Tri-Party Agreement

U.S. Department of Energy
Washington State Department of Ecology
U.S. Environmental Protection Agency

100 Area "Plug-In" and Candidate Waste Sites for Fiscal Year 2010

Annual listing of waste sites plugged into the remove, treat and dispose remedy in the 1999 interim action Record of Decision for the 100 Area

The interim action Record of Decision (ROD) for the 100 Area Remaining Sites issued in July 1999 authorized the use of a "Plug-In" or "Analogous Sites" approach for additional waste sites. The approach allows additional waste sites to be cleaned up under the ROD under certain conditions. The conditions apply to candidate or newly discovered waste sites that fit the 100 Area site profile, and where contaminant concentrations exceed cleanup levels established in the ROD. Remove, treat as necessary, and dispose (RTD) is the selected remedy for the sites.

The 100 Area site profile is based on the site characteristics that were detailed in a study that evaluated remedial alternatives for waste site cleanup. The characteristics are defined by the following:

- Types of contaminants
- Types of contaminated environmental media
- Types of contaminated waste material

When a newly discovered site fits the site profile, and contaminant levels exceed cleanup levels, it is appropriate to use the plug-in approach and apply the RTD remedy for remediation of a waste site.

The 2009 Explanation of Significant Differences (ESD) to the ROD authorized that sites where the plug-in approach has been used will be documented in the Administrative Record, and a fact sheet will be published annually identifying the sites that have been added. Fact sheets will be published only for years when the plug-in approach is used.

In FY2010, 63 sites were added to the RTD remedy. The sites are listed in Tables 1 and 2. The sites listed in Table 1 are being cleaned up because contaminant concentrations exceeded established cleanup levels. Table 2 lists the candidate sites, which require further evaluation, such as historical research or sampling, before deciding if the RTD remedy is appropriate.

Remediation of the Hanford 100 areas.

Background

Hanford's nine retired plutonium production reactors and numerous associated facilities are located in the six major sites designated as 100 areas. They are the B/C, D/DR, F, H, KE/KW and N areas. Activities conducted in support of reactor operations at each area resulted in the creation of hundreds of waste sites and contamination of the soil and groundwater. The types of waste sites included in the 100 Areas cleanup effort include liquid waste disposal trenches, solid waste burial grounds, underground pipeline networks, sanitary sewer systems, burn pits and dumping areas, and pre- and post-Hanford military camps and industrial areas. Primary contaminants include radionuclides, as well as inorganic and organic constituents.

Characterization and remediation activities at waste sites have been under way in the 100 areas since 1997 with the exception of waste sites associated with the 100-KW Fuel Storage Basin. Remediation of those sites will follow removal of the sludge from the FSB in 2015.

The selected remedy in the ROD includes the following components:

- Removal of contaminated soil, structures, and associated debris
- Treatment, as necessary, to meet waste acceptance criteria at an acceptable disposal facility
- Disposal of contaminated materials at the Hanford Site's Environmental Restoration Disposal Facility; the Waste Isolation Pilot Plant in Carlsbad, New Mexico; or other facilities approved in advance by the U.S. Environmental Protection Agency
- Recontouring and backfilling of excavated areas followed by revegetation
- Institutional controls, as necessary, to prevent unacceptable exposures to residential contamination.

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Table 1. Sites Added to 100 Area Remaining Sites ROD

