

Waste Information Data System
General Summary Report
December 2, 1991

SITE NAME: 116-B-15 [782]

ALIASES:

105-B Fuel Storage Basin Cleanout Percolation Pit [782];
105-B Fuel Storage Discharge Pond, 105-B Pond [800]

SITE TYPE: Pit [782]
WASTE CATEGORY: Nonhazardous/Nonradioactive [797]
WASTE TYPE: Liquid [782]

STATUS: Inactive [782] Post-1980 [782]
START DATE: November 1984 [797]
END DATE: December 1985 [797]

OPERABLE UNIT: 100-BC-1 [782]
O.U. CATEGORY: CERCLA Past Practice [782]

This site is included in the Tri-Party Agreement Action Plan [782]

HANFORD AREA: 100-B Area [782]
COORDINATES: N69134 W79930 [782]
LOCATION: ~500 ft east of the 105-B Reactor Building [782]

WASTE VOLUME RECEIVED: 567,750.00 liters [797]

SITE DIMENSIONS: Site Area: 5,000.00 square feet [782]
Length: 100.00 feet [800]
Width: 50.00 feet [800]
Depth: 6.00 feet [800]

SITE DESCRIPTION: The unit is an open, excavated pit, rectangular in shape. Soil excavated from the center was used as a berm around its perimeter [800].

ASSOCIATED STRUCTURES:
105-B Storage Basin [782]

WASTE TYPES AND AMOUNTS: The unit received processed water from the 205-B Fuel Storage Basin. During the cleaning of this basin, the radiologically contaminated shielding water was processed through a process system that utilized ion exchange columns [797]. Before discharging the water to the unit, composite samples were taken to ensure that radionuclide concentrations were below release criteria in Table II of DOE Order 5480.1. The unit was released using ARCL methodology [800]. No known chemical substances were present in the water; however, chemical analysis during that period was not a standard practice, and there is no evidence that it was performed [782].



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SITE NAME: 116-B-16 [786]

ALIASES:

111-B Fuel Examination Tank [786]

SITE TYPE: Storage Tank [787]
WASTE CATEGORY: Low-Level Waste [786]
WASTE TYPE: Liquid [787]

STATUS: Inactive [786] Pre-1980 [786]
END DATE: 1968 [786]

OPERABLE UNIT: 100-BC-1 □

This site is included in the Tri-Party Agreement Action Plan [786]

HANFORD AREA: 100-B Area [786]

COORDINATES: N68620 W80363 [786]

LOCATION: Below the northwest corner of the 111-B Metallurgical Examination Building floor, ~575 ft southeast of the 105-B Reactor Building and adjacent to 116-B-6A, within the 105 B/C Exclusion Area [786]

SITE DIMENSIONS: Site Area: 61.30 square feet [787]
Length: 10.67 feet [787]
Width: 5.75 feet [787]
Depth: 9.00 feet [787]

SITE DESCRIPTION: The unit is constructed of concrete. The floor, foundation, and tank are the only remaining portions of the 111-B [786]. It is not known if the tank was backfilled, but it is believed to have been filled with either sand or concrete prior to abandonment of the building [788].

ASSOCIATED STRUCTURES:

The 111-B Metallurgical Examination Building [786]

WASTE TYPES AND AMOUNTS: The unit is believed to have received wastes similar to those identified in the 116-B-6A (111-B Crib No. 1); i.e., radioactive waste from equipment decontamination, the 111-B Building, and liquid wastes from fuel element spacer decontamination [786].

COMMENTS: During the insite vitrification demonstration at the 116-B-6A, a barrier was placed between the crib and this unit to prevent vitrification of its contents [786].

ENVIRONMENTAL MONITORING: Health Physics performs monthly exclusion area surveys, which include all ground areas within the 105 B/C exclusion area [786].

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SURVEILLANCE INFORMATION [796]

SURVEY DATE: 8/91
SITE POSTING: Underground Radioactive Material

This unit is in compliance with the Environmental Compliance Manual.

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SITE NAME: 126-B-4 [758]

ALIASES:

B Area Brine and Salt Dilution Pits [758]

SITE TYPE: Brine Pit [758]

WASTE CATEGORY: Nonhazardous/Nonradioactive [758]

WASTE TYPE: Solid [758]

STATUS: Inactive [758] Pre-1980 [758]

OPERABLE UNIT: 100-BC-1 [758]

O.U. CATEGORY: CERCLA Past Practice [758]

This site is included in the Tri-Party Agreement Action Plan [758]

HANFORD AREA: 100-B Area [761]

COORDINATES: N70371 W81908 (northwest corner) [761]

LOCATION: North of 184-B and just south of the railroad tracks [761]

SITE DESCRIPTION: The salt-dissolving pit and brine pit were both below-grade concrete vaults with internal void spaces (brine pit 500 cu ft, dissolving pit 900 cu ft) [759]. Now the site is a cleared area and the surface is covered by cobble and coal ashes. Vegetation is annual weeds and cheatgrass. No evidence of the site remains on the surface [758].

CLEANUP ACTIONS: The site was demolished in situ March 1988. Both pits were sampled for radiation and EP toxic metals. Samples showed less than 1% NaCl concentration, and no reportable concentrations of heavy metals were found. The samples also showed no significant radiation above background. Northwest Environmental Services, Inc. removed all waste and salt cake from the pits and certified them clean before in situ demolition and final grading. The pits were partially backfilled with rubble and leveled to grade with clean fill [759].

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SITE NAME: 132-B-4 [660]

ALIASES:

117-B Filter Building [660]

SITE TYPE: Building [660]
WASTE CATEGORY: Low-Level Waste [660]
WASTE TYPE: Solid [660]

STATUS: Inactive [660] Pre-1980 [652]
START DATE: 1961 [652]
END DATE: 1968 [652]

OPERABLE UNIT: 100-BC-1 [660]
O.U. CATEGORY: CERCLA Past Practice [660]

This site is included in the Tri-Party Agreement Action Plan [660]

HANFORD AREA: 100-B Area [652]
COORDINATES: N68900 W80575 [652]
LOCATION: ~100 ft south of the 105-B Reactor Building [652]

GROUND ELEVATION: 456.00 feet above MSL [17]

SITE DIMENSIONS: Length: 59.00 feet [652]
Width: 39.00 feet [652]

SITE DESCRIPTION: The unit was a reinforced concrete structure, 35 ft high, and almost completely below grade. Approximately 8 ft was above grade with an earth and gunite berm. The maximum thickness of the walls and floors was 2 ft, with the majority being 1 ft thick or less. The ducts were made of reinforced concrete with a maximum wall thickness of 12 in. The inlet tunnel was ~110 ft long, and the exhaust tunnel was ~80 ft long [652]. The site now has the appearance of a gravel parking lot [660].

ASSOCIATED STRUCTURES:

The building received exhaust fan discharge through an inlet duct from the 105-B and discharged the filtered air through a discharge duct and out the 116-B stack [652].

WASTE TYPES AND AMOUNTS: Total radionuclide inventory in this unit is estimated to be 92 nCi. The radionuclides comprising this inventory are H-3, C-14, Cs-137, Sr-90, Pu-239/240. Of these radionuclides, Sr-90 is the most restrictive in the ARCL calculations. Co-60, Eu-152, -153, -155 were not identified in any of the samples analyzed [652].

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RELEASE POTENTIAL: The interior surfaces of the building were coated with polyvinyl (ply-on) to seal cracks and imperfections in the concrete [626].

CLEANUP ACTIONS: The site was decommissioned using ARCL methodology [657]. Demolition and final site grading were completed January 1988. The building and ducts were excavated and demolished in situ. The contaminated rubble was buried at least 1 m deep, except for rubble from the seal pits, which was buried under a minimum of 5 m of clean earth [660].

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SITE NAME: 116-C-6 [782]

ALIASES:

105-C Fuel Storage Basin Cleanout Percolation Pit [782]

SITE TYPE: Pit [782]

WASTE CATEGORY: Nonhazardous/Nonradioactive [797]

WASTE TYPE: Liquid [782]

STATUS: Inactive [782] Post-1980 [782]

START DATE: December 1984 [797]

END DATE: August 1985 [797]

OPERABLE UNIT: 100-BC-2 [782]

O.U. CATEGORY: CERCLA Past Practice [672]

This site is included in the Tri-Party Agreement Action Plan [782]

HANFORD AREA: 100-C Area [782]

COORDINATES: N67548 W79749 [782]

LOCATION: ~400 ft east of the 105-C Reactor Building [782]

WASTE VOLUME RECEIVED: 2,157,450.00 liters [797]

SITE DIMENSIONS: Site Area: 7,250.00 square feet [782]

Depth: 6.00 feet [804]

SITE DESCRIPTION: The unit is an L-shaped, open excavated pit. Soil was excavated from the center and used as a berm around its perimeter. The approximate side lengths are 100 ft by 100 ft by 45 ft by 50 ft by 55 ft by 50 ft [804].

