:1	Dumping Area	100-HR-2	Not Documented	Not Documented	This subsites consists of a 4 m diameter area of batteries.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-383:2	Dumping Area	100-HR-2	Not Documented	Not Documented	This subsites consists of a small area of dry cell batteries.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-383:3	Dumping Area	100-HR-2	Not Documented	Not Documented	This subsites consists of a small area of twenty-two dry cell batteries.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-383:4	Dumping Area	100-HR-2	Not Documented	Not Documented	This subsites consists of a small area of dry cell batteries.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-383:5	Dumping Area	100-HR-2	Not Documented	Not Documented	This subsites consists of a two small area of dry cell batteries. The area is devoid of vegetation.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-383:6	Dumping Area	100-HR-2	1 m	Not Documented	This subsites consists of a small area of dry cell batteries.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-383:7	Dumping Area	100-HR-2	Not Documented	Not Documented	This subsites consists of a small area of wet cell car batteries.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-383:8	Dumping Area	100-HR-2	Not Documented	Not Documented	This subsites consists of a small area of dry cell batteries.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-383:9	Dumping Area	100-HR-2	5 m diameter	Not Documented	This subsites consists of a small area of dry cell batteries.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-383:10	Dumping Area	100-HR-2	2 m diameter	Not Documented	This subsites consists of a small area of dry cell batteries.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-384:1	Unplanned Release	100-HR-2	4 m diameter	Not Documented	This subsites consists of a small area of yellow and white powder.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-384:2	Unplanned Release	100-HR-2	15 m diameter	Not Documented	This subsites consists of a small area of yellow and white powder.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-384:3	Unplanned Release	100-HR-2	Not Documented	Not Documented	This subsites consists of two small areas of discolored soil	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-384:4	Unplanned Release	100-HR-2	4 m diameter	Not Documented	This subsites consists of a small area of discolored soil	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-384:5	Unplanned Release	100-HR-2	1.5 m diameter	Not Documented	This subsites consists of a small area of discolored soil	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
600-385	Dumping Area	100-HR-2	5334 m^2	Not Documented	The site is an area of scattered transite, concrete and metal debris. The site is located near a pre-Hanford farmstead and pre-Hanford military camp.	Accepted	Not Documented	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Foot Notes:

/ = no data collected

BG = background

CERCLA = comprehensive Environmental Response, compensation and Liability Act of 1980

COC = contaminant of concern

COPC = contaminant of potential concern

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D&D = decontamination and decommissioning																	
Ecology = Washington State Department of Ecology																	
ERDF = Environmental Restoration Disposal Facility																	
FH = Fluor Hanford																	
FSB = Fuel Storage basin																	
GPERS = Global Positioning Environmental Radiological Surveyor																	
N/A = information not available																	
BCM = bank cubic meters																	
Qualifier Codes:																	
B = INORGANICS and WETCHEM - the analyte was detected at a value less than the contract required detection limit (RDL), but greater than upper limit of the analysis range.																	
C= INORGANICS/WETCHEM - The analyte was detected in both the sample and the associated QC blank, and the sample concentration was <=5X the blank concentration. ORGANICS (PESTICIDE only) - The identification of a pesticide confirmed by gas chromatograph/mass spectrometer (GC/MS).																	
D = diluted																	
J = ORGANICS - associated value is an estimated quantity																	
L = interference																	
M = INORGANICS - duplicate precision not met																	
N = ALL (except GC/MS based analysis) - Spike and/or spike duplicate sample recovery is outside control limits. ORGANICS (GC/MS ony) - Presumptive evidence of compound based on mass spectral library search.																	
P = Aroclor target analyte with greater than 2% difference between columns.																	
U = Undetected																	
X = The result-specific translation of this qualifier code is provided in the hardcopy data report and/or case narrative. Additional result-specific translation information may also be found in the RESULT_COMMENT field for this record.																	
Notes:																	
a. Shallow zone: soil 0 to 4.6 m (0 to 15 ft) in depth.					k. Very few areas of the excavation site were greater than 4.6 m (15 ft) and because field screening for radionuclides indicated that those areas met direct exposure RAGs, all of the RAGs were applied to the entire site.												
b. Deep zone: soil greater than 4.6 m (15 ft) in depth.																	
c. Unadjusted Statistical Values.																	
d. COC typically represented the 95% UCL.																	
e. To determine compliance with the RAGs, the residual radioactivity in the 105-D FSB floor concrete was modeled with the RESRAD dose assessment model in the post-drilling rural-residential exposure scenario.																	
f. There were no results reported for the COC Strontium-90 in the deep zone soil. Strontium-90 and Nickel-63 have similar partition coefficients (Strontium-90 Kd = 25, Nickel-63 Kd = 30) and Nickel-63 was measured in both the deep zone concrete and soil. Therefore, Strontium-90 in the soil was estimated by applying the equation [Strontium-90(soil) = Ni -63 (soil)* Strontium-90 (concrete)/Nickel-63 (concrete)].																	
g. Aroclor-1260 is the only identified coca for this site.																	
h. COPC for this site but was not detected above Washington State background (WAC 173-340).																	
i. Total strontium results are used as a conservative representation of Strontium-90.																	
j. because a more detailed analysis of lead was required to demonstrate groundwater and river lead, deep zone was divided into two levels.																	