Operable Unit	Site Name	Current Site Knowledge	Material/ Media	Known or Potential Contamination	Estimated or Actual Cost of Site Remediation
100-BC-2	100-B-31, Garnet Sand Located at 183-Clearwell Pads*	The site consisted of scattered garnet sands and contaminated sandblasting residue on the 183-C Clearwell concrete pads and surrounding soils. The area has been remediated and closed out under the interim action ROD.	Soil	Inorganic chemicals	$612,031
100-BC-1	100-B-32, Soil Contaminatio n Area Associated with Legacy Waste, SCA #1*	The site was a Surface Contamination Area (SCA) in an asphalt roadway. Field instrumentation found a location with approximately 3.4 million dpm/100 square centimeters beta/gamma activity which has been remediated and closed out under the interim action ROD.	Soil and debris	Radiological	$62,212
100-BC-1	100-B-33, SCA Area 2 Associated with Legacy Waste*	The site was a Surface Contaminated Area (SCA) discovered during GPERS surface soil surveys near the former location of the 116-C-5 Retention Basin. Field instrumentation showed readings averaging 15,000 cpm over a 150 square meter area with a max reading of 93,000 cpm. The area has been remediated and closed out under the interim action ROD.	Soil and debris	Radiological	$58,745
100-DR-1	100-D-104, Unplanned release near 185-D Sodium Dichromate Storage Tank and Acid Neutralizatio n French Drain	This site encompasses an area of 910 square meters (9,792 square feet) near the former sodium dichromate storage tank and acid french drain outside of building 185-D. The area contained stained soil with an elevated concentration of hexavalent chromium.	Soil and debris	Inorganic chemicals	$120,159

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Operable Unit	Site Name	Current Site Knowledge	Material/ Media	Known or Potential Contamination	Estimated or Actual Cost of Site Remediation
100-FR-1	100-F-58, 100-F Surface Debris Potentially Containing Asbestos	This site contains potential asbestos-contaminated waste that was collected from several locations in the 100-F Area where it had been discarded or abandoned.	Soil and debris	Inorganic chemicals, asbestos	$120,159
100-FR-1	100-F-60, 100F Cast Iron Pipe	This feature is a 10 cm (4 in) diameter cast iron pipe approximately 1.2 m (4 ft) below the ground surface.	Soil and debris	Inorganic chemicals	$120,159
100-FR-1	100-F-61, Stained Soil near 100-F-12	An area of stained soil was discovered in 2004 while excavating the 100-F-12 french drain during confirmatory sampling. Laboratory analysis of a sample of the stained soil (J01XV2) indicated the presence of several constituents above remedial action goals.	Soil	Inorganic and organic chemicals	$120,159
100-FR-1	100-F-62, Animal Farm Septic Lines	The site includes effluent pipelines at two locations in the 100-F Experimental Animal Farm (EAF). One location is the effluent piping from the 141-M Building to the 1607-F7 septic tank and drain field. The other location is the effluent piping from the 144-F Building to the 100-F-31 septic tank and drain field.	Soil and debris	Inorganic and organic chemicals	$120,159
100-FR-1	100-F-63, Animal Farm Radioactive Effluent Lines	The site includes radioactive effluent piping and process sewers at the north end of the Experimental Animal Farm (EAF).	Soil and debris	Inorganic chemicals, radiological	$120,159
100-HR-2	100-H-58, Mud Dauber Nests on Active Power Lines in H Area	Radiological contaminated mud dauber nests identified along H Avenue, Herron Avenue, and from the west of the 105-H Reactor Building to the warehouse.	Debris	Radiological	$120,159

Table 1. Sites Added to 100 Area Remaining Sites ROD

Operable Unit	Site Name	Current Site Knowledge	Material/ Media	Known or Potential Contamination	Estimated or Actual Cost of Site Remediation
100-KR-1	100-K-080, 100K River Effluent Pipeline, 100K River Line, 116-K-3 Outfall Structure, 1908 K Outfall	This site is one of two adjacent, 213 centimeters (84 inches) diameter, carbon steel river effluent pipelines that extend 400 meters (1313 feet) from the face of 116-K-3 outfall structure into the main channel of the Columbia River (extending approximately 76 meters (250 feet) beyond the river shoreline). 105-KW reactor cooling water was collected and temporarily stored in the107-KW Retention Basins. The cooling water was discharged to the river, bypassing (underneath) the 116-K-3 (1908-K) outfall structure, through the 100-K-80 river pipeline. Process sewer waste, from both 100-KE and 100-KW facilities, entered the outfall structure and dropped into the 100-KE river pipeline (see 100-K-96) through large-diameter, vertical standpipes welded onto the pipelines.	Soil and Debris	Radionuclides and Metals	$753,021
100-KR-1	100-K-93, Drum	The site consists of a 208 L (55 gal) drum remnant with approximately 0.03 m^3 (1 ft^3) of solidified gray/black tar like substance and potentially contaminated underlying soil.	Soil and debris	Inorganic chemicals	$120,159