ASSOCIATED STRUCTURES:

105-C Fuel Storage Basin [782]

WASTE TYPES AND AMOUNTS: This unit received processed water from the 105-C Fuel Storage Basin Cleanout. During this effort, the radiologically contaminated shielding water in the basin was processed through a process system that utilized ion exchange columns [797]. Before discharging the water to the unit, composite samples were taken to ensure that radionuclide concentrations were below release criteria in Table II of DOE Order 5480.1 [804]. No known hazardous substances were present in the water; however, chemical analysis during that period was not a standard practice, and there is no evidence that it was performed [782].

CLEANUP ACTIONS: The unit was released using ARCL methodology [804].

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SITE NAME: 132-C-3 [659]
ALIASES:
117-C Filter Building [659]

SITE TYPE: Building [659]
WASTE CATEGORY: Low-Level Waste [659]
WASTE TYPE: Solid [659]

STATUS: Inactive [659] Pre-1980 [653]
START DATE: 1961 [653]
END DATE: 1969 [653]

OPERABLE UNIT: 100-BC-2 [659]
O.U. CATEGORY: CERCLA Past Practice [659]

This site is included in the Tri-Party Agreement Action Plan [659]

HANFORD AREA: 100-C Area [653]
COORDINATES: N67240 W80280 (southwest corner) [653]
LOCATION: ~50 ft southeast of the 105-C Reactor Building [653]

GROUND ELEVATION: 479.00 feet above MSL [17]

SITE DIMENSIONS: Length: 59.00 feet [653]
Width: 39.00 feet [653]

SITE DESCRIPTION: The unit was a reinforced concrete structure, 35 ft high, and almost completely below grade. Approximately 8 ft was above grade. The maximum thickness of the walls and floors was 2 ft, with the majority being 1 ft thick or less. The ducts were made of reinforced concrete with a maximum wall thickness of 12 in. The inlet tunnel was ~40 ft long, and the exhaust tunnel was ~60 ft long [653]. The site now resembles a gravel parking lot [659].

ASSOCIATED STRUCTURES:

The building received exhaust fan discharge through an inlet duct from the 105-C and discharged the filtered air through a discharge duct and out the 116-C stack [653].

WASTE TYPES AND AMOUNTS: Total radionuclide inventory in this unit is estimated to be 0.84 mCi. The radionuclides comprising this inventory are H-3, C-14, Co-60, Cs-137, Sr-90, Eu-154, Eu-152, and Pu-239/240. Of these radionuclides, Sr-90 is the most restrictive in the ARCL calculations [653].

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SITE NAME: 116-D-10 [7831]

ALIASES:

105-D Fuel Storage Basin Cleanout Percolation Pit [7831];
105-D Fuel Storage Discharge Ponds, 105-D Ponds [7841]

SITE TYPE: Pit [7831]
WASTE CATEGORY: Nonhazardous/Nonradioactive [7971]
WASTE TYPE: Liquid [7831]

STATUS: Inactive [7831] Post-1980 [7831]
START DATE: July 1984 [7971]
END DATE: September 1984 [7971]

OPERABLE UNIT: 100-DR-1 [7831]
O.U. CATEGORY: RCRA Past Practice [7831]

This site is included in the Tri-Party Agreement Action Plan [7831]

HANFORD AREA: 100-D Area [7831]

COORDINATES: N92325 W52225 [7831]

LOCATION: ~150 m east of the 105-D Reactor Building and just outside of the HPS
AC-5-40 permanent markers [7831]

WASTE VOLUME RECEIVED: 2,346,700.00 liters [7971]

SITE DESCRIPTION: The unit consists of two open excavated pits with a crossover channel connecting them. The west excavation was 35 ft long, 22 ft wide, and 3 ft deep. The east excavation was 50 ft long, 24 ft wide, and 4 ft deep [7841]. Both pits have been backfilled and graded to resemble the natural terrain [7831].

ASSOCIATED STRUCTURES:

105-D Fuel Storage Basin [7831]

WASTE TYPES AND AMOUNTS: The unit received processed water from the 105-D Fuel Storage Basin. During the cleanout of this basin, the radiologically contaminated shielding water was processed through a process system using ion exchange columns [797]. Before discharging the water to the unit, composite samples were taken to ensure that radionuclide concentrations were below release criteria in Table II of DOE Order 5480.1 [784]. No known hazardous substances were present in the water; however, chemical analysis was not a standard practice during that period, and there is no evidence that one was performed. It should be noted that water removed from the 1608-D is believed to be comparable to the storage basin water, and EP-TOX testing results for the 1608-D water were negative [783].

KNOWN RELEASES: On August 27, 1984, there was a process equipment failure which introduced very fine particles of sludge into the processed water holdup tanks. When the "clean water," verified by radiochemical and isotopic analysis, from the holdup tanks was discharged, the fine sludge particles were also discharged thus significantly increasing the amount of radioactive material in the soil [784].

CLEANUP ACTIONS: Six dumptruck loads totalling 1,000 cu ft of contaminated soil were removed from the unit. After removal of the contaminated soil, a detailed survey, using standard Hanford beta-gamma detection instruments was performed. Soil samples were also collected. Based on these results, the unit was released and backfilled to grade with 3 to 4 ft of clean soil [784].

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SITE NAME: 126-D-2 [333]

ALIASES:

184-D Coal Pit [333]

SITE TYPE: Demolition and Inert Landfill [640]

WASTE CATEGORY: Nonhazardous/Nonradioactive [640]

WASTE TYPE: Solid [640]

STATUS: Inactive [640]

START DATE: 1970's [640]

END DATE: 1986 [640]

OPERABLE UNIT: 100-DR-1 [640]

O.U. CATEGORY: RCRA Past Practice [640]

This site is included in the Tri-Party Agreement Action Plan [640]

HANFORD AREA: 100-D Area [640]

COORDINATES: N93250 W54375 (center) [640]

LOCATION: Just west of the site of the 184-D Power House (demolished) and ~300 ft north of the 183-D Water Treatment Facility, ~1,800 ft northwest of the 105-D Reactor Building [640]

SITE DESCRIPTION: The unit is an excavated pit originally used to store coal for the powerhouse. This unit is full. It is covered with ~1 ft of pit run backfill material and graded to conform with the natural terrain [640].

ASSOCIATED STRUCTURES:

Associated with the 184-D Power House [640].

WASTE TYPES AND AMOUNTS: The unit contains demolition and inert waste from demolished facilities in and around 100-D. These include such facilities as: 184-D (including stacks), 108-D, released portions of the 115-D/DR, 186-D, etc. Of all the demolition and inert waste landfills in the areas, this one has the highest potential of containing hazardous waste. It was active for many years and was known to have received waste from 100-N as well as the maintenance facility at 189-D [640].

CLEANUP ACTIONS: In 1983 and 1984, paint cans (both spray and buckets), drums, and various types of garbage were found and removed from this landfill. At that time, ~80% of the landfill was full and covered with backfill [640]

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SITE NAME: 132-D-1 [687]

ALIASES:

115-D/DR Gas Recirculating Facility [687]

SITE TYPE: Building [687]
WASTE CATEGORY: Low-Level Waste [687]
WASTE TYPE: Solid [687]

STATUS: Inactive [686] Pre-1980 [686]
START DATE: 1944 [686]
END DATE: 1967 [686]

OPERABLE UNIT: 100-DR-1 [687]
O.U. CATEGORY: RCRA Past Practice [624]

This site is included in the Tri-Party Agreement Action Plan [687]

HANFORD AREA: 100-D Area [686]

COORDINATES: N92012 W52727 [686]

LOCATION: ~150 ft south of the 105-D Reactor Building [686]

GROUND ELEVATION: 470.00 feet above MSL [17]

WATER TABLE DEPTH: 388.00 feet below grade [17]

SITE DIMENSIONS: Length: 168.00 feet [686]
Width: 98.00 feet [686]
Depth: 11.00 feet [686]

SITE DESCRIPTION: The unit consisted of the building, the vacuum and pressure seal pit, and tunnels. The building was a single-story, reinforced concrete structure, 20 ft high, with a basement. At ground level, an operating gallery ran the length of the building and was flanked on either side by cells that contained the gas processing equipment. The cells, including walls, ceilings and floors, were constructed of reinforced concrete slabs with composition surfaces. At right angles to the operating gallery and extending across the full width of the building's end, the fan room was constructed of concrete block and contained the ventilation fan, air compressor, office, locker room, etc. At each end of the basement, a tunnel containing the gas recirculating piping lead to the reactors. The tunnel to 105-D was 12 ft wide by 6.5 ft high. The tunnel to 105-DR was 5 ft wide. Connected to and part of the 105-D tunnel was the vacuum and pressure seal pit. Also, the tunnel formed part of the 1608-D Lift Station [686]. Presently, the site looks like a gravel parking lot and is free of any debris [687].

ASSOCIATED STRUCTURES:

The building housed the gas dryers, injection and circulation equipment for the recirculating gas system for both the 105-D and 105-DR reactors [686].

