
Hazard Ranking System Evaluation of CERCLA Inactive Waste Sites at Hanford

**Volume 2 - Engineered-Facility Sites
(HISS Data Base)**

R. D. Stenner	D. A. Lamar
K. H. Cramer	T. J. McLaughlin
K. A. Higley	D. R. Sherwood
S. J. Jette	N. C. Van Houten

October 1988

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

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



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Pacific Northwest Laboratory
Richland, Washington 99352

PREFACE

The purpose of this report is to formally document the assessment activities at the U.S. Department of Energy (DOE) Hanford Site. These activities were carried out pursuant to the DOE orders that address the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Program for the cleanup of inactive waste sites. The DOE orders incorporate the U.S. Environmental Protection Agency methodology, which is based on the Superfund Amendments and Reauthorization Act of 1986. This methodology includes: PA/SI, remedial investigation/feasibility study, record of decision, design and implementation of remedial action, operation and monitoring, and verification monitoring.

Volume 1 of this report discusses the CERCLA inactive waste-site evaluation process, assumptions, and results of the Hazard Ranking System methodology employed.

Volume 2 presents the data on the individual CERCLA engineered-facility sites at Hanford, as contained in the Hanford Inactive Site Surveillance (HISS) Data Base.

Volume 3 presents the data on the individual CERCLA unplanned-release sites at Hanford, as contained in the HISS Data Base.

REFERENCES CITED IN THE
HISS DATA BASE

The following references are listed by report number, as cited in the HISS Data Base.

- ARH-947. Curren, E. F. 1968. 200 Areas Disposal Sites for Radioactive Liquid Wastes. Atlantic Richfield Hanford Company, Richland, Washington.
- ARH-2015. Maxfield, H. L. 1971. Radioactive Contamination in Unplanned Releases to Ground Within the Chemical Separations Area Control Zone Through 1970. Atlantic Richfield Hanford Company, Richland, Washington.
- ARH-2190. Lundgren, L. L. 1971. Outdoor Radiation Zones in the 200 West Area. Atlantic Richfield Hanford Company, Richland, Washington.
- ARH-2757. Maxfield, H. L. 1973. Radioactive Contamination in Unplanned Releases to Ground Within the Chemical Separations Area Control Zone Through 1972. Atlantic Richfield Hanford Company, Richland, Washington.
- ARH-2806. Anderson, J. D. 1974. Radioactive Liquid Wastes Discharged to Ground in the 200 Areas During 1973. Atlantic Richfield Hanford Company, Richland, Washington.
- ARH-2915. Smith, A. E. 1973. Nuclear Reactivity Evaluations of 216-Z-9 Enclosed Trench. Atlantic Richfield Hanford Company, Richland, Washington.
- ARH-ST-106. Raile, M. N. 1974. P-11 Facility Cleanup Summary Report. Atlantic Richfield Hanford Company, Richland, Washington.
- DUN-3155. Loe, J. W. 1967. An Investigation of Effluent Control Standards and Practices. Douglas United Nuclear, Inc., Richland, Washington.
- DUN-7623. Westover, W. G. 1971. Radiological Status Report Deactivation of the 105-C Reactor Plant. Douglas United Nuclear, Inc., Richland, Washington.
- ERDA-1538. U.S. Energy Research and Development Administration. 1975. Final Environmental Statement, Waste Management Operations, Hanford Reservation, Richland, Washington. Washington, D.C.
- HW-9671. Brown, R. E., and H. G. Ruppert. 1948. Underground Waste Disposal at Hanford Works. General Electric Company, Richland, Washington.
- HW-28471. Ruppert, H. G. 1953. Unconfined Underground Radioactive Waste and Contamination in the 200 Areas. General Electric Company, Richland, Washington.
- HW-33305. Clukey, H. V. 1954. Tabulation of Radioactive Liquid Waste Disposal Facilities. General Electric Company, Richland, Washington.

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HISS DATA BASE

The HISS (Hanford Inactive Site Survey) Data Base is a computerized data file documenting past waste-disposal information for inactive waste-disposal sites and unplanned chemical and radiological releases to the environment at Hanford. Volume 2 contains the HISS files for Hanford's inactive waste-disposal sites. Table 1 indicates the type of information contained in these files that is unique to each individual site.

In addition to physical features and history of each site, a chemical-waste and radionuclide inventories are provided in the HISS Data Base. All appropriate quantities of chemical wastes disposed of and their inventories are included for each site independently. Table 2 is a sample sheet for these chemicals and their radionuclide inventories. A zero in the column for quantity of chemicals disposed of does not indicate that a particular constituent is not present in that waste. Rather, it means that no data were available to estimate a quantity. At the sites for which no chemicals are listed, but for which a total volume is included (for example, the 200-North Area sites), the discharge was water only.

Each operating facility has its own characteristic set of chemical constituents. For example, all chemical wastes from C-Plant include:

- nitrate
- tributyl phosphate
- paraffin hydrocarbon
- nitric acid
- sodium.

For some of the 100, 300, and 600 Areas, no referenceable documentation for a radionuclide inventory exists. For these areas, a panel of employees from the appropriate contractor was asked to estimate an inventory. For the 200 Areas, a document published by Rockwell Hanford Operations, Radioactive Liquid Wastes Discharged to Ground in the 200 Areas During 1984 (RHO-HS-SR-84-3), was used; the data decayed to April 1, 1986.

TABLE 1. Sample Data Base Sheet

SITE ID NO.: The appropriate designation for all Hanford waste-disposal sites

ALIAS: Any past designation and/or commonly used name FACILITY: The type of disposal facility implemented

STATUS:

DIMENSIONS: The dimensions of the waste-disposal site ELEVATION: The elevation above mean sea level

Length:

Width:

Depth:

Diameter:

WATER TABLE: The distance from the waste-disposal to the water table

HRS MIGRATION SCORE: Site migration score from HRS evaluation

LOCATION: The general area in which the site is contained

COORDINATES: The exact location of the waste-disposal site (Hanford Plant Grid)

SITE DESCRIPTION: A brief description of how the waste-disposal site is constructed

SERVICE DATES: The time period in which the waste-disposal site was operational

SERVICE HISTORY: A brief description of what type of waste was placed in the site

REFERENCES: All appropriate documentation used in the analysis of this data base

Documents: See the reference list by document number at the conclusion of Volume 2

Photographs: Photos may be ordered by their appropriate photo identification number from: Pacific Northwest Laboratory, Richland, WA

Drawings: Drawings may be ordered by their appropriate drawing number from: Westinghouse Hanford Company, Engineering Files, Richland, WA

TABLE 2. Sample Sheet for Chemicals Disposed of
and Radionuclide Inventory

SITE ID NO.: Appropriate site
identification number

CHEMICALS DISPOSED

NITRATE	kg
TRIBUTYL PHOSPHATE	kg
PARAFFIN HYDROCARBON	kg
NITRIC ACID	kg
SODIUM	kg
TOTAL VOLUME DISPOSED	Liters

(A similar type of chemical inventory sheet can also be found for hazardous solid waste and metallic wastes in solid waste-disposal sites)

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

100 AREA ENGINEERED-FACILITY SITES

The following sites are included in this section. To locate these sites, please refer to the appropriate area map in Appendix B, Volume 1, of this document.