Table 1. Sites Added to 100 Area Remaining Sites ROD

Operable Unit	Site Name	Current Site Knowledge	Material/ Media	Known or Potential Contamination	Estimated or Actual Cost of Site Remediation
100-KR-2	100-K-061, 117-KW Filter Building	Included in this site are the 117 KW Building, the intake ventilation duct from the 105 KW Reactor Building, and the exhaust ventilation ducts to the 116 KW Reactor Exhaust Stack. The building and duct work are all made of reinforced concrete. The building is 12.2 meters (40 feet) high with 2.4 meters (8 feet) above grade. A soil berm is built up around the building from grade level to the top of the structure. The hatch on the top of the above ground portion of the filter structure is posted as Contamination Area and Danger Restricted Area, Multiple Hazards.	Soil and Debris	Radionuclides and Metals	$154,376
100-KR-2	100-K-062, 117-KE Filter Building	Included in this site are the 117 KE Building, the intake ventilation duct from the 105 KE Reactor Building, and the exhaust ventilation ducts to the 116 KE Reactor Exhaust Stack. Most of the filter structures are below grade. The building and duct work are all made of reinforced concrete. The building is 12.2 meters (40 feet) high with 2.4 meters (8 feet) above grade. The above ground portion of the filter structure is a soil berm built up around the building from grade level to the top of the structure. There is an entry hatch on the top of the berm that is posted as Contamination Area and Danger Restricted Area, Multiple Hazards.	Soil and Debris	Radionuclides and Metals	$154,376

Table 1. Sites Added to 100 Area Remaining Sites ROD

Operable Unit	Site Name	Current Site Knowledge	Material/ Media	Known or Potential Contamination	Estimated or Actual Cost of Site Remediation
100-KR-2	100-K-066, 165-KW Power Control Building	The 165 KW building is located between the 183 KW Water Treatment Plant and the 105 KW Reactor Building. The 190 KW Main Pumphouse directly adjoins the south side of the 165 KW Power Control Building.	Soil and Debris	Radionuclides and Metals	$157,827
100-KR-2	100-K-067, 165-KE Power Control Building	The 165 KE building is located between the 183 KE Water Treatment Plant and the 105 KE Reactor Building. The 190 KE Main Pumphouse directly adjoins the south side of the 165 KE Power Control Building.	Soil and Debris	Radionuclides and Metals	$157,827
100-KR-2	100-K-87, 100-K Asbestos	The site consists of a 0.6 m (2 ft) segment of suspected friable asbestos pipe lagging and any soil contaminated by the asbestos.	Soil and debris	Asbestos	$120,159
100-KR-2	100-K-91, Battery	The site consists of one intact, partially buried vehicle battery and the underlying soil. The surrounding vegetation appears to be unaffected by its presence.	Soil and debris	Inorganic chemicals	$120,159
100-KR-2	100-K-95, 100-K Tar Dump	This location is a large area approximately 150 m (500 ft) in diameter with tar dumps scattered throughout and potentially contaminated underlying soil.	Soil and debris	Inorganic chemicals	$120,159
100-KR-2	100-K-097, 183-KW French Drain and Rail Spur Unplanned Release	The site consists of a french drain that was used to collect drainage from the chromate system transfer hose after unloading the railcar. It also includes an unplanned release along the railroad tracks on the Head House rail spur. Sample results indicate chrome above the remedial action goals.	Soil and Debris	Radionuclides and Metals	$165,885
100-KR-2	100-K-098, 183-KE French Drain and Rail Spur Unplanned Release	The site consists of a french drain that was used to collect drainage from the chromate system transfer hose after unloading the railcar. It also includes an unplanned release along the railroad tracks on the Head House rail spur. Surface samples indicate chrome above the remedial action goals.	Soil and Debris	Radionuclides and Metals	$165,885