WASTE TYPES AND AMOUNTS: The resident radionuclides are tritium, C-14, Co-60, Sr-90, Cs-137, Eu-152, and Pu-239 [686].

COMMENTS: The facility was built in 1943 with equipment for 105-D Reactor. The equipment for 105-DR Reactor was added in 1947 and placed in operation in 1950 [686].

CLEANUP ACTIONS: The building and adjoining tunnels were decommissioned in situ in 1985 and 1986, using ARCL methodology. The at- and below-grade structures (floor slab, walls, footing pedestals, tunnel roof and walls, pipes and other structures) were exposed by excavating and demolishing to at least 1 m below grade. The resulting rubble was placed in the basement and tunnels for in situ disposal [686].

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SITE NAME: 132-D-2 [690]

ALIASES:

117-D Filter Building [690]

SITE TYPE: Building [690]
WASTE CATEGORY: Low-Level Waste [690]
WASTE TYPE: Solid [690]

STATUS: Inactive [688] Pre-1980 [688]
START DATE: 1961 [688]
END DATE: 1967 [688]

OPERABLE UNIT: 100-DR-1 [690]
O. U. CATEGORY: RCRA Past Practice [624]

This site is included in the Tri-Party Agreement Action Plan [690]

HANFORD AREA: 100-D Area [688]
COORDINATES: N92005 W52856 (northeast corner) [688]
LOCATION: -100 ft south of 105-D Reactor Building [688]

GROUND ELEVATION: 460.00 feet above MSL [17]
WATER TABLE DEPTH: 388.00 feet below grade [17]

SITE DIMENSIONS: Length: 59.00 feet [688]
Width: 39.00 feet [688]

SITE DESCRIPTION: The unit was a reinforced concrete structure, 35 ft high, and almost completely below grade. About 8 ft was above grade. The maximum thickness of the walls and floors was 2 ft, with the majority 1 ft thick or less. The ducts were made of reinforced concrete with a maximum wall thickness of 12 in. The inlet duct was 115 ft long, and the exhaust duct was 92 ft long [688]. The site now resembles a gravel parking lot [690].

ASSOCIATED STRUCTURES:

The unit received exhaust fan discharge through an inlet duct from the 105-D and discharged the filtered air through a discharge duct and out the 116-D stack [688].

WASTE TYPES AND AMOUNTS: Total radionuclide inventory in the 117-D building was estimated to be 3.9E-3 Ci. The radionuclides comprising this figure are H-3, C-14, Co-60, Sr-90, CS-137, Eu-152, and Pu-239 [688].

SITE NAME: 132-D-2

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CLEANUP ACTIONS: The site was decommissioned using ARCL methodology. The demolition and site grading were performed in January and February 1986. The building and ducts were excavated and demolished in situ. The contaminated rubble was buried at least 1 m deep, except for rubble from the seal pits, which was buried under a minimum of 5 m of clean earth [688].

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SITE NAME: 126-DR-1 [333]

ALIASES:

190-CR Clearwell Tank Pit [333]

SITE TYPE: Demolition and Inert Landfill [333]

WASTE CATEGORY: Nonhazardous/Nonradioactive [641]

WASTE TYPE: Solid [641]

STATUS: Active [641]

START DATE: 1970's [641]

OPERABLE UNIT: 100-DR-2 [641]

O.U. CATEGORY: RCRA Past Practice [641]

This site is included in the Tri-Party Agreement Action Plan [641]

HANFORD AREA: 100-DR Area [641]

COORDINATES: N90875 W53900 (center) [641]

LOCATION: Directly east of the site of the 183-DR Water Treatment Facility (demolished) and ~1,200 ft west southwest of the 105-DR Reactor Building [641]

SITE DIMENSIONS: Length: 42.00 feet [641]

Width: 525.00 feet [641]

SITE DESCRIPTION: The unit is an excavated area between the 183-DR and 190-DR that contained four 3,750,000-gal steel water storage tanks. The four tanks were removed. Approximately 25% of the bottom surface area contains a layer of waste ~5 to 10 ft deep that is covered with pit run backfill and located in the northwest sector of the pit. The southern sector is posted as an asbestos area [641].

ASSOCIATED STRUCTURES:

Associated with the 183-DR Water Treatment Facility and the 190-DR Main Pump House. Both of these facilities were involved in providing primary coolant water for DR-reactor [641].

WASTE TYPES AND AMOUNTS: The unit contains demolition and inert waste from demolished facilities, including rubble from released portions of the 115-D/DR, and some rubble from 183-DR. In 1989, small amounts of friable asbestos were found scattered throughout the southern sector. The asbestos is believed to be the result of salvage operations during the 1970's. This site may contain chromates in both the soil and underground piping as a result of its association with water treatment. Because of this potential, it is closed to waste disposal [641].

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SITE NAME: 116-DR-10 [783]

ALIASES:

105-DR Fuel Storage Basin Cleanout Percolation [783];
105-DR Fuel Storage Discharge Pond, 105-DR Pond [785]

SITE TYPE: Pit [783]
WASTE CATEGORY: Nonhazardous/Nonradioactive [783]
WASTE TYPE: Liquid [783]

STATUS: Inactive [785] Post-1980 [783]
START DATE: October 1984 [797]
END DATE: November 1984 [797]

OPERABLE UNIT: 100-DR-3 [783]
O.U. CATEGORY: Undefined [783]

This site is included in the Tri-Party Agreement Action Plan [783]

HANFORD AREA: 100-DR Area [783]

COORDINATES: N91075 W52200 [783]

LOCATION: ~150 m east and slightly south of the 105-DR Reactory Building, just outside the HPS AC-5-40 permanent markers [783]

WASTE VOLUME RECEIVED: 908,400.00 liters [797]

SITE DIMENSIONS: Site Area: 4,000.00 square feet [783]
Length: 80.00 feet [785]
Width: 50.00 feet [785]
Depth: 6.00 feet [785]

SITE DESCRIPTION: The unit is an open excavated pit located in a natural depression. The excavation has been backfilled and graded to match the natural terrain. The original natural depression remains [783].

ASSOCIATED STRUCTURES:

105-DR Fuel Storage Basin [783]

WASTE TYPES AND AMOUNTS: The unit received processed water from the 105-DR Fuel Storage Basin. During the cleanout of this basin, the radiologically contaminated shielding water was processed through a process system using ion exchange columns [797]. Before discharging the water to the unit, composite samples were taken to ensure that radionuclide concentrations were below release criteria in Table II of DOE Order 5480.1. Although the water was cleaned to applicable release limits, minute quantities (below release limits) of radionuclides remaining in the water accumulated in the soil at some low points of the floor [785]. No known hazardous substances were present in the water; however, chemical analysis was not a standard practice during that period, and there is no evidence that one was performed. It should be noted that water removed from the 1608-DR is believed to be comparable to the storage basin water, and EP-TOX testing results for the 1608-DR water were negative [783].

CLEANUP ACTIONS: The contaminated soil was removed, and the site was released using ARCL methodology [785]. The unit was backfilled and graded to match the natural terrain [783].

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SITE NAME: 116-F-15 [790]
ALIASES:
108-F Radiation Crib [790]

SITE TYPE: Crib [790]
WASTE CATEGORY: Low-Level Waste [790]
WASTE TYPE: Liquid [790]
STATUS: Inactive [790]
OPERABLE UNIT: 100-FR-1 [790]
O.U. CATEGORY: CERCLA Past Practice [790]

This site is included in the Tri-Party Agreement Action Plan [790]

HANFORD AREA: 100-F Area [790]
COORDINATES: N79125 W30375 [790]
LOCATION: Under the 108-F Building [790]

SITE DESCRIPTION: The size and design of the unit is unknown. The floor opening is covered with plywood to restrict access. A 20-ft by 18-in. trench is present and appears to slope down into the unit. The trench is covered with plywood and posted as radioactive [790].

ASSOCIATED STRUCTURES:
108-F glove box ventilation hoods and drains [790]

WASTE TYPES AND AMOUNTS: The unit has not been sampled for radiological or chemical contaminations. It is known that alpha contamination experiments were conducted in the 108-F Building [790].

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SITE NAME: 116-F-16 [790]

ALIASES:

PNL Outfall [790]

SITE TYPE: Outfall Structure [790]

WASTE CATEGORY: Mixed Waste [790]

WASTE TYPE: Liquid [790]

STATUS: Inactive [790]

OPERABLE UNIT: 100-FR-1 [790]

O.U. CATEGORY: CERCLA Past Practice [790]

This site is included in the Tri-Party Agreement Action Plan [790]

HANFORD AREA: 100-F Area [790]

LOCATION: Upstream of 116-F-8 [790]

SITE DESCRIPTION: A pipe discharged into a concrete spillway, which extends into the river. The spillway is an 8- to 10-ft-wide concrete structure that extends ~20 ft out from the shoreline and ~12 ft into the Columbia River. The sides are 18 in. high and extend down the length of the structure [790].