<u>100-B/C Area</u>	<u>100-D/DR Area</u>	<u>100-F Area</u>
116-B-1	116-D-1A	116-F-1
116-B-2	116-D-1B	116-F-2
116-B-3	116-D-2	116-F-3
116-B-4	116-D-3	116-F-4
116-B-5	116-D-4	116-F-5
116-B-6-1	116-D-6	116-F-6
116-B-6-2	118-D-1	116-F-7
116-B-9	118-D-2	116-F-9
116-B-10	118-D-3	116-F-10
118-B-1	118-D-4	116-F-11
118-B-2	118-D-5	116-F-12
118-B-3	117-D	116-F-13
118-B-4	107-D Retention Basin	118-F-1
118-B-5	116-DR-1	118-F-2
118-B-6	116-DR-2	118-F-3
118-B-7	116-DR-3	118-F-4
117-B	116-DR-4	118-F-5
107-B Retention Basin	116-DR-6	118-F-6
116-C-1	116-DR-7	118-F-7
116-C-2	116-DR-8	100-F Burning Pits-2
116-C-2-2	118-DR-1	107-F Retention Basin
118-C-1	100-D/DR Burning Pit	
118-C-2	107-DR Retention Basin	
100-B/C Burning Pit		
107-C Retention Basin		
<u>100-H Area</u>	<u>100-K Area</u>	
116-H-1	116-K-1	100 KW*2
116-H-2	116-K-2	118-K
116-H-3	116-KE-1	100-K Burning Pit
116-H-4	116-KE-2	107-KW Retention Basin
118-H-1	116-KE-3	
118-H-2	100KE*1	
118-H-3	100KE*2	
118-H-4	100KE*3	
118-H-5	107-KE Retention Basin	
117-H	116-KW-1	
100-H Burning Pit	116-KW-2	
107-H Retention Basin	100 KW*1	

SITE ID NO.: 116-B-1

ALIAS: 107-B Liquid Waste Disposal Trench
STATUS: Inactive
DIMENSIONS:
Length: 100 ft
Width: 10 ft
Depth: 20 ft
Diameter: 0 ft

FACILITY: Trench
ELEVATION: 440 ft
WATERTABLE: 41 ft
HRS Migration Score: 42.320

LOCATION: 100-B/C
COORDINATES: N71530/W79600

SITE DESCRIPTION:

Trench, with 100 ft. x 10 ft. surface dimensions, 20 ft. deep.

SERVICE DATES: 1946-1955

SERVICE HISTORY:

From 1946 to 1955, the site received effluent overflow from the 107-B retention basin at times of high activity due to fuel element failure. The site was retired in 1955.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121
Photographs: 122440-293-CN
Drawings: H-3-57210, G-7-215, H-1-4049, P-5540

SITE ID NO.: 116-B-1

CHEMICALS DISPOSED

SODIUM DICHROMATE:	60.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	60000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.05730	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.09780	EU-152:	1.18000
NI-63:	0.00000	EU-154:	0.19000
KR-85:	0.00000	EU-155:	0.02430
SR-90:	0.07040	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00009
NB-95:	0.00000	PU-239:	0.00730
ZR-95:	0.00000	PU-240:	0.00799
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00013
SB-125:	0.00000	U-238:	0.01290
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00039	BETA:	0.00000
CS-137:	0.30600	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-B-2

ALIAS: 105-B Storage Basin Trench

STATUS: Inactive

DIMENSIONS:

Length: 130 ft

Width: 10 ft

Depth: 6 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 468 ft

WATERTABLE: 69 ft

HRS Migration Score: 40.093

LOCATION: 100-B/C

COORDINATES: N69080/W80250

SITE DESCRIPTION:

Trench, with a 130 ft. x 10 ft. bottom surface. The trench was filled in 1946 with 6-15 ft. of soil.

SERVICE DATES: 1946-1946

SERVICE HISTORY:

From 1946 to 1946 the trench was dug after a fuel element was cut in half (accidentally) in the 105-B storage basin. The basin was cleaned by draining water into this trench. The site was retired in 1946.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-402-CN

Drawings: H-3-57210, H-1-4049, G-7-215

SITE ID NO.: 116-B-2

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	4000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00819	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00030	EU-152:	0.00539
NI-63:	0.00000	EU-154:	0.00057
KR-85:	0.00000	EU-155:	0.00142
SR-90:	0.01150	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00234
ZR-95:	0.00000	PU-240:	0.00026
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00089
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.06450	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-B-3

ALIAS: 105-B Pluto Crib

STATUS: Inactive

DIMENSIONS:

Length: 10 ft
Width: 10 ft
Depth: 10 ft
Diameter: 0 ft

FACILITY: Crib

ELEVATION: 468 ft

WATERTABLE: 72 ft

HRS Migration Score: 16.220

LOCATION: 100-B/C

COORDINATES: N69120/W80430 (Center of crib)

SITE DESCRIPTION:

A crib, 10 ft. x 10 ft., with sand fill and shored with railroad ties.

SERVICE DATES: 1951-1952

SERVICE HISTORY:

From 1951 to 1952 the site received effluent from reactor tubes containing failed fuel elements. In 1952, the site was retired and covered to grade with clean soil.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-305-CN

Drawings: H-3-57210, H-1-4049, G-7-215

SITE ID NO.: 116-B-3

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.004 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	4000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.22700	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.31700	EU-152:	0.27600
NI-63:	0.00000	EU-154:	0.03760
KR-85:	0.00000	EU-155:	0.00789
SR-90:	0.01960	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00122
NB-95:	0.00000	PU-239:	0.00603
ZR-95:	0.00000	PU-240:	0.00067
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00034
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.14100	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-B-4

ALIAS: 105-B Dummy Decon. French Drain

STATUS: Inactive

DIMENSIONS:

Length: 0 ft
Width: 0 ft
Depth: 20 ft
Diameter: 4 ft

FACILITY: French Drain

ELEVATION: 470 ft

WATERTABLE: 71 ft

HRS Migration Score: 44.547

LOCATION: 100-B/C

COORDINATES: N69070/W80430 (Center of crib)

SITE DESCRIPTION:

A French Drain structure 4 ft. diameter x 20 ft. deep with a graded rock and sand bottom.

SERVICE DATES: 1957-1968

SERVICE HISTORY:

From 1957 to 1968, the site received spent acid rinse water from the 105-B dummy (fuel element spacers) decontamination facility. The site was retired in 1965.

REFERENCES:

Documents: UNI-946

Photographs: 122440-403-CN

Drawings: H-3-57210, G-7-215

SITE ID NO.: 116-B-4

CHEMICALS DISPOSED

SODIUM DICHROMATE:	1000.000 kg
SODIUM OXYLATE:	1000 kg
SODIUM SULFAMATE:	6000 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	300000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	4.33000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-B-5

ALIAS: 108-B Crib

STATUS: Inactive

DIMENSIONS:

Length: 84 ft

Width: 16 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 459 ft

WATERTABLE: 61 ft

HRS Migration Score: 40.093

LOCATION: 100-B/C

COORDINATES: N69925/W80654 (Center of crib)

SITE DESCRIPTION:

Crib - 84 ft. X 16 ft. bottom surface, with a 4 in. pipe entering the south end, 1 ft. below grade.