Table 1. Sites Added to 100 Area Remaining Sites ROD

Operable Unit	Site Name	Current Site Knowledge	Material/ Media	Known or Potential Contamination	Estimated or Actual Cost of Site Remediation
100-KR-2	100-K-099, Radioactive Material Area Remaining After 107-KE Basin Removal, 116-KE-4 Contaminated Soil and Items	Some radioactively contaminated soil and material were found adjacent to the area where the 107-KE basin (116-KE-4) were removed. Since the basin removal at 107-KW (116-KW-3) was an identical activity, the potential exists for contaminated soil and material to also be found adjacent to this excavation area. (See sitecode 100-K-99)	Soil and Debris	Radionuclides and Metals	$154,696
100-KR-2	100-K-100, Radioactive Material Area Remaining After 107-KW Basin Removal, 116-KW-3 Remaining Contaminated Soil and Items	Some radioactively contaminated soil and material were found adjacent to the area where the 107-KE basin (116-KE-4) were removed. Since the basin removal at 107-KW (116-KW-3) was an identical activity, the potential exists for contaminated soil and material to also be found adjacent to this excavation area. (See sitecode 100-K-99)	Soil and Debris	Radionuclides and Metals	$154,696
100-KR-2	100-K-101, FDrains and Mercury Stained Soils near the 183KE Sedimentation Basin	The site consists of a french drain surrounded by mercury stained soil between the KE Sedimentation Basin and the headhouse near the Sedimentation Basin abutments. There is also a black hose acid delivery system.	Soil and Debris	Metals	$1,448,845
100-KR-2	100-K-102, French Drains and Mercury Stained Soils near the 183KW Sedimentation Basin	The site consists of a french drain surrounded by mercury stained soil between the KW Sedimentation Basin and the headhouse near the Sedimentation Basin abutments. There is also a black hose acid delivery system.	Soil and Debris	Metals	$1,448,845

Table 1. Sites Added to 100 Area Remaining Sites ROD

Operable Unit	Site Name	Current Site Knowledge	Material/ Media	Known or Potential Contamination	Estimated or Actual Cost of Site Remediation
100-KR-2	100-K-103, 1704-K and 1717-K Septic Systems, 1607-K4	This site consists of seven components of the 1717K Septic System that were not included in the closed out 1607-K4 waste site, including the original tile field, the replacement septic tank, one leaching trench and four distinct replacement tile fields, built in 1995.	Soil and Debris	Radionuclides and Metals	$192,117
100-KR-2	100-K-108, 1706-KER Septic System	The site consists of a septic tank, crib, and associated piping that received effluent from the hot maintenance shop in 1706 KER building. The septic tank has a 2271 liter (600 gallon.) capacity tank, measuring 1.37 meters (54 inches) diameter by 1.78 meters (70 inches) depth. It is asphalt coated and the pipeline has a minimum soil cover of 0.8 meters (2.5 feet).	Soil and Debris	Radionuclides and Metals	$523,057
100-KR-2	100-K-109, Unplanned Chemical Release near 183.1KW Head House, Yellow Stained Soil adjacent to 183.1KW Head House	The waste site is an area of yellow stained soil, from an unplanned release that is adjacent to the railroad track, south, southwest of the demolished 183.1KW head house. Sample results (B25LC1) show elevated levels above the remedial action goals.	Soil and Debris	Metals	$233,913
100-KR-2	118-KE-1, 105-KE Reactor Building	The unit consists of: 1) a reactor block, which includes the graphite moderator stack, biological and thermal shields, pressure tubes, and the safety and control systems; 2) the irradiated fuel storage basin; and 3) contaminated portions of the reactor building and remnant contaminated pipelines connected to the buildings and not removed through other remedial actions. The fuel storage basin is a separate site (100-K-42).	Soil and Debris	Radionuclides and Metals	$3,723,057