ASSOCIATED STRUCTURES:

The unit was the discharge from the PNL Experimental Farm Building [790].

WASTE TYPES AND AMOUNTS: The unit received animal sewage, 107-F Retention Basin water, and low-level contamination from the farm projects. The 107-F Retention Basin water was used in animal experiments at the farm project [790].

CLEANUP ACTIONS: The majority of the unit has been backfilled; only a small portion near the shoreline is visible [790].

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SITE NAME: 132-F-3 [658]

ALIASES:

115-F Gas Recirculating Facility [658]

SITE TYPE: Building [658]

WASTE CATEGORY: Low-Level Waste [658]

WASTE TYPE: Solid [658]

STATUS: Inactive [658] Pre-1980 [654]

START DATE: 1943 [654]

END DATE: 1956 [654]

OPERABLE UNIT: 100-FR-1 [658]

O.U. CATEGORY: CERCLA Past Practice [658]

This site is included in the Tri-Party Agreement Action Plan [658]

HANFORD AREA: 100-F Area [654]

LOCATION: ~200 ft due west of 105-F Building [654]

SITE DIMENSIONS: Length: 168.00 feet [654]

Width: 98.00 feet [654]

Depth: 11.00 feet [658]

SITE DESCRIPTION: This unit was a single-story, reinforced concrete structure, 20 ft high. An operating gallery extended down the center and was flanked on either side by cells that contained the gas processing equipment. The equipment cell walls and floors were 3 ft thick. At right angles to the operating gallery and extending across the full width of the west end was the service section, which contained the ventilation fan, air compressor, office, locker room, etc. A pipe tunnel 36 ft wide by 8 ft high ran beneath the full length of the building. The main gas lines to and from the 105-F Building entered through this tunnel [654]. At present, the site looks like a gravel parking lot that is free of any debris [658].

WASTE TYPES AND AMOUNTS: The resident radionuclides are H-3, C-14, Co-60, Sr-90, Cs-137 [655].

CLEANUP ACTIONS: The building was demolished in situ using ARCL methodology [655]. The demolition was started and completed during the last quarter of FY84. The above-ground debris and rubble were trucked to the 100-F clearwell for disposal. The below-grade perimeter walls, which extended 13 ft below grade, were demolished to 3 to 4 ft below grade. The remaining walls were left intact and served as containment for the building rubble. The entire area was covered with clean backfill material. This overburden averaged 4 to 5 ft in depth, which exceeded the ARCL requirements of 1 m of clean fill. In addition, grading the final site to be compatible with the surrounding terrain added another 3 to 4 ft of clean backfill [654].

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Waste Information Data System
General Summary Report
December 2, 1991

SITE NAME: 120-F-1 [638]

ALIASES:

Glass Dump [638]

SITE TYPE: Trench [638]
WASTE CATEGORY: Hazardous Waste [638]
WASTE TYPE: Solid [638]

STATUS: Inactive [638]

OPERABLE UNIT: 100-FR-2 [638]
O.U. CATEGORY: Undefined [638]

This site is included in the Tri-Party Agreement Action Plan [638]

HANFORD AREA: 100-F Area [638]
LOCATION: 210 yards south of 128-F-1 [638]

SITE DIMENSIONS: Length: 30.00 feet [638]
Width: 8.00 feet [638]
Depth: 4.00 feet [638]

SITE DESCRIPTION: The site was cut into the ground with the front blade of a bulldozer, pushing all the dirt to the west end of the unit. The original access road is overgrown with 3-ft-high sagebrush, indicating this site has not been used for many years [638].

WASTE TYPES AND AMOUNTS: The site is covered with ~2 ft of florescent tubes; incandescent light bulbs; instrument vacuum tubes; and small AAA, C, and D batteries. The site also contains an assortment of chemical bottles, both large and small [638].

Waste Information Data System
General Summary Report
December 2, 1991

SITE NAME: 132-H-2 [698]
ALIASES:
117-H Filter Building [698]

SITE TYPE: Building [698]
WASTE CATEGORY: Low-Level Waste [698]
WASTE TYPE: Solid [698]
STATUS: Inactive [17] Pre-1980 [17]
START DATE: 1961 [17]
END DATE: 1965 [17]

OPERABLE UNIT: 100-HR-2 [698]
O. U. CATEGORY: RCRA Past Practice [624]

This site is included in the Tri-Party Agreement Action Plan [698]

HANFORD AREA: 100-H Area [699]
COORDINATES: N95400 W39600 [17]
LOCATION: ~80 ft southwest of the 105-H Reactor Building [699]

GROUND ELEVATION: 422.00 feet above MSL [17]
WATER TABLE DEPTH: 378.00 feet below grade [17]

SITE DIMENSIONS: Length: 59.00 feet [699]
Width: 39.00 feet [699]

SITE DESCRIPTION: The unit was a reinforced concrete structure, 35 ft high and 90% below grade. The maximum thickness of the walls and floors was 2 ft, with the majority being 15 in. thick. The ducts were made in reinforced concrete with a maximum wall thickness of 18 in. The inlet duct was 76 ft long and the exhaust duct was 101 ft long [699]. The site now resembles a gravel parking lot [698].

ASSOCIATED STRUCTURES:

The building received exhaust fan discharge through an inlet duct from the 105-H and discharged the filtered air through a discharge duct and out the 116-H stack [699].

WASTE TYPES AND AMOUNTS: Total radionuclide inventory in the 117-H Building is estimated to be 0.41 mCi. The radionuclides comprising this figure are H-3, C-14, Co-60, Cs-137, Sr-90, Eu-154, Eu-152, and Pu-239/240. Of these radionuclides, Sr-90 is the most restrictive in the ARCL calculations [699].

SITE NAME: 132-H-2

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CLEANUP ACTIONS: The site was decommissioned using ARCL methodology. The demolition and site grading were performed in September and October 1984. The building and ducts were excavated and demolished in situ. The contaminated rubble was buried at least 1 m deep except for rubble from the seal pits, which was buried under a minimum of 5 m of clean earth [699].

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Waste Information Data System
General Summary Report
December 2, 1991

SITE NAME: 126-K-1 [333]
ALIASES:
100-K Gravel Pit [333]

SITE TYPE: Demolition and Inert Landfill [642]
WASTE CATEGORY: Nonhazardous/Nonradioactive [642]
WASTE TYPE: Solid [642]

STATUS: Active [642]
START DATE: 1970's [642]

OPERABLE UNIT: 100-KR-2 [642]
O.U. CATEGORY: CERCLA Past Practice [642]

This site is included in the Tri-Party Agreement Action Plan [642]

HANFORD AREA: 100-K Area [642]

COORDINATES: NK4250 WK3175 (southwest corner) [642]

LOCATION: The western perimeter is ~625 ft east of the 100-K area east perimeter fence and borders the eastern perimeter of the 118-K-1 burial ground [642]

SITE DESCRIPTION: This unit is a gravel borrow pit that resulted from 100-K Area construction. The slope of the southwest corner contains demolition waste. This area is covered with pit run backfill material. The bottom contains one ~5 ft layer of demolition and inert waste covered with ~1 ft of pit run backfill material. Approximately 80% of this unit is unused [642].

WASTE TYPES AND AMOUNTS: The unit contains demolition and inert waste from 100-K area, Near Surface Test Facility (NSTF) at Gable Mountain, and Exploratory Shaft (ES) site. Primarily, waste consists of concrete, wood, steel pipe, structural steel, conduit, and wire [642].

ENVIRONMENTAL MONITORING: The unit is monitored monthly by Environmental Protection surveillance. Inactive Facilities Surveillance & Maintenance (landlord) maintains a waste disposal log for this site [642].

Waste Information Data System
General Summary Report
December 2, 1991

SITE NAME: 128-B-2 [763]

ALIASES:

100-B Burn Pit #2

SITE TYPE: Burning Pit [763]
WASTE CATEGORY: Hazardous Waste [763]
WASTE TYPE: Solid [763]

STATUS: Inactive [763] Pre-1980 [763]
START DATE: 1948 [763]
END DATE: 1968 [763]

OPERABLE UNIT: 100-BC-1 [763]
O.U. CATEGORY: CERCLA Past Practice [763]

This site is included in the Tri-Party Agreement Action Plan [763]

HANFORD AREA: 600 Area [763]
COORDINATES: N71500 W76500 [763]
LOCATION: East of 100-B Area, on a dirt road that leads to the railroad tracks and the highway [763]

SITE DIMENSIONS: Site Area: 13,500.00 square feet [763]
Length: 450.00 feet [763]
Width: 30.00 feet [763]

SITE DESCRIPTION: The site width ranges from 30 to 50 ft and is identifiable by a pile of large boulders. There are sand-blasting garnet, old paint cans, and evidence of burning in the area [763].

WASTE TYPES AND AMOUNTS: The site received nonradioactive, combustible materials. Old paint cans and sandblast sand can still be seen at the site. Office waste, paint waste, chemicals, and solvent were burned at this site [763].