SERVICE DATES: 1950-1968

SERVICE HISTORY:

From 1950 to 1968 the site received low level fission product wastes from the contaminated maintenance shop and cask decontamination pad in the 108 Buildings. The site was retired in 1967.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-295-CN

Drawings: H-3-57210, G-7-215, H-1-4049, H-1-1595

SITE ID NO.: 116-B-5

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	10000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	189.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.03710	EU-152:	0.09200
NI-63:	0.00000	EU-154:	0.02320
KR-85:	0.00000	EU-155:	0.00022
SR-90:	0.00115	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00002
SB-125:	0.00000	U-238:	0.00277
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00094	BETA:	0.00000
CS-137:	0.00207	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-B-6-1

ALIAS: 111-B Crib #1
STATUS: Inactive
DIMENSIONS:
Length: 12 ft
Width: 8 ft
Depth: 6 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 459 ft
WATERTABLE: 61 ft
HRS Migration Score: 16.220

LOCATION: 100-B/C
COORDINATES: N68620/W80363

SITE DESCRIPTION:

Crib, with a bottom surface area of 12 ft. X 8 ft.

SERVICE DATES: 1951-1968

SERVICE HISTORY:

From 1951 to 1968, the site received radioactive wastes from equipment decontamination, 111-B Building, and liquid wastes from fuel element spacer decontamination (performed at 111-B Building decontamination station). The site was retired in 1968.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121
Photographs: 122440-404-CN
Drawings: H-3-57210, G-7-215, H-1-4049

SITE ID NO.: 116-B-6-1

CHEMICALS DISPOSED

SODIUM DICHROMATE:	50.000 kg
SODIUM OXYLATE:	100 kg
SODIUM SULFAMATE:	100 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	5000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00219	EU-152:	0.00006
NI-63:	0.00000	EU-154:	0.00013
KR-85:	0.00000	EU-155:	0.00231
SR-90:	0.90000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00180
ZR-95:	0.00000	PU-240:	0.00020
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00088
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.14900	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-B-6-2

ALIAS: 111-B Crib #2

STATUS: Inactive

DIMENSIONS:

Length: 12 ft

Width: 8 ft

Depth: 6 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 459 ft

WATERTABLE: 61 ft

HRS Migration Score: 16.220

LOCATION: 100-B/C

COORDINATES: N68549/W80335

SITE DESCRIPTION:

Crib, with a bottom surface area of 12 ft. x 8 ft.

SERVICE DATES: 1950-1953

SERVICE HISTORY:

From 1950 to 1953, the site received radioactive wastes from equipment decontamination, 111-B Building, and liquid wastes from fuel element spacer decontamination (performed at the 111-B Building decontamination station). The site was retired in 1953.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-406-CN

Drawings: H-3-57210, G-7-215, H-1-4049

SITE ID NO.: 116-B-6-2

CHEMICALS DISPOSED

SODIUM DICHROMATE:	50.000 kg
SODIUM OXYLATE:	100 kg
SODIUM SULFAMATE:	100 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	5000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00756	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00001	EU-152:	0.00016
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00004
SR-90:	0.00019	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00001
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00021	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-B-9

ALIAS: 104-B-2 French Drain

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 3 ft

Diameter: 4 ft

FACILITY: French Drain

ELEVATION: 461 ft

WATERTABLE: 61 ft

HRS Migration Score: 0.000

LOCATION: 100-B/C

COORDINATES: N69743/W80728

SITE DESCRIPTION:

A French Drain, 3 ft. in diameter, 4 ft. deep.

SERVICE DATES: 1952-1954

SERVICE HISTORY:

From 1952 to 1954, the site received waste water from the P-10 Storage Building drain.

REFERENCES:

Documents: HW-43121

Photographs: 122440-400-CN

Drawings: H-3-57210, G-7-215, H-1-4049

SITE ID NO.: 116-B-9

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	40000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 116-B-10

ALIAS: 108-B Dry Well, Quench Tank

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 7 ft

Diameter: 3 ft

FACILITY: Dry Well

ELEVATION: 461 ft

WATERTABLE: 61 ft

HRS Migration Score: 0.000

LOCATION: 100-B

COORDINATES: N69674/W80722

SITE DESCRIPTION:

A 3 ft. diameter drain tile mounted on a concrete pad and covered with a man hole cover which received liquid waste discharged by overflow to a 6 in. process sewer at a point 3 ft. from the bottom of the well.

SERVICE DATES: 1950-1968

SERVICE HISTORY:

Received liquid decontamination wastes from the 108-B tube exam and experimental facility.

REFERENCES:

Documents:

Photographs: 122440-401-CN

Drawings: H-3-57210

SITE ID NO.: 116-B-10

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000	kg
SODIUM OXYLATE:	0	kg
SODIUM SULFAMATE:	0	kg
AMMONIUM:	0	kg
COPPER SULFATE:	0	kg
SODIUM HYDROXIDE:	0	kg
SULFURIC ACID:	0	kg
SULFAMIC ACID:	0	kg
POTASSIUM BORATE:	0	kg
TOTAL VOLUME DISPOSED:	5000000	Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 118-B-1

ALIAS: 105-B Burial Ground

STATUS: Inactive

DIMENSIONS:

Length: 1000 f

Width: 321 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 479 ft

WATERTABLE: 81 ft

HRS Migration Score: 4.557

LOCATION: 100-B/C

COORDINATES: N67000/W83500

SITE DESCRIPTION:

This burial ground consists of twenty-one trenches running east-west, three trenches running north-south, and three spacer pits shored with railroad ties and spline silos. Spline silos were metal culverts with a 5-6 ft. radius. The trenches are usually 300 ft. long x 20 ft. wide x 20 ft. deep with a 20 ft. space between them.

SERVICE DATES: 1944-1973

SERVICE HISTORY:

The spline silos received metallic wastes. The trenches received general reactor waste from 100-B and 100-N Reactors.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121, HW-77274

Photographs: 122440-309-CN

Drawings: H-3-57210, M-1600-B #8, H-1-4049, G-7-215

SITE ID NO.: 118-B-1

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	200 cubic meters
MASS:	100000 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	100000 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	10000 cubic meters
MASS:	1000000 kg
TOTAL WASTE MASS:	1000000 kg
TOTAL WASTE VOLUME:	10000 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	3800.00000	CE-144:	0.00000
C-14:	0.66000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	886.00000	EU-152:	16.50000
NI-63:	96.60000	EU-154:	30.20000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1.50000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	1.50000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-B-1

METALLIC WASTE

ALUMINIUM TUBES:	16783.0 kg
ALUMINUM SPACERS:	41730.0 kg
LEAD-CADMIUM POISON SLUGS	
Lead:	89040.0 kg
Cadmium:	3719.0 kg
GRAPHITE:	291.0 kg
DESICCANT:	14.0 kg
ALUMINIUM POISON SLUGS:	6395.0 kg
BORON POISON SPLINES:	862.0 kg
LEAD:	18143.0 kg
MERCURY:	0.9 kg
MISCELLANEOUS METTALIC WASTE:	15422.0 kg

SITE ID NO.: 118-B-2

ALIAS: Construction Burial Ground #1

STATUS: Inactive

DIMENSIONS:

Length: 60 ft

Width: 30 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 456 ft

WATERTABLE: 57 ft

HRS Migration Score: 3.038

LOCATION: 100-B/C

COORDINATES: N69300/80050

SITE DESCRIPTION:

A burial ground containing a trench running east and west, 30 ft. x 60 ft. The trench is covered with a minimum of 4 ft. of soil.