Table 1. Sites Added to 100 Area Remaining Sites ROD

Operable Unit	Site Name	Current Site Knowledge	Material/ Media	Known or Potential Contamination	Estimated or Actual Cost of Site Remediation
100-KR-2	118-KE-2, 105-KE Horizontal Control Rod Storage Cave	The site was constructed by pouring a concrete slab 18 meters (60 feet) long by 2.4 meters (8 feet) wide. Two sections of 61-centimeter (24-inch) pipe were cut in half lengthwise, laid open side down on the slab. Vertical concrete walls and steel doors were added to the ends of the pipe sections, with the walls forming a wing at each end. The pipe sections were then covered with 1.8 meters (6 feet) of clean fill material, forming a 12-meter (40-foot) long tunnel (Hale 1957a). The berm width after the fill material was added is approximately 8 meters (25 feet). The entire structure is above grade.	Soil and Debris	Radionuclides and Metals	$85,023
100-KR-2	118-KW-1, 105-KW Reactor Building	The unit consists of: 1) a reactor block, which includes the graphite moderator stack, biological and thermal shields, pressure tubes, and the safety and control systems; 2) the irradiated fuel storage basin; and 3) contaminated portions of the reactor building and remnant contaminated pipelines connected to the buildings and not removed through other remedial actions.	Soil and Debris	Radionuclides and Metals	$3,723,057

Table 1. Sites Added to 100 Area Remaining Sites ROD

Operable Unit	Site Name	Current Site Knowledge	Material/ Media	Known or Potential Contamination	Estimated or Actual Cost of Site Remediation
100-KR-2	118-KW-2, 105-KW Horizontal Control Rod Storage Cave	The cave was constructed by pouring a concrete slab 18.3 meters (60 feet) long by 2.4 meters (8 feet) wide. Two sections of 0.61-meter (24-inch) pipe were cut in half lengthwise and laid open side down, on the slab. Vertical concrete walls and steel doors were added to the ends of the pipe sections, with the walls forming a wing at each end. The pipe sections were then covered with 1.8 meters (6 feet) of clean fill material, forming a 12.2-meter (40-foot) long tunnel. The berm width after the fill material was added is about 7.6 meters (25 feet). The entire structure is above grade.	Soil and Debris	Radionuclides and Metals	$85,023
100-KR-2	130-KE-2, 166-KE Oil Storage Tank	The bunker is an underground, reinforced concrete structure. It has two compartments, each having a storage capacity of 3,033,629 liters (801,400 gallons). During Groundwater Well Drilling operations for well #199-K-186 (C7686) on 12/7/10 an oily substance was identified at 42.6 ft and suspected to be bunker oil that leaked from Bunker C. Further characterization is needed.	Soil and Debris	Metals, TPH and PCBs	$2,511,727
100-KR-2	130-KW-2, 166-KW Oil Storage Tank	The bunker is an underground, reinforced concrete structure. It has two compartments, each having a storage capacity of 3,033,629 liters (801,400 gallons). In 2008, characterization well C6453 was drilled approximately 30 meters (100 feet) southeast of the 130-KW-2 storage tank. A layer of diesel was found at a depth of 8.5 to 9.4 meters (28 to 31) feet below ground surface.	Soil and Debris	Metals, TPH and PCBs	$2,511,727

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Operable Unit	Site Name	Current Site Knowledge	Material/ Media	Known or Potential Contamination	Estimated or Actual Cost of Site Remediation
100-KR-2	132-KE-1, 116-KE Reactor Exhaust Stack	The original height of this unit was 91.5 meters (300 feet). The stack has since been demolished. However, below grade components require remediation.	Soil and Debris	Radionuclides and Metals	$197,631
100-KR-2	132-KW-1, 116-KW Reactor Exhaust Stack	The original height for this unit was 91.5 meters (300 feet). The current height is 53.4 meters (175 feet) above grade, and also contains below grade components requiring remediation.	Soil and Debris	Radionuclides and Metals	$197,631
100-IU-2	600-341, Inter Areas Battery Remnant Area #1	The site consists of four (4) areas of soil that contain dry cell battery remnants and/or battery debris.	Soil and debris	Inorganic and organic chemicals	$120,159
100-IU-2	600-342, Inter Areas Contaminated Clothing Area near Susie Junction*	The site consists of a 20 m (66 ft) diameter area that contained discarded radiological protective clothing. The area has been remediated and closed out under the interim action ROD	Debris	Radiological	$58,012
100-IU-2	600-343, Inter Areas Burn Site #1	This site consists of residual ash from burned material and dumped asphalt in an excavated trench.	Soil and debris	Inorganic and organic chemicals	$120,159
100-IU-2	600-344, Inter Areas Stain Area #1	This site consists of a stained area with metal pre-Hanford container lids.	Soil and debris	Inorganic and organic chemicals	$120,159
100-IU-2	600-345, 100-BC Vicinity Oil Stain and Filter Area	This site is a stained area with oil filters.	Soil and debris	Inorganic and organic chemicals	$120,159
100-IU-2	600-346, 100-BC Vicinity Ash and Debris Area	This site consists of several small fly ash dump areas with metal debris.	Soil and debris	Inorganic and organic chemicals	$120,159
100-IU-6	600-350, PNL Water Catchment Experiment	This site consists of two separate fenced areas containing linear soil mounds.	Soil and debris	Inorganic and organic chemicals	$120,159