Waste Information Data System
General Summary Report
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SITE NAME: 1607-B10 [781]

SITE TYPE: Septic Tank [781]
WASTE CATEGORY: Nonhazardous/Nonradioactive [781]
WASTE TYPE: Liquid [781]

STATUS: Inactive [781]
START DATE: 1952 [781]

OPERABLE UNIT: 100-BC-2 [781]
O.U. CATEGORY: CERCLA Past Practice [781]

This site is included in the Tri-Party Agreement Action Plan [781]

HANFORD AREA: 100-C Area [781]

COORDINATES: N67303 W82384 [781]

LOCATION: ~33 ft south of the former site of the 183-C Head House and ~80 ft east of the centerline of the road that passes the 183-C Water Plant in a north/south direction [781]

SITE DESCRIPTION: The unit includes a drain field. It is enclosed with steel marker posts that are painted yellow and outline a 15- by 30-ft perimeter. "Septic Tank" and "Drain Field" labels are also present. A steel pipe riser 10 in. in diameter and 33 in. above grade also marks the location of the tank [781].

ASSOCIATED STRUCTURES:

183-C Head House. The head house was demolished and all that remains is the floor and foundation [781].

WASTE TYPES AND AMOUNTS: There were no known discharges of hazardous chemicals or radionuclides. The unit received only sanitary sewer wastes from the 183-C Water Treatment Plant [781].

Waste Information Data System
General Summary Report
December 2, 1991

SITE NAME: 1607-B11 [781]

SITE TYPE: Septic Tank [781]
WASTE CATEGORY: Nonhazardous/Nonradioactive [781]
WASTE TYPE: Liquid [781]

STATUS: Inactive [781]
START DATE: 1952 [781]

OPERABLE UNIT: 100-BC-2 [781]
P.O.U. CATEGORY: CERCLA Past Practice [781]

This site is included in the Tri-Party Agreement Action Plan [781]

HANFORD AREA: 100-C Area [781]

COORDINATES: N67628 W81668 [781]

LOCATION: ~40 ft north of the 183-C Filter Building and 50 ft west of the 183-C Filter Building entrance road [781]

SITE DESCRIPTION: The unit includes a drain field. It is enclosed with steel marker posts that are painted yellow and outline a 15- by 30-ft perimeter. "Septic Tank" and "Drain Field" labels are attached to the posts. A steel riser 10 in. in diameter and 18 in. above grade also marks the location of the tank [781].

ASSOCIATED STRUCTURES:
183-C Filter Building and Pump Room [781]

WASTE TYPES AND AMOUNTS: There were no known discharges of hazardous chemicals or radionuclides. The unit received only sanitary sewer wastes from the 183-C Water Treatment Plant [781].

Waste Information Data System
General Summary Report
December 2, 1991

SITE NAME: 126-D-2 [333]

ALIASES:

184-D Coal Pit [333]

SITE TYPE: Demolition and Inert Landfill [640]

WASTE CATEGORY: Nonhazardous/Nonradioactive [640]

WASTE TYPE: Solid [640]

STATUS: Inactive [640]

START DATE: 1970's [640]

END DATE: 1986 [640]

OPERABLE UNIT: 100-DR-1 [640]

OU CATEGORY: RCRA Past Practice [640]

This site is included in the Tri-Party Agreement Action Plan [640]

HANFORD AREA: 100-D Area [640]

COORDINATES: N93250 W54375 (center) [640]

LOCATION: Just west of the site of the 184-D Power House (demolished) and ~300 ft north of the 183-D Water Treatment Facility, ~1,800 ft northwest of the 105-D Reactor Building [640]

SITE DESCRIPTION: The unit is an excavated pit originally used to store coal for the powerhouse. This unit is full. It is covered with ~1 ft of pit run backfill material and graded to conform with the natural terrain [640].

ASSOCIATED STRUCTURES:

Associated with the 184-D Power House [640].

WASTE TYPES AND AMOUNTS: The unit contains demolition and inert waste from demolished facilities in and around 100-D. These include such facilities as: 184-D (including stacks), 108-D, released portions of the 115-D/DR, 186-D, etc. Of all the demolition and inert waste landfills in the areas, this one has the highest potential of containing hazardous waste. It was active for many years and was known to have received waste from 100-N as well as the maintenance facility at 189-D [640].

CLEANUP ACTIONS: In 1983 and 1984, paint cans (both spray and buckets), drums, and various types of garbage were found and removed from this landfill. At that time, ~80% of the landfill was full and covered with backfill [640]

Waste Information Data System
General Summary Report
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SITE NAME: 628-3 [789]

SITE TYPE: Burning Pit [789]
WASTE CATEGORY: Hazardous Waste [789]
WASTE TYPE: Solid [789]

STATUS: Inactive [789]

OPERABLE UNIT: 100-DR-1 [789]

-O.U. CATEGORY: RCRA Past Practice [789]

This site is included in the Tri-Party Agreement Action Plan [789]

HANFORD AREA: 600 Area [789]

COORDINATES: N93280 W49500 [789]

LOCATION: ~1,000 ft east of 128-D-2 and ~300 ft east of the D Area perimeter road [789]

-SITE DIMENSIONS: Site Area: 10,000.00 square feet [789]
Length: 250.00 feet [789]
Width: 40.00 feet [789]

SITE DESCRIPTION: The site is roughly oval. The center is distinguished by a 4-ft depression. The depression shows signs of severe plant stress and soil discoloration. The depression, as well as the area around it, is littered with debris. It appears that at one time cat tractors bulldozed some of the surrounding soil [789].

WASTE TYPES AND AMOUNTS: Debris, consisting mostly of burnt wood, nails, metal pites, rebar, and glass, is scattered over the area. In some spots, the site also contains what looks like asbestos, friable and nonfriable [789].

Waste Information Data System
General Summary Report
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SITE NAME: 126-F-2 [333]
ALIASES:
183-F Clearwells [333]

SITE TYPE: Demolition and Inert Landfill [333]
WASTE CATEGORY: Nonhazardous/Nonradioactive [766]
WASTE TYPE: Solid [766]

STATUS: Active [766]
START DATE: 1970s [766]

OPERABLE UNIT: 100-FR-1 [766]
O.U. CATEGORY: CERCLA Past Practice [766]

This site is included in the Tri-Party Agreement Action Plan [766]

HANFORD AREA: 100-F Area [766]

COORDINATES: N80475 W30850 [707]

LOCATION: ~ 1,400 ft north of the 105-F Reactor Building, at the site of the 183-F Water Treatment Facility (demolished) [707]

SITE DIMENSIONS: Site Area: 101,385.00 square feet [766]
Length: 751.00 feet [766]
Width: 135.00 feet [766]

SITE DESCRIPTION: The unit consists of covered, reinforced concrete basins, having a capacity of about 10M gal, separated in the center by a pump room. The pump room was reinforced concrete and largely below grade. The above-ground portion of the pump room has been demolished, and the below-ground portion has been filled with pump room rubble and backfill. Approximately 25% of the east clearwell basin contains waste. The west clearwell remains intact [766].

ASSOCIATED STRUCTURES:

The clearwells were associated with the 183-F Water Treatment Facility [766].

WASTE TYPES AND AMOUNTS: The unit now contains nonhazardous and nonradioactive demolition and inert waste from demolished facilities. This waste includes rubble from the released portion of 115-F as well as rubble from such noncontaminated facilities as 183-F, 190-F, 189-F, 185-F, 171-F [766].

COMMENTS: This unit is under the Hanford Surplus Facility Program [766].

SITE NAME: 126-F-2

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ENVIRONMENTAL MONITORING: The unit receives monthly Environmental Protection surveillance. Inactivities & Maintenance (landlord) maintains waste disposal logs [766].

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Waste Information Data System
General Summary Report
December 2, 1991

SITE NAME: 128-F-2 [764]

ALIASES:

100-F Burning Pit

SITE TYPE: Burning Pit [764]

WASTE CATEGORY: Hazardous Waste [764]

WASTE TYPE: Solid [764]

STATUS: Inactive [764]

OPERABLE UNIT: 100-FR-1 [764]

O.U. CATEGORY: CERCLA Past Practice [764]

This site is included in the Tri-Party Agreement Action Plan [764]

HANFORD AREA: 100-F Area [764]

COORDINATES: N80000 W28200 [764]

LOCATION: ~100 ft east of the northeast corner of the 100-F Area perimeter road along the riverbank, directly east of 107-F Retention Basin [764]

SITE DIMENSIONS: Site Area: 9,000.00 square feet [764]

Length: 150.00 feet [764]

Width: 60.00 feet [764]

SITE DESCRIPTION: The ground still shows signs of burning. Broken glass, cans, and ashes mark areas of the site. Smaller areas of surface burning are located close to the original burn pit [764].

WASTE TYPES AND AMOUNTS: Nonradioactive, combustible materials (vegetation, office waste, paint waste, and chemical solvents) have been burned at the site. There are also some large metal materials present, such as hardware, machinery, and other noncontaminated miscellaneous equipment [764].