SERVICE DATES: 1954-1956

SERVICE HISTORY:

The burial ground was used for disposal of dry waste from 107-B basin repairs work and for wastes from 115-B alterations by minor construction.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-297-CN, 122440-303-CN

Drawings: H-3-57210, H-1-4049, G-7-215

SITE ID NO.: 118-B-2

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
CONSTRUCTION WASTE	
VOLUME:	100 cubic meters
MASS:	0 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	80000 kg
TOTAL WASTE VOLUME:	100 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	1.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-B-3

ALIAS: Construction Burial Ground #2

STATUS: Inactive

DIMENSIONS:

Length: 350 ft

Width: 275 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 456 ft

WATERTABLE: 57 ft

HRS Migration Score: 3.038

LOCATION: 100-B/C

COORDINATES: N69300/W79800

SITE DESCRIPTION:

A burial ground containing many trenches running east-west. Site dimensions are 350 ft. x 275 ft. and has been covered with a minimum of 4 ft. of soil.

SERVICE DATES: 1956-1960

SERVICE HISTORY:

The burial ground was used initially for the disposal of solid waste from the effluent line modification, and for disposal of reactor generated solid waste during various modification programs.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-302-CN

Drawings: H-3-57210, G-7-215, H-1-4049

SITE ID NO.: 118-B-3

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
CONSTRUCTION WASTE	
VOLUME:	5000 cubic meters
MASS:	0 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	4000000 kg
TOTAL WASTE VOLUME:	5000 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	1.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-B-4

ALIAS: 105-B Spacer Burial Ground

STATUS: Inactive

DIMENSIONS:

Length: 100 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 456 ft

WATERTABLE: 57 ft

HRS Migration Score: 3.038

LOCATION: 100-B/C

COORDINATES: N69425/W80200 (Center of burial ground)

SITE DESCRIPTION:

Six dummy storage pits, 50 ft. x 30 ft. area, installed below ground. The pits are constructed of metal culverts 15 ft. deep and 6 ft. in diameter.

SERVICE DATES: 1956-1968

SERVICE HISTORY:

The burial ground was used for disposal of fuel spacers.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-304-CN

Drawings: H-3-57210, H-1-4049, G-7-215

SITE ID NO.: 118-B-4

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	30 cubic meters
MASS:	20000 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	20000 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	20000 kg
TOTAL WASTE VOLUME:	30 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	1.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-B-5

ALIAS: Ball 3X Burial Ground
STATUS: Inactive
DIMENSIONS:
Length: 50 ft
Width: 50 ft
Depth: 20 ft
Diameter: 0 ft

FACILITY: Burial Ground
ELEVATION: 456 ft
WATERTABLE: 57 ft
HRS Migration Score: 3.038

LOCATION: 100-B/C
COORDINATES: N68700/W80400

SITE DESCRIPTION:

A burial ground containing a trench, 50 ft. x 50 ft. The site was covered with 5 ft. of soil.

SERVICE DATES: 1953-1953

SERVICE HISTORY:

The burial ground was used for highly contaminated wastes such as old thimbles, step plugs, etc. that were removed from 105-B Building for the Ball 3X work in 1953.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121
Photographs: 122440-300-CN, 122440-301-CN
Drawings: H-3-57210, H-1-4049, G-7-215

SITE ID NO.: 118-B-5

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	40 cubic meters
MASS:	20000 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	20000 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	20000 kg
TOTAL WASTE VOLUME:	40 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	1.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-B-6

ALIAS: 108-B Solid Waste Burial Ground
STATUS: Inactive
DIMENSIONS:
Length: 40 ft
Width: 40 ft
Depth: 20 ft
Diameter: 0 ft

FACILITY: Burial Ground
ELEVATION: 456 ft
WATERTABLE: 57 ft
HRS Migration Score: 6.046

LOCATION: 100-B/C
COORDINATES: N69500/W80500

SITE DESCRIPTION:

Two concrete pipes, 18 ft. long and 6 ft. in diameter, were buried vertically in the ground within an area of 40 ft. x 40 ft. Light metal cap over pipes in concrete pad.

SERVICE DATES: 1950-1953

SERVICE HISTORY:

The burial ground was used for the disposal of tritium wastes.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121
Photographs: 122440-296-CN
Drawings: H-3-57210, H-1-4049, G-7-215

SITE ID NO.: 118-B-6

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
LABORATORY/OTHER WASTE	
VOLUME:	10 cubic meters
MASS:	10000 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	10000 kg
TOTAL WASTE VOLUME:	10 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	1000.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-B-7

ALIAS: 111-B Solid Waste Burial Site

STATUS: Inactive

DIMENSIONS:

Length: 8 ft

Width: 8 ft

Depth: 8 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 459 ft

WATERTABLE: 61 ft

HRS Migration Score: 3.038

LOCATION: 100-B

COORDINATES: N68580/W80363

SITE DESCRIPTION:

A burial ground 8 ft. long x 8 ft. wide and 8 ft. deep which is adjacent to and just north of the 111-B Decontamination Station. A concrete marker identifies the site.

SERVICE DATES: 1951-1968

SERVICE HISTORY:

Received miscellaneous solid waste (decontamination materials and associated equipment).

REFERENCES:

Documents:

Photographs:

Drawings: H-3-57210

SITE ID NO.: 118-B-7

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	0 kg
TOTAL WASTE VOLUME:	0 cubic meters

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	1.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 117-B

ALIAS: None
STATUS: Inactive
DIMENSIONS:
Length: 10 ft
Width: 10 ft
Depth: 10 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 456 ft
WATERTABLE: 58 ft
HRS Migration Score: 0.000

LOCATION: 100-B/C
COORDINATES: N69100/W80600

SITE DESCRIPTION:

A small crib, 10 ft. x 10 ft. and filled with gravel, covered to grade with clean soil.

SERVICE DATES: 1961-1968

SERVICE HISTORY:

From 1961 to 1968, the site received drainage from the confinement system in the 117 Building seal pits. The site was retired in 1968. When this site was sampled in 1978, it was found not to contain contamination above background levels.

REFERENCES:

Documents: UNI-946
Photographs: 122440-299-CN
Drawings: H-3-57210

SITE ID NO.: 117-B

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	420000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site has been released from radiation zone status.

These values are decayed through April 1, 1986.

SITE ID NO.: 107-B

STATUS: Inactive

DIMENSIONS:

Length: 450 feet
Width: 230 feet
Depth: 24 feet
Diameter:

FACILITY: Retention Basin

ELEVATION: 440 feet

WATERTABLE: 40 feet

HRS Migration Score: 76.910

LOCATION: 100-B/C

COORDINATES: N71660/W80560, N71660/W80090, N71430/W80560, N71430/W80090

DESCRIPTION OF FACILITY:

Concrete lined basin, 230 ft. x 467 ft., with a vertical baffle down the middle (lengthwise). The floor of the basin consists of concrete slabs, their joints originally closed with neoprene water seals. To a height of almost 10 ft. above the floor, the walls slope and are about 4 inches thick. The upper sections of the walls (about 10 ft) area vertical and range in thickness from about 5'8" at the bottom to one foot at the top.