* Site has been remediated and Interim Closed Out.

Table 2. Candidate Sites Added to 100 Area Remaining Sites ROD

Operable Unit	Site Name	Current Site Knowledge	Media/ Material	Known or Potential Contamination	Estimated Sampling Cost
100-DR-1	100-D-69, Sodium Dichromate Found Near Pacific Avenue and Paddock Street	The site is a stained foundation and soil potentially contaminated with sodium dichromate.	Soil and debris	Inorganic chemicals	$94,418
100-DR-1	100-D-101, Miscellaneous Structures, 108-D Acid Pit and Sump, 108-D Sodium Silicate Sump, 108-D Storage Tanks, 108-D Car Spot	The site is the former location of four chemical storage tanks, an acid neutralization pit/sump, a sodium silicate sump, two sets of pumps, and a railcar spot. All of these objects were located to the west of the 108-D building.	Soil and debris	Inorganic and organic chemicals	$94,418
100-DR-1	100-D-102, Suspect Effluent Leak Adjacent to 107-DR Basin	The site was an irregular shaped feature visible in a 1962 aerial photograph. The surface of the site has been re-graded many times and is no longer discernible from the surrounding area.	Soil	Inorganic chemicals, radiological	$94,418
100-DR-2	100-D-103, Suspected Trench and French Drain from 116-D-8 Cask Pad	The site was an irregular shaped feature visible in a December 1949 aerial photograph. The surface of the site has been re-graded many times and is no longer discernible from the surrounding area.	Soil	Inorganic chemicals, radiological	$94,418
100-HR-1	100-H-38, Possible Trenches and Pit Southwest of 105-H	The site, an area approximately 3 acres in size, is marked by ground scars resembling trenches and pits. The site is situated along a natural depression on the western boundary of the H Area perimeter fence.	Soil	Inorganic chemicals, radiological	$94,418

Table 2. Candidate Sites Added to 100 Area Remaining Sites ROD

Operable Unit	Site Name	Current Site Knowledge	Media/ Material	Known or Potential Contamination	Estimated Sampling Cost
100-HR-1	100-H-57, Water Tower Foundations at 100-H	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	Soil and debris	Inorganic and organic chemicals	$94,418
100-IU-6	600-349, Unexploded Ordnance (UXO) outside of 600-149	This site consists of potential Unexploded Ordnance (UXO) in an area bounded by the entire perimeter of the 600-149, Small Arms Range, Rifle and Pistol Range, 661 Complex, and 600-54 waste site extending from the perimeter as far as a fired rifle grenade could travel. The area with the highest potential to contain munitions and explosives of concern includes a portion of Gable Mountain south of Prid Canal.	Soil and debris	Inorganic and organic chemicals	$94,418
100-KR-1	100-K-094, 1702-KE and 1702-KW Guard House Dry Wells	There are two identical dry wells, one at the1702 KE guard house and one at the 1702 KW guard house. Each 76 centimeter (30 inch) dry well received drinking water through a 7.6 centimeter (3 inch) cast iron pipe that exited guard houses.	Soil and Debris	Radionuclides and Metals	$74,684.00
100-KR-2	100-K-84, Red Soil Found Southeast of 118-K-1	The site consists of five small areas of red stained soil. Some of the material appeared to have been crushed while other pieces looked like "slag." Similar piles of material have been found south of the 200 West Area, 100-BC Area, and Riverland (McGee Ranch) Area.	Soil and debris	Inorganic and organic chemicals	$94,418
100-KR-2	100-K-85, 100-K Temporary Constructio n Pit	The site is a large open pit estimated to be 30 m (98 ft) in diameter that appears in a historical photograph. It is believed to have supported construction operations. Currently all that exists at the site location is a flat grassy area.	Soil and debris	Inorganic and organic chemicals	$94,418