Waste Information Data System
General Summary Report
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SITE NAME: 118-F-9 [790]

ALIASES:

PNL Rad Site [790]

SITE TYPE: Burial Ground [790]
WASTE CATEGORY: Low-Level Waste [790]
WASTE TYPE: Solid [790]

STATUS: Inactive [790]

OPERABLE UNIT: 100-FR-2 [790]
O.U. CATEGORY: Undefined [790]

This site is included in the Tri-Party Agreement Action Plan [790]

HANFORD AREA: 100-F Area [790]

COORDINATES: N78500 W29444 [790]

LOCATION: Southeast of 126-F-1 and directly north of 128-F-3, ~70 ft north of the dirt road [790]

SITE DIMENSIONS: Site Area: 4,500.00 square feet [790]
Length: 150.00 feet [790]
Width: 30.00 feet [790]

SITE DESCRIPTION: The site contains only one trench. The site appears to have been backfilled, and native vegetation has become re-established. The site is posted as a surface-contaminated area, and a chain barricade with radiation signs surrounds the site [790].

Waste Information Data System
General Summary Report
December 2, 1991

SITE NAME: 120-F-1 [638]

ALIASES:

Glass Dump [638]

SITE TYPE: Trench [638]

WASTE CATEGORY: Hazardous Waste [638]

WASTE TYPE: Solid [638]

STATUS: Inactive [638]

OPERABLE UNIT: 100-FR-2 [638]

O.U. CATEGORY: Undefined [638]

This site is included in the Tri-Party Agreement Action Plan [638]

HANFORD AREA: 100-F Area [638]

LOCATION: 210 yards south of 128-F-1 [638]

SITE DIMENSIONS: Length: 30.00 feet [638]

Width: 8.00 feet [638]

Depth: 4.00 feet [638]

SITE DESCRIPTION: The site was cut into the ground with the front blade of a bulldozer, pushing all the dirt to the west end of the unit. The original access road is overgrown with 3-ft-high sagebrush, indicating this site has not been used for many years [638].

WASTE TYPES AND AMOUNTS: The site is covered with ~2 ft of florescent tubes; incandescent light bulbs; instrument vacuum tubes; and small AAA, C, and D batteries. The site also contains an assortment of chemical bottles, both large and small [638].

Waste Information Data System
General Summary Report
December 2, 1991

SITE NAME: 128-F-3 [765]

ALIASES:

PNL Burn Pit

SITE TYPE: Burning Pit [765]
WASTE CATEGORY: Hazardous Waste [765]
WASTE TYPE: Solid [765]

STATUS: Inactive [765]

OPERABLE UNIT: 100-FR-2 [765]

Q.U. CATEGORY: Undefined [765]

This site is included in the Tri-Party Agreement Action Plan [765]

HANFORD AREA: 100-F Area [765]

LOCATION: South of 126-F-1 Ash Pile, ~100 ft south of the dirt access road [765]

SITE DIMENSIONS: Length: 100.00 feet [765]
Width: 100.00 feet [765]

SITE DESCRIPTION: The site is characterized by annual weeds. The surface has a thin layer of coal and coal ash mixed with fine sandy soil. Scraping the surface a few inches reveals black ash or coal dust. Nothing on the soil surface distinguishes this site from other sites of coal ash dumping found along the dirt road just south of the ash disposal pit [765].

WASTE TYPES AND AMOUNTS: It is not known what was burned at the site. It was, however, verified that the site was used for burning by PNL and WHC employees. In 1988, the DOE Headquarter Environmental survey conducted sampling at this site. A backhoe was used for the investigation. A hole was dug 6 to 8 ft deep, but because of the coal ash used for fill, the sides of the ditch caved in. Nothing but coal ash was found at the site [765].

Waste Information Data System
General Summary Report
December 2, 1991

SITE NAME: 126-H-2 [333]
ALIASES:
183-H Clearwells [333]

SITE TYPE: Demolition and Inert Landfill [767]
WASTE CATEGORY: Nonhazardous/Nonradioactive [767]
WASTE TYPE: Solid [767]

STATUS: Active [767]
START DATE: 1970s [767]

OPERABLE UNIT: 100-HR-1 [767]
O.U. CATEGORY: RCRA Past Practice [767]

This site is included in the Tri-Party Agreement Action Plan [767]

HANFORD AREA: 100-H Area [767]

COORDINATES: N96150 W39600 [707]

LOCATION: ~900 ft north of the 105-H Reactor Building, at the site of the 183-H Water Treatment Facility (demolished except for solar basin portion) [707]

SITE DIMENSIONS: Site Area: 101,385.00 square feet [767]
Length: 751.00 feet [767]
Width: 135.00 feet [767]

SITE DESCRIPTION: The unit consists of covered reinforced concrete basins, having a capacity of ~10M gal and separated in the center by a pump room. The pump room was reinforced concrete and largely below grade. The above-ground portion of the pump room has been demolished, and the below-ground portion has been filled with pump room rubble and backfill. Approximately 50% of the east clearwell basin contains waste. The west clearwell remains intact [767].

ASSOCIATED STRUCTURES:

The clearwells were associated with the 183-H Water Treatment Facility [767].

WASTE TYPES AND AMOUNTS: The unit now contains nonhazardous and nonradioactive demolition and inert waste from demolished facilities. This waste includes rubble from such facilities as 190-H, 151-H, and 1701-D [767].

COMMENTS: This unit is under the Hanford Surplus Facility Program [767].

SITE NAME: 126-H-2

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ENVIRONMENTAL MONITORING: The unit receives monthly Environmental Protection surveillance. Inactive Facilities Surveillance & Maintenance (landlord) maintains waste disposal logs (767).

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Waste Information Data System
General Summary Report
December 2, 1991

SITE NAME: 628-1 [634]

ALIASES:

White Bluffs Burn Pit [634]

SITE TYPE: Burning Pit [634]

WASTE CATEGORY: Hazardous Waste [634]

WASTE TYPE: Solid [634]

STATUS: Inactive [634]

OPERABLE UNIT: 100-IU-2 [634]

O.U. CATEGORY: Undefined [634]

This site is included in the Tri-Party Agreement Action Plan [634]

HANFORD AREA: 600 Area [634]

COORDINATES: N80900 W38450 [634]

LOCATION: ~1,000 ft north of the Route 2 North and Federal Ave. intersection [634]

SITE DESCRIPTION: This unit was covered with sand and gravel (cannot determine if it is natural erosion, backfill, or both). The size is unknown; however, physical evidence (e.g. small pieces of ash, etc.) indicates that the area affected was ~1/4 acre. Vegetation is stressed. Rabbit brush growth is almost nonexistent compared to the growth on the surrounding terrain and tumbleweeds are discolored and stressed. Verification of site coordinates is required; they are based on coordinates for well #81-38 [634].

ASSOCIATED STRUCTURES:

Associated with the remaining White Bluffs Fire Station foundation located ~1,000 ft south of this unit. The foundation is adjacent to the intersection of Route 2 North and Federal Avenue [634].

WASTE TYPES AND AMOUNTS: Soil sampling will be required to determine what contaminants are present [634].

Waste Information Data System
General Summary Report
December 2, 1991

SITE NAME: 126-K-1 [333]
ALIASES:
100-K Gravel Pit [333]

SITE TYPE: Demolition and Inert Landfill [642]
WASTE CATEGORY: Nonhazardous/Nonradioactive [642]
WASTE TYPE: Solid [642]

STATUS: Active [642]
START DATE: 1970's [642]

OPERABLE UNIT: 100-KR-2 [642]
O.U. CATEGORY: CERCLA Past Practice [642]

This site is included in the Tri-Party Agreement Action Plan [642]

HANFORD AREA: 100-K Area [642]
COORDINATES: NK4250 WK3175 (southwest corner) [642]
LOCATION: The western perimeter is ~625 ft east of the 100-K area east perimeter fence and borders the eastern perimeter of the 118-K-1 burial ground [642]

SITE DESCRIPTION: This unit is a gravel borrow pit that resulted from 100-K Area construction. The slope of the southwest corner contains demolition waste. This area is covered with pit run backfill material. The bottom contains one ~5 ft layer of demolition and inert waste covered with ~1 ft of pit run backfill material. Approximately 80% of this unit is unused [642].

WASTE TYPES AND AMOUNTS: The unit contains demolition and inert waste from 100-K area, Near Surface Test Facility (NSTF) at Gable Mountain, and Exploratory Shaft (ES) site. Primarily, waste consists of concrete, wood, steel pipe, structural steel, conduit, and wire [642].

ENVIRONMENTAL MONITORING: The unit is monitored monthly by Environmental Protection surveillance. Inactive Facilities Surveillance & Maintenance (landlord) maintains a waste disposal log for this site [642].