The basin has been backfilled with soil to a depth of almost four feet.

DATE OF OPERATIONS: 1944 - 1968

DESCRIPTION OF WASTE:

Retained cooling water effluent from the 105 reactor for radioactive decay and thermal cooling prior to release to the Columbia River. Total radionuclide inventories in the vicinity of the basins ranged from 5 to over 400 curies. 80% of the total radionuclide inventory is contained within the soil adjacent to the basins. Approximately 10 curies have leached into the concrete floor and walls.

UNPLANNED RELEASES:

The following is a summary of unplanned releases in the basin area:

- In early 1952, gross leakage at the inlet for the 105-B effluent line was detected and steadily increased in volume.
- In late 1952, two known leaks from the effluent line occurred: (1) near the #2 diversion box for the 30" line and (2) near the 8" riser for the temporary by-pass line northeast of the 105-B Building.
- In February, 1954, a break occurred in the 107-B Basin.

EXTENT OF CONTAMINATION:

The extent of the contamination from these releases is well within the zone encompassed by the retention basin and is within

the AC-5-40 permanent posting.

REFERENCES:

Documents: UNI-946

Photographs: 122440-228-CN

Drawings: H-1-4049

SITE ID NO.: 116-C-1

ALIAS: 107-C Liquid Waste Disposal Trench

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 50 ft

Depth: 25 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 441 ft

WATERTABLE: 41 ft

HRS Migration Score: 42.320

LOCATION: 100-B/C

COORDINATES: N71560/W79030, N71730/W78551 (Center line)

SITE DESCRIPTION:

Trench, with 50 ft. X 500 ft. bottom dimensions and a 24 in. line entering the southwest end, 20 ft. below grade.

SERVICE DATES: 1952-1968

SERVICE HISTORY:

From 1952 to 1968 the site received effluent overflow from the 107-C retention basin at times of high activity due to fuel element failure. The site was retired in 1968.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-286-CN

Drawings: H-3-57210, G-7-215, H-1-4049

SITE ID NO.: 116-C-1

CHEMICALS DISPOSED

SODIUM DICHROMATE:	100.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	10000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.88100	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	108.00000	EU-152:	151.00000
NI-63:	0.00000	EU-154:	61.70000
KR-85:	0.00000	EU-155:	0.37900
SR-90:	1.64000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.11700
ZR-95:	0.00000	PU-240:	0.01300
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00031
SB-125:	0.00000	U-238:	0.03560
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.02500	BETA:	0.00000
CS-137:	5.79000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-C-2

ALIAS: 105-C Pluto Crib

STATUS: Inactive

DIMENSIONS:

Length: 140 ft

Width: 100 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 493 ft

WATERTABLE: 94 ft

HRS Migration Score: 42.320

LOCATION: 100-B/C

COORDINATES: N67501/W79962 (Center of crib)

SITE DESCRIPTION:

A crib, 140 ft. x 100 ft, with gravel and sand fill.

SERVICE DATES: 1952-1968

SERVICE HISTORY:

From 1952 to 1968 the site received an unknown volume of contaminated wastes from the decontamination of dummy fuel elements on wash pad, contaminated water from 105-C irradiated fuel examining facilities, and 105-C reactor rear face liquid wastes. The site was retired in 1968 and covered with 12-15 ft. of soil.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-308-CN, 409, 410

Drawings: H-3-57210, G-7-215, H-1-4049

SITE ID NO.: 116-C-2

CHEMICALS DISPOSED

SODIUM DICHROMATE:	990.000 kg
SODIUM OXYLATE:	2100 kg
SODIUM SULFAMATE:	6600 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	7500000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.31500	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01320	EU-152:	0.00920
NI-63:	0.00000	EU-154:	0.00049
KR-85:	0.00000	EU-155:	0.00442
SR-90:	0.98200	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00099
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00001	BETA:	0.00000
CS-137:	0.00083	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-C-2-2

ALIAS: 105-C Pluto Crib Sandfilter

STATUS: Inactive

DIMENSIONS:

Length: 23 ft

Width: 16 ft

Depth: 6 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 493 ft

WATERTABLE: 94 ft

HRS Migration Score: 0.000

LOCATION: 100-B/C

COORDINATES: N67474/W80052

SITE DESCRIPTION:

A sand filter with a crib type structure. It is a 16 ft. X 23 ft. X 6 ft. deep open bottomed concrete box placed in a sand and gravel pit. Contaminated water was spread over the surface of the sand filter media by distribution trays.

SERVICE DATES: 1952-1969

SERVICE HISTORY:

From 1952 to 1968 the site received contaminated wastes from decontamination of dummy fuel elements on wash pad and effluents from 105-C fuel irradiated fuel examination facility. Effluent passed through this filter prior to being discharged to the soil column of the 116-C-2 Crib. The site was retired in 1968 and covered with concrete lids.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-306-CN

Drawings: H-3-57210, G-7-215

SITE ID NO.: 116-C-2-2

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	7500000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.28300	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	77.60000	EU-152:	5.19000
NI-63:	0.00000	EU-154:	0.31400
KR-85:	0.00000	EU-155:	2.12000
SR-90:	1.80000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.11200
NB-95:	0.00000	PU-239:	0.10800
ZR-95:	0.00000	PU-240:	0.01200
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.12000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.02440	BETA:	0.00000
CS-137:	8.27000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-C-1

ALIAS: 105-C Burial Ground

STATUS: Inactive

DIMENSIONS:

Length: 510 ft

Width: 400 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 479 ft

WATERTABLE: 80 ft

HRS Migration Score: 4.557

LOCATION: 100-B/C

COORDINATES: N67316/W80005, N67316/W79748, N67249/W79494, N66920/W79494

SITE DESCRIPTION:

A burial ground containing many trenches running north and south, and six pits (10 ft. x 10 ft.). The site dimensions are 510 ft. x 400 ft. The trenches were usually 300 ft. x 200 ft. x 20 ft. with a 20 ft. space between each trench.