Table 2. Candidate Sites Added to 100 Area Remaining Sites ROD

Operable Unit	Site Name	Current Site Knowledge	Media/ Material	Known or Potential Contamination	Estimated Sampling Cost
100-KR-2	100-K-86, 100-K Stain Areas	This site is four areas with stained soil, surface debris and the potentially contaminated underlying soil.	Soil and debris	Inorganic and organic chemicals	$94,418
100-KR-2	100-K-88, Yellow Granular Material	The site consists of stained soil, scattered yellow granular material and the potentially contaminated underlying soil. There is no vegetation within the stained soil area.	Soil	Inorganic and organic chemicals	$94,418
100-KR-2	100-K-89, Burn Site	This site consists of burned debris (wood, metal and roofing material) and the potentially contaminated underlying soil.	Soil and debris	Inorganic and organic chemicals	$94,418
100-KR-2	100-K-90, White Granular Material	The site consists of white granular material and the potentially contaminated underlying soil. The vegetation at the site appears to be unaffected by the presence of the substance.	Soil	Inorganic and organic chemicals	$94,418
100-KR-2	100-K-92, Reddish Stained Gravels	The site is two areas of reddish crusted soil and the potentially contaminated underlying soil.	Soil	Inorganic and organic chemicals	$94,418
100-KR-2	100-K-104, 166-KE French Drain	A site visit in July 2008 could not visually identify the french drain. The drain was fed by approximately 30 meters (100 feet) of underground piping. This is considered to be an analogous site to the french drain at 166-KW (see 100-K-13).	Soil and Debris	Metals and PCBs	$74,684.00
100-KR-2	100-K-105, Pit at Southeast Corner of 100K	The pit cannot be visually identified at the present time. An open pit was clearly visible on historical photograph 3346 NEG, taken in April 1955. Later photographs do not show any evidence of the pit. It is presumed to have been backfilled prior to 1965. There are no facilities near the open pit. It is not known what the pit was used for.	Soil and Debris	Metals	$74,684.00

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Operable Unit	Site Name	Current Site Knowledge	Media/ Material	Known or Potential Contamination	Estimated Sampling Cost
100-KR-2	100-K-106, 182-K Fuel Oil Crib	The site is an underground, rock filled drainage crib next to the 182 K Building. The crib supported the 182-K midway pump station that contained three diesel powered pumps. Discharge to crib was via a 15 centimeter (6 inch) diameter crib drain, that exited the building in two locations. One exited on the north end of the building and entered the east end of crib. Upon entering the crib, the piping consists of a 6 inch diameter corrugated metal perforated pipe. The other source to the crib is through a floor drain that collected drainage from a fuel oil centrifuge and a refrigerated drinking fountain.	Soil and Debris	Metals and PCBs	$74,684.00
100-KR-2	100-K-107, 1706-KER Abandoned Drain Field	A fenced area 31 meters (102 feet) northwest of the northwest corner of the 1706KER building is assumed to be this abandoned drain field. This drain field supports the 1706KER building.	Soil and Debris	Radionuclides and Metals	$74,684.00
100-KR-2	1607-K4, 1607-K4 Septic Tank and Associated Drain Field, 124-K-2, 1607-K4 Sanitary Sewer System, 1607-K4 Septic Tank	This site is composed of a septic tank, two leaching trenches and associated piping. This site is in interim closed out status.	Soil and Debris	Radionuclides and Metals	$74,684.00