Waste Information Data System
General Summary Report
December 2, 1991

SITE NAME: 628-2 [636]

ALIASES:

100 Area Fire Station Burn Pit [636]

SITE TYPE: Burning Pit [636]

WASTE CATEGORY: Hazardous Waste [636]

WASTE TYPE: Solid [636]

STATUS: Inactive [636]

END DATE: 1985 [636]

OPERABLE UNIT: 200-IU-2 [636]

O.U. CATEGORY: Undefined [636]

This site is included in the Tri-Party Agreement Action Plan [636]

HANFORD AREA: 600 Area [636]

COORDINATES: N72500 W58500 Based on Hanford Land Coord. per Hanford Site Map H-6-951 [636]

LOCATION: ~500 ft north of the 100 Area Fire Station and 200 ft west of Route 4 North [636]

SITE DESCRIPTION: Information indicates that this unit was ~3 to 4 ft deep by 6 ft in diameter; however, physical evidence (e.g. ash, debris, soil discoloration, etc.) indicates that the area affected by the burning activities is considerably larger (~1/4 acre). Composition of the pit is sand and dirt. Vegetation is sparse and shows definite signs of stress. The area is not marked and is covered with soil. Verification (survey) of coordinates is required [636].

ASSOCIATED STRUCTURES:

Associated with the 100 Area Fire Station located at the intersection of Route 1 and Route 4 North [636].

WASTE TYPES AND AMOUNTS: Available information (no supporting written documentation) indicates that mainly motor oil and diesel fuel contaminated with water or deemed unusable were burned. According to the Fire Chief, toluene is an example of a hazardous chemical burned at this site. Soil sampling will be required to determine what contaminants are present [636].

Waste Information Data System
General Summary Report
December 2, 1991

SITE NAME: UN-600-19 [794]

ALIASES:

Lime Sulfer Barrel [794]

SITE TYPE: Unplanned Release [794]

WASTE CATEGORY: Hazardous Waste [794]

WASTE TYPE: Solid [794]

STATUS: Inactive [794] Pre-1980 [794]

OPERABLE UNIT: 200-IU-4 [794]

Q.U. CATEGORY: Undefined [794]

This site is included in the Tri-Party Agreement Action Plan [794]

HANFORD AREA: 600 Area [794]

LOCATION: ~1/4 mi west of Route 2N and ~200 yd south of mile marker 3 at the old Herriford home site [794]

KNOWN RELEASES: An old wooden barrel of lime-sulfer pesticide was broken, and the contents remain on the ground [794].

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Waste Information Data System
General Summary Report
December 2, 1991

SITE NAME: 299-E24-111 [649]

SITE TYPE: Injection Well [649]
WASTE CATEGORY: Low-Level Waste [649]
WASTE TYPE: Liquid [649]

STATUS: Inactive [648]
START DATE: September 22, 1980 [648]
END DATE: February 2, 1981 [648]

OPERABLE UNIT: 200-PO-2 [649]
O.U. CATEGORY: Undefined [649]

This site is included in the Tri-Party Agreement Action Plan [649]

HANFORD AREA: 200 East, A Plant [648]
COORDINATES: N39161 W49425 [648]
LOCATION: Southwest of Purex, west of 216-A-38-1 Crib [648]

SITE DESCRIPTION: The unit consists of a 15 ft 1-in. pipe inside 15 ft of NX casing, welded together at the lower end. This assembly is cemented inside a 15-ft-deep, 6-in.-diameter schedule 40 steel well [648].

ASSOCIATED STRUCTURES:
32 observation wells, each constructed from three 20-ft sections and one 5-ft section of 6-in.-diameter schedule 40 steel casing. One above ground, 1,500-gal mixing tank.

WASTE TYPES AND AMOUNTS: Eleven 1,000-gal injections of uniform solutions of calcium chloride, calcium nitrate and selected tracers (Cg-134 and Sr-85) [648].

COMMENTS: This unit was part of an experimental test site constructed to obtain radionuclide migration data for model forecasting [648].

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SITE NAME: UN-200-W-161 [647]

ALIASES:

UN-216-W-35 [647]

SITE TYPE: Unplanned Release [647]

WASTE CATEGORY: Low-Level Waste [647]

WASTE TYPE: Solid [647]

STATUS: Inactive [647]

OPERABLE UNIT: 200-UP-2 [647]

O.U. CATEGORY: CERCLA Past Practice [647]

This site is included in the Tri-Party Agreement Action Plan [647]

HANFORD AREA: 200 West Area [647]

COORDINATES: N38500 W75000 [647]

LOCATION: 50 ft East of 241-U Tank Farm, 100 ft North of 207-U Retention Basin
[647]

SITE DESCRIPTION: Surface contamination that covers ~2 acres [647].

WASTE TYPES AND AMOUNTS: The general contamination was 250 to 450 ct/min with spots of 600 to 800 ct/min. One 5-ft by 5-ft area was contaminated up to 8,000 ct/min. Soil sample results indicate that the main radionuclide present is strontium (2.93E+03 pCi/g) [647].

ENVIRONMENTAL MONITORING: A radiological survey is performed annually [647].

SURVEILLANCE INFORMATION [680]

SURVEY DATE: 10/90

SURVEY SCHEDULE: Annual

SITE POSTING: Surface Contamination

RESULTS/STATUS: There is general contamination from 200 to 500 ct/min. Similar conditions were reported in the 1989 survey.

ACTION REQUIRED: Continue to monitor for change.

This unit is in compliance with the Environmental Compliance Manual.

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SITE NAME: 628-4 [793]

SITE TYPE: Burning Pit [696]
WASTE CATEGORY: Hazardous Waste [793]
WASTE TYPE: Solid [793]

STATUS: Inactive [793]
START DATE: 1962 [696]

OPERABLE UNIT: 300-FF-1 [793]
O.U. CATEGORY: CERCLA Past Practice [793]

This site is included in the Tri-Party Agreement Action Plan [793]

LOCATION: -40 ft north of the septic tank for the 300 Area Sanitary Trenches [696]

SITE DESCRIPTION: At present (8-22-91), the site is covered with flyash (stabilized).
The stabilized area is 4 ft above grade and covered with light vegetation [793].

ASSOCIATED STRUCTURES:

The unit was used as an alternate in conjunction with the buring
in Burial Ground 5 (618-5) to allow the units to cool between
burnings [696].

WASTE TYPES AND AMOUNTS: The unit was used mainly for burning paper, wood, paint cans,
and other operations debris; however, some incidental radioactive materials may have
also been burned [696].

CLEANUP ACTIONS: A photo taken in May 1974 shows the unit was decommissioned and filled
[696].

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SITE NAME: 120-D-2 [792]

ALIASES:

186-D Waste Acid Reservoir [792]

SITE TYPE: Storage Tank [792]
WASTE CATEGORY: Nonhazardous/Nonradioactive [792]
WASTE TYPE: Solid [792]

STATUS: Inactive [792] Pre-1980 [792]

OPERABLE UNIT: 100-DR-1 [792]
O.U. CATEGORY: RCRA Past Practice [792]

This site is included in the Tri-Party Agreement Action Plan [792]

HANFORD AREA: 100-D Area [792]

COORDINATES: N92170 W53840 (NE corner) [792]

LOCATION: Immediately west and south of the center of the 186-D Building [792]

SITE DIMENSIONS: Site Area: 8,525.00 square feet [799]
Length: 92.33 feet [799]
Width: 92.33 feet [799]
Depth: 14.00 feet [799]

SITE DESCRIPTION: The unit was constructed of acid-proof brick, 3-ply waterproof membrane, vit pipe, #8 lead flashing, and gunnite. The sides of the reservoir were sloped 2:1 from 5 ft below grade level to the bottom [799]. At present, the site area is covered with gravel and annual weeds. No evidence remains on the surface of the building structure. A brick manhole at the site may have been associated with the structure [792].

ASSOCIATED STRUCTURES:

The reservoir drains were connected to the 100-D Area process sewer system. The 186-D was originally constructed to be used as a water treatment plant, and the acid waste reservoir was constructed to receive waste acid from 186-D. The 186-D was never used as a water treatment plant; the 186-D Building was used as a warehouse [792].

WASTE TYPES AND AMOUNTS: This unit was never used for waste acid storage. No records have been found to document the disposal of waste of any kind in this facility. No written documentation has been found concerning the disposal of the lead flashing that was used in the construction of the waste acid reservoir; however, it is assumed that the lead flashing was disposed in situ during the demolition of the 186-D facility [792].

SITE NAME: 120-D-2

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CLEANUP ACTIONS: The 186-D Building and the Waste Acid Reservoir were demolished in 1979 [1992].

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SITE NAME: 126-D-3 [762]

ALIASES:

D Area Brine and Salt Dilution Pits [762]

SITE TYPE: Brine Pit [762]

WASTE CATEGORY: Nonhazardous/Nonradioactive [762]

WASTE TYPE: Solid [762]

STATUS: Inactive [762] Pre-1980 [762]

OPERABLE UNIT: 100-DR-1 [762]

O.U. CATEGORY: RCRA Past Practice [762]

This site is included in the Tri-Party Agreement Action Plan [762]

HANFORD AREA: 100-D Area [762]

LOCATION: North of 184-D and just south of the railroad tracks [762]

SITE DESCRIPTION: The salt dissolving pit and brine pit were both below-grade concrete vaults with internal void spaces (brine pit 500 ft³, dissolving pit 900 ft³) [759]. No evidence of the site remains on the surface [762].