SERVICE DATES: 1953-1969

SERVICE HISTORY:

The burial ground was used for miscellaneous solid waste from 105-C Building, which includes process tubes, aluminum spacers, control rods, soft waste, and reactor hardware.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-307-CN

Drawings: H-3-57210, H-1-15394, H-1-15234, H-1-4049, G-7-215

SITE ID NO.: 118-C-1

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	10000 cubic meters
MASS:	1000000 kg
TOTAL WASTE MASS:	1000000 kg
TOTAL WASTE VOLUME:	10000 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	8.50000	CE-144:	0.00000
C-14:	3.64000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	571.00000	EU-152:	14.20000
NI-63:	62.60000	EU-154:	26.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1.30000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	1.30000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-C-1

METALLIC WASTE

ALUMINIUM TUBES:	16783.0 kg
ALUMINUM SPACERS:	41730.0 kg
LEAD-CADMIUM POISON SLUGS	
Lead:	89040.0 kg
Cadmium:	3719.0 kg
GRAPHITE:	291.0 kg
DESICCANT:	14.0 kg
ALUMINIUM POISON SLUGS:	6395.0 kg
BORON POISON SPLINES:	862.0 kg
LEAD:	18143.0 kg
MERCURY:	0.0 kg
MISCELLANEOUS METTALIC WASTE:	15422.0 kg

SITE ID NO.: 118-C-2

ALIAS: 105-C Ball Storage Tank

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 5 ft

Diameter: 6 ft

FACILITY: Burial Vault

ELEVATION: 493 ft

WATERTABLE: 94 ft

HRS Migration Score: 0.000

LOCATION: 100-C

COORDINATES: N67590/W80333

SITE DESCRIPTION:

Tank is buried in ground and has two visible standpipes as well as a shielding mound about two feet above ground level.

SERVICE DATES: 1969-1969

SERVICE HISTORY:

Highly irradiated boron steel balls were stored in tank for radioactive decay and subsequent burial. At the present time, the waste is still buried in the tank.

REFERENCES:

Documents: DUN-7623

Photographs:

Drawings: H-3-57210

SITE ID NO.: 118-C-2

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	0 kg
TOTAL WASTE VOLUME:	0 cubic meters

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	80.00000	EU-152:	0.00000
NI-63:	1.60000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 100 B/C Burning Pit

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 100 ft

Width: 100 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Burning Pit

ELEVATION: 441 ft

WATERTABLE: 41 ft

HRS Migration Score: 0.212

LOCATION: 100-B/C

COORDINATES: N71500/W78500

SITE DESCRIPTION:

A pit, 100 ft. x 100 ft. surface dimensions, 10 ft. deep, which was covered over in 1978.

SERVICE DATES: 1943-1968

SERVICE HISTORY:

From 1943 to 1968, the site was used, for the disposal of non-radioactive combustibile materials, such as paint waste, office waste and chemical solvents.

REFERENCES:

Documents: UNI-946

Photographs: 122440-412-CN

Drawings: H-3-57210, G-7-215

SITE ID NO.: 100 B/C Burning Pit

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	0 kg
TOTAL WASTE VOLUME:	40000 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: 107-C

STATUS: Inactive
DIMENSIONS:
Length:
Width:
Depth: 16 feet
Diameter: 330 feet

FACILITY: Retention Basins (2)
ELEVATION: 440 feet
WATERTABLE: 40 feet
HRS Migration Score: 76.910

LOCATION: 100-B/C
COORDINATES: N-71045/W-79970, N-71045/W-80320

DESCRIPTION OF FACILITY:

Two carbon steel tanks, each 330 feet in diameter and 16 feet deep. Each has a series of steel baffle plates inside to prevent water from channeling across the tank into the discharge line. Both tanks have been backfilled with soil to a depth of about four feet.

DATE OF OPERATIONS: 1942 - 1969

DESCRIPTION OF WASTE:

Retained cooling water effluent from the 105 reactor for radioactive decay and thermal cooling prior to release to the Columbia River. Total radionuclide inventories in the vicinity of the basins ranged from 5 to over 400 curies. 80% of the total radionuclide inventory is contained within the soil adjacent to the basins. Approximately 10 curies have leached into the concrete floor and walls.

UNPLANNED RELEASES:

The basin and its approximate 5 foot diameter effluent line has developed leaks during its operating life. It has been said the leaks could have been as high as 5,000 - 10,000 gallons per minute.

EXTENT OF CONTAMINATION:

The extent of the contamination from these releases is well within the zone encompassed by the retention basin and is within the AC-5-40 permanent posting.

REFERENCES:

Documents: UNI-946
Photographs:
Drawings: H-1-15394

SITE ID NO.: 116-D-1A

ALIAS: 105-D Storage Basin Trench #1

STATUS: Inactive

DIMENSIONS:

Length: 130 ft

Width: 10 ft

Depth: 6 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 468 ft

WATERTABLE: 83 ft

HRS Migration Score: 9.125

LOCATION: 100-D/DR

COORDINATES: N92230/W52480

SITE DESCRIPTION:

Trench, with a bottom surface area of 130 ft. x 10 ft.

SERVICE DATES: 1947-1952

SERVICE HISTORY:

From 1947 to 1952 the site received contaminated water and sludge from 105-D storage basin. The site was retired in 1952 and covered with 6 ft. of soil.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-332-CN

Drawings: H-3-57210, G-7-216, H-1-4046, H-1-15246, H-1-15449

SITE ID NO.: 116-D-1A

CHEMICALS DISPOSED

SODIUM DICHROMATE:	1000.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	200000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.88100	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.13800	EU-152:	0.72300
NI-63:	0.00000	EU-154:	0.11300
KR-85:	0.00000	EU-155:	0.03470
SR-90:	0.12300	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.01800
ZR-95:	0.00000	PU-240:	0.00200
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00003
SB-125:	0.00000	U-238:	0.00376
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00061	BETA:	0.00000
CS-137:	1.08000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-D-1B

ALIAS: 105-D Storage Basin Trench #2

STATUS: Inactive

DIMENSIONS:

Length: 100 ft

Width: 10 ft

Depth: 15 ft

Diameter:

FACILITY: Trench

ELEVATION: 468 ft

WATERTABLE: 83 ft

HRS Migration Score: 42.320

LOCATION: 100-D/DR

COORDINATES: N92300/W52570

SITE DESCRIPTION:

Trench, with bottom dimensions of 100 ft. x 10 ft.

SERVICE DATES: 1953-1967

SERVICE HISTORY:

From 1953 to 1967 the site received contaminated water sludge from 105-D Fuel Storage Basin. The site was retired in 1967 and covered with 6-15 ft. of soil.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-333-CN

Drawings: H-3-57210, G-7-216, H-1-4046, H-1-15449

SITE ID NO.: 116-D-1B

CHEMICALS DISPOSED

SODIUM DICHROMATE:	700.000 kg
SODIUM OXYLATE:	2000 kg
SODIUM SULFAMATE:	2000 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	8000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.12600	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.06750	EU-152:	0.28300
NI-63:	0.00000	EU-154:	0.04270
KR-85:	0.00000	EU-155:	0.27800
SR-90:	0.16400	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00603
ZR-95:	0.00000	PU-240:	0.00067
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00002
SB-125:	0.00000	U-238:	0.00248
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00031	BETA:	0.00000
CS-137:	0.51300	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-D-2

ALIAS: 105-D Pluto Crib

STATUS: Inactive

DIMENSIONS:

Length: 10 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 466 ft

WATERTABLE: 78 ft

HRS Migration Score: 9.125

LOCATION: 100-D/DR

COORDINATES: N91970/W52610

SITE DESCRIPTION:

A crib, 10 ft. x 10 ft., with sand fill and shored with railroad ties.

SERVICE DATES: 1950-1956

SERVICE HISTORY:

From 1950 to 1956, the site received effluent from tubes containing failed fuel elements. In 1956, the site was retired and covered to grade with clean soil. Sampling of this crib did not reveal contamination above background level. However, there is a strong possibility the correct location of the crib was never found.

REFERENCES:

Documents: HW-55176

Photographs: 122440-336-CN

Drawings: H-3-57210, G-7-216, H-1-4046

SITE ID NO.: 116-D-2

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.004 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	4000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 116-D-3

ALIAS: 108-D Crib #1
STATUS: Inactive
DIMENSIONS:
Length: 0 ft
Width: 0 ft
Depth: 5 ft
Diameter: 3 ft

FACILITY: French Drain
ELEVATION: 461 ft
WATERTABLE: 80 ft
HRS Migration Score: 8.644

LOCATION: 100-D/DR
COORDINATES: N92780/W52780 (Center of Drain)

SITE DESCRIPTION:

French drain, 3 ft. in diameter, 5 ft. deep.

SERVICE DATES: 1951-1967

SERVICE HISTORY:

From 1951 to 1967 the site received low level fission product wastes from the contaminated maintenance shop and cask decontamination pad in the 108 Buildings. The site was retired in 1967.

REFERENCES:

Documents: HW-55176, HW-33305, HW-43121
Photographs: 122440-337-CN
Drawings: H-3-57210, M-1600-D #5, G-7-216

SITE ID NO.: 116-D-3

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	30000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.08180
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-D-4

ALIAS: 108-D Crib #2
STATUS: Inactive
DIMENSIONS:
Length: 0 ft
Width: 0 ft
Depth: 5 ft
Diameter: 3 ft

FACILITY: French Drain
ELEVATION: 461 ft
WATERTABLE: 80 ft
HRS Migration Score: 8.644

LOCATION: 100-D/DR
COORDINATES: N92300/W52620 (Center of crib)

SITE DESCRIPTION:

French drain, 3 ft. in diameter, 5 ft. deep.

SERVICE DATES: 1956-1957

SERVICE HISTORY:

From 1956 to 1957 the site received low level fission product wastes from the contaminated maintenance shop and cask decontamination pad in the 108 Buildings. The site was retired in 1967.

REFERENCES:

Documents: HW-55176, UNI-946
Photographs: 122440-338-CN
Drawings: H-3-57210, G-7-216

SITE ID NO.: 116-D-4

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	30000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.08180
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-D-6

ALIAS: 105-D Cushion Corridor French Drain

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 3 ft

Diameter: 3 ft

FACILITY: French Drain

ELEVATION: 461 ft

WATERTABLE: 83 ft

HRS Migration Score: 0.000

LOCATION: 100-D/DR

COORDINATES: N92300/W52720

SITE DESCRIPTION:

A French Drain, 3 ft. in diameter, 3 ft. deep.

SERVICE DATES: 1961-1967

SERVICE HISTORY:

From 1961 to 1967, the site received domestic water from the changing room, and water from the mask decontamination station.

REFERENCES:

Documents: HW-43121

Photographs: 122440-424-CN

Drawings: H-3-57210

SITE ID NO.: 116-D-6

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	100000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 118-D-1

ALIAS: 100-D Burial Ground #1

STATUS: Inactive

DIMENSIONS:

Length: 450 ft

Width: 375 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 460 ft

WATERTABLE: 72 ft

HRS Migration Score: 1.837

LOCATION: 100-D/DR

COORDINATES: N90380/W53205, N90380/W52755, N90005/W52755, N90005/W53205

SITE DESCRIPTION:

A burial ground containing many trenches running north and south. The site is 450 ft. wide x 375 ft. long. The trenches are generally 300 ft. long x 20 ft. wide and 20 ft. deep with a 20 ft. space between them.

SERVICE DATES: 1944-1967

SERVICE HISTORY:

The burial ground was used for the disposal of irradiated dummies, thimbles, rods, gun barrels, and other contaminated solid waste.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-326-CN

Drawings: H-3-57210, H-1-15395, H-1-14897, H-1-15449, H-1-4049, G-7-216

SITE ID NO.: 118-D-1

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	100 cubic meters
MASS:	60000 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	60000 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	10000 cubic meters
MASS:	1000000 kg
TOTAL WASTE MASS:	1000000 kg
TOTAL WASTE VOLUME:	10000 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	1.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-D-2

ALIAS: 100-D Burial Ground #2
STATUS: Inactive
DIMENSIONS:
Length: 1000 f
Width: 360 ft
Depth: 20 ft
Diameter: 0 ft

FACILITY: Burial Ground
ELEVATION: 464 ft
WATERTABLE: 76 ft
HRS Migration Score: 2.755

LOCATION: 100-D/DR
COORDINATES: N90582/W55652, N90582/W55295, N89493/55295, N89500/W55652

SITE DESCRIPTION:

A burial ground containing many trenches running east-west and five disposal pits contained within an area of 1000 ft. x 357 ft. The trenches are 66 ft. wide at the surface, 20 ft. wide at the bottom, and is 20 ft. deep. Each pit site is composed of two small pits together constructed with railroad ties, with interior dimensions of approx. 6 ft. x 6 ft., placed within an excavation 24 ft. wide x 24 ft. deep. All were covered with 6 ft. of soil.

SERVICE DATES: 1949-1970

SERVICE HISTORY:

The burial ground was used for miscellaneous contaminated solid waste, irradiated dummies, splines, rods, thimbles, and gun barrels. After April 1966, 100-N Area solid wastes were also buried here.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121
Photographs: 122440-325-CN
Drawings: H-3-57210, H-1-15395, H-1-15246, H-1-4046, G-7-216

SITE ID NO.: 118-D-2

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	10000 cubic meters
MASS:	1000000 kg
TOTAL WASTE MASS:	1000000 kg
TOTAL WASTE VOLUME:	10000 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	3.50000	CE-144:	0.00000
C-14:	0.66000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	849.00000	EU-152:	16.30000
NI-63:	92.40000	EU-154:	27.90000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1.50000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	1.50000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-D-2

METALLIC WASTE

ALUMINIUM TUBES:	16329.0 kg
ALUMINUM SPACERS:	36287.0 kg
LEAD-CADMIUM POISON SLUGS	
Lead:	89040.0 kg
Cadmium:	3719.0 kg
GRAPHITE:	54.0 kg
DESICCANT:	14.0 kg
ALUMINIUM POISON SLUGS:	5987.0 kg
BORON POISON SPLINES:	816.0 kg
LEAD:	58966.0 kg
MERCURY:	0.0 kg
MISCELLANEOUS METTALIC WASTE:	16329.0 kg

SITE ID NO.: 118-D-3

ALIAS: 100-D Burial Ground #3

STATUS: Inactive

DIMENSIONS:

Length: 1000 f

Width: 250 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 460 ft

WATERTABLE: 72 ft

HRS Migration Score: 2.755

LOCATION: 100-D/DR

COORDINATES: N91222/W52543, N91473/W51950, N91265/W51430, N91224/52099

SITE DESCRIPTION:

Burial ground, approximately 1000 ft. long x 250 ft. wide, with a trench running north-south. Generally trenches were 200 ft. long x 20 ft. wide and 20 ft. deep. The spacing between trenches was not uniform.