CLEANUP ACTIONS: The site was demolished in situ March 1988. Both pits were sampled for radiation and EP toxic metals. Samples showed the NaCl concentrations were greater than 10% (hazardous material limit). No significant radioactive materials were found. Northwest Environmental Services, Inc. removed all hazardous waste and salt cake from the pits and certified them clean before in situ demolition and final grading. The pits were partially backfilled with rubble and leveled to grade with clean fill [759].

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SITE NAME: 132-B-1 [768]

ALIASES:

108-B Tritium Separation Facility [768]

SITE TYPE: Building [768]

WASTE CATEGORY: Low-Level Waste [768]

WASTE TYPE: Solid [768]

STATUS: Inactive [768] Pre-1980 [768]

START DATE: 1944 [770]

END DATE: 1970s [770]

OPERABLE UNIT: 100-BC-1 [768]

O.U. CATEGORY: CERCLA Past Practice [768]

This site is included in the Tri-Party Agreement Action Plan [768]

HANFORD AREA: 100-B Area [770]

COORDINATES: N69750 W80658 (northeast corner) [770]

LOCATION: ~700 ft north of 105-B Reactor Building [770]

SITE DIMENSIONS: Length: 148.00 feet [768]

Width: 32.00 feet [768]

SITE DESCRIPTION: The building was a steel frame and concrete block structure with reinforced concrete foundation and floors. The interior was laid out into many individual rooms that were used for laboratories, offices, and change rooms. The original building was 41 ft above grade, 12 ft below grade, and 132 ft long, with a 16-ft extension for an additional ventilation supply fan. Also, an annex 60 ft long by 32 ft wide was added to the southwest corner of the original building [770]. Now the site is graded flat. All that remains is a section of concrete foundation with two teardrop-shaped steel plates ~20 to 26 in. in diameter. The foundation is inside an "underground radiation zone" [768].

ASSOCIATED STRUCTURES:

The 108-B Dry Well was left undisturbed. The drain line to the 108-B Crib was removed to a point south of the entrance road and capped [769].

WASTE TYPES AND AMOUNTS: The main radionuclide at the site is tritium [768].

SITE NAME: 132-B-1

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COMMENTS: The intended use was to provide facilities for the mixing and addition of chemicals used in the treatment of the reactor cooling water. Shortly after the reactor began operation, it was determined that the chemical mixing and addition function could be better performed elsewhere in the cooling water supply system. The 108-B Building was then converted to a tritium recovery processing facility and utilized as such until 1954. After the tritium processing facility was closed down, operational activity was limited to the first floor. The tube examination hot cell and laboratory rooms located there were utilized until the early 1970's [770].

CLEANUP ACTIONS: The decommissioning was completed May 1985. All the above-grade portions of the building were demolished to a minimum of 3 m below grade. The clean rubble and debris were disposed in the 184-D Coal Pit. The radiological waste, consisting of lab equipment, cells, drains, and exhaust ducts, were disposed in a 200 Area burial ground. The rest of the facility was demolished in situ. The site was covered with at least one meter of clean fill and graded to match existing terrain [770].

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SITE NAME: 132-B-3 [772]

ALIASES:

108-B Ventilation Exhaust Stack [772]

SITE TYPE: Stack [772]
WASTE CATEGORY: Low-Level Waste [772]
WASTE TYPE: Solid [772]

STATUS: Inactive [772] Pre-1980 [772]

OPERABLE UNIT: 100-BC-1 [772]

O.U. CATEGORY: CERCLA Past Practice [772]

This site is included in the Tri-Party Agreement Action Plan [772]

HANFORD AREA: 100-B Area [772]

COORDINATES: N69704 W80720 (base) [761]

LOCATION: The burial trench is west of 108-B Crib (116-B-5) and north of Hanford Route 1; the base is west of the 108-B (132-B-1) [771]

SITE DIMENSIONS: Length: 300.00 feet [771]
Diameter: 18.00 feet [771]

SITE DESCRIPTION: A burial trench was excavated north of the stack. The dimensions are 250 ft long, 30 ft wide, and 18 ft deep. The stack was built of reinforced concrete. The maximum wall thickness was 2.5 ft at the base. It rested on a double-octagon base that extended 10.25 ft below grade. The upper octagon was 25 ft across the flats and 3.25 ft thick. The lower octagon was 34 ft across the flats and 7 ft thick. The stack contained a stainless steel liner. Supported by concrete pillars, it was located 6 ft above the base and extended up 6 more feet [771].

CLEANUP ACTIONS: On September 9, 1983, the stack was demolished under the ARCL method in conjunction with in situ decommissioning for permanent disposal. Explosives were used to fall the stack. Clean fill was used to cover the rubble. The foundation was demolished separately in place and covered with clean fill [771].

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SITE NAME: 132-C-3 [659]
ALIASES:
117-C Filter Building [659]

SITE TYPE: Building [659]
WASTE CATEGORY: Low-Level Waste [659]
WASTE TYPE: Solid [659]
STATUS: Inactive [659] Pre-1980 [653]
START DATE: 1961 [653]
END DATE: 1969 [653]

OPERABLE UNIT: 100-BC-2 [659]
O.U. CATEGORY: CERCLA Past Practice [659]

This site is included in the Tri-Party Agreement Action Plan [659]

HANFORD AREA: 100-C Area [653]
COORDINATES: N67240 W80280 (southwest corner) [653]
LOCATION: ~50 ft southeast of the 105-C Reactor Building [653]

GROUND ELEVATION: 479.00 feet above MSL [17]

SITE DIMENSIONS: Length: 59.00 feet [653]
Width: 39.00 feet [653]

SITE DESCRIPTION: The unit was a reinforced concrete structure, 35 ft high, and almost completely below grade. Approximately 8 ft was above grade. The maximum thickness of the walls and floors was 2 ft, with the majority being 1 ft thick or less. The ducts were made of reinforced concrete with a maximum wall thickness of 12 in. The inlet tunnel was ~40 ft long, and the exhaust tunnel was ~60 ft long [653]. The site now resembles a gravel parking lot [659].

ASSOCIATED STRUCTURES:

The building received exhaust fan discharge through an inlet duct from the 105-C and discharged the filtered air through a discharge duct and out the 116-C stack [653].

WASTE TYPES AND AMOUNTS: Total radionuclide inventory in this unit is estimated to be 0.84 mCi. The radionuclides comprising this inventory are H-3, C-14, Co-60, Cs-137, Sr-90, Eu-154, Eu-152, and Pu-239/240. Of these radionuclides, Sr-90 is the most restrictive in the ARCL calculations [653].

SITE NAME: 132-C-3

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RELEASE POTENTIAL: The interior surfaces of the building were coated with polyvinyl (ply-on) to seal cracks and imperfections in the concrete [626].

CLEANUP ACTIONS: The site was decommissioned using ARCL methodology [656]. Demolition and site grading were performed in October and November 1988 [659]. The building and ducts were excavated and demolished in situ. The contaminated rubble was buried at least 1 m deep, except for the rubble from the seal pits which were buried under a minimum of m of clean earth [653].

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SITE NAME: 132-F-5 [701]

ALIASES:

117-F Filter Building [701]

SITE TYPE: Building [701]

WASTE CATEGORY: Low-Level Waste [701]

WASTE TYPE: Solid [701]

STATUS: Inactive [701] Pre-1980 [701]

OPERABLE UNIT: 100-FR-1 [701]

O.U. CATEGORY: CERCLA Past Practice [701]

This site is included in the Tri-Party Agreement Action Plan [701]

HANFORD AREA: 100-F Area [707]

COORDINATES: N79100 W31450 [707]

LOCATION: West 105-F [707]

GROUND ELEVATION: 405.00 feet above MSL [17]

SITE DIMENSIONS: Length: 59.00 feet [701]

Width: 39.00 feet [701]

SITE DESCRIPTION: The unit and duct work were all made of reinforced concrete, 1 to 2 ft thick. The building was 35 ft high with 8 ft above ground [701].

ASSOCIATED STRUCTURES:

The building received exhaust fan discharge through an inlet duct from the 105-F and discharged the filtered air through a discharge duct and out the 116-F Stack [701].

WASTE TYPES AND AMOUNTS: The radionuclides found in the 117-F Building are H-3, C-14, Co-60, Cs-137, Sr-90, Eu-154, and Eu-152 [701].

CLEANUP ACTIONS: The site was decommissioned using ARCL methodology. The building and ducts were excavated and demolished in situ. The contaminated rubble was buried at least 1 m deep except for rubble from the seal pits, which was buried under a minimum of 5 m of clean earth [701].