SERVICE DATES: 1956-1973

SERVICE HISTORY:

This burial ground contains miscellaneous contaminated solid wastes and irradiated dummies, splines, rods, thimbles and gun barrels. It was also sued for disposal of 100-N solid wastes.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-331-CN

Drawings: H-3-57210, H-1-15395, H-1-15246, G-7-216

SITE ID NO.: 118-D-3

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	100 cubic meters
MASS:	70000 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	70000 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	70000 kg
TOTAL WASTE VOLUME:	100 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	3.50000	CE-144:	0.00000
C-14:	0.66000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	590.00000	EU-152:	14.70000
NI-63:	51.80000	EU-154:	26.40000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1.13000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	1.13000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-D-3

METALLIC WASTE

ALUMINIUM TUBES:	16329.0 kg
ALUMINUM SPACERS:	36287.0 kg
LEAD-CADMIUM POISON SLUGS	
Lead:	89040.0 kg
Cadmium:	3719.0 kg
GRAPHITE:	54.0 kg
DESICCANT:	14.0 kg
ALUMINIUM POISON SLUGS:	5987.0 kg
BORON POISON SPLINES:	816.0 kg
LEAD:	58966.0 kg
MERCURY:	0.0 kg
MISCELLANEOUS METTALIC WASTE:	16329.0 kg

SITE ID NO.: 118-D-4

ALIAS: Construction Burial Ground

STATUS: Inactive

DIMENSIONS:

Length: 600 ft

Width: 200 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 464 ft

WATERTABLE: 76 ft

HRS Migration Score: 1.837

LOCATION: 100-D/DR

COORDINATES: N91900/W52100 (Center)

SITE DESCRIPTION:

A burial ground containing many trenches in an area about 600 ft. x 200 ft. The dimensions of each trench are not uniform.

SERVICE DATES: 1953-1967

SERVICE HISTORY:

This burial ground contains contaminated material from the 105-D Reactor Building generated during various reactor modifications consisting mostly of reactor components and hardware.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-335-CN

Drawings: H-3-57210, H-1-15395, H-1-15246, G-7-216

SITE ID NO.: 118-D-4

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
CONSTRUCTION WASTE	
VOLUME:	20000 cubic meters
MASS:	0 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	10000000 kg
TOTAL WASTE VOLUME:	20000 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	1.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-D-5

ALIAS: Ball 3X Burial Ground
STATUS: Inactive
DIMENSIONS:
Length: 20 ft
Width: 20 ft
Depth: 10 ft
Diameter: 0 ft

FACILITY: Burial Ground
ELEVATION: 460 ft
WATERTABLE: 72 ft
HRS Migration Score: 1.837

LOCATION: 100-D/DR
COORDINATES: N90900/W52750 (Center)

SITE DESCRIPTION:

A burial ground, with a trench measuring 20 ft. x 20 ft.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

This burial ground contains the thimbles removed from the 105-DR Reactor during the Ball 3X work in 1954.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121
Photographs: 122440-330-CN
Drawings: H-3-57210, G-7-216

SITE ID NO.: 118-D-5

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	10 cubic meters
MASS:	6000 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	6000 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	6000 kg
TOTAL WASTE VOLUME:	10 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	1.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 117-D

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 10 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 458 ft

WATERTABLE: 72 ft

HRS Migration Score: 0.000

LOCATION: 100-D/DR

COORDINATES: N92053/W52532 (Center of crib)

SITE DESCRIPTION:

A small crib, 10 ft. x 10 ft. and filled with gravel, covered to grade with clean soil.

SERVICE DATES: 1960-1967

SERVICE HISTORY:

From 1960 to 1967 the site received drainage from confinement system 117 Building seal pits. The site was retired in 1967. When this site was sampled in 1978, it was found not to contain contamination above background level.

REFERENCES:

Documents: UNI-946

Photographs: 122440-334-CN

Drawings: H-3-57210

SITE ID NO.: 117-D

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000	kg
SODIUM OXYLATE:	0	kg
SODIUM SULFAMATE:	0	kg
AMMONIUM:	0	kg
COPPER SULFATE:	0	kg
SODIUM HYDROXIDE:	0	kg
SULFURIC ACID:	0	kg
SULFAMIC ACID:	0	kg
POTASSIUM BORATE:	0	kg
TOTAL VOLUME DISPOSED:	420000	Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site has been released from radiation zone status.

These values are decayed through April 1, 1986.

SITE ID NO.: 107-D

STATUS: Inactive
DIMENSIONS:
Length: 450 feet
Width: 230 feet
Depth: 24 feet
Diameter:

FACILITY: Retention Basin
ELEVATION: 420 feet
WATERTABLE: 35 feet
HRS Migration Score: 76.910

LOCATION: 100 D-DR
COORDINATES: N-94455/W-52730 to N-94685/W-53250

DESCRIPTION OF FACILITY:

A concrete-lined basin, 230 ft. x 467 ft., with 20 foot walls. The design is about the same as 107-B. the basin has been backfilled to a depth of about 2 ft. The walls appear to be coated with asphalt.

DATE OF OPERATIONS: 1944 - 1967

DESCRIPTION OF WASTE:

Retained reactor cooling water effluent water from the 105 reactor for radioactive decay and thermal cooling prior to release to the Columbia River. Total radionuclide inventories in the vicinity of the basins ranged from 5 to over 400 curies. 70% of the total radionuclide inventory is contained within the soil adjacent to the basins. Approximately 10 curies have leached into the concrete floor and walls.

UNPLANNED RELEASES:

The following is a summary of unplanned releases in the basin area:

- In early 1950, leakage occurred on the north side between the basin and the river. Effluent water had drained under the road to the section between the road and the perimeter fence.
- In the fall of 1951, excess leakage was detected above ground. As a result, two excavations were made. The holes were then covered, but effluent water continued to seep to the surface.

EXTENT OF CONTAMINATION:

The extent of the contamination from these releases is well within the zone encompassed by the retention basin and is within the AC-5-40 permanent posting.

REFERENCES:

Documents: UNI-946
Photographs: 122440-344-CN
Drawings: H-1-14897

SITE ID NO.: 116-DR-1

ALIAS: 107-DR Liquid Waste Disposal Trench #1

STATUS: Inactive

DIMENSIONS:

Length: 300 ft

Width: 15 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 451 ft

WATERTABLE: 56 ft

HRS Migration Score: 42.320

LOCATION: 100-DR

COORDINATES: N94650/W51900

SITE DESCRIPTION:

Trench, 300 ft. x 15 ft surface dimensions, 20 feet deep.

SERVICE DATES: 1951-1967

SERVICE HISTORY:

From 1951 to 1967, the site received effluent overflow from the 107-D and 107-DR Retention Basin at times of high activity due to fuel element failure. The site was retired in 1967.

REFERENCES:

Documents: HW-43121, UNI-946

Photographs: 122440-340-CN

Drawings: H-3-57210, H-1-4046, M1600-D #8, H-1-8724-DR, G-7-216

SITE ID NO.: 116-DR-1

CHEMICALS DISPOSED

SODIUM DICHROMATE:	40.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	40000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.44700	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	1.08000	EU-152:	5.39000
NI-63:	0.00000	EU-154:	0.97800
KR-85:	0.00000	EU-155:	0.10700
SR-90:	0.30300	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.03150
ZR-95:	0.00000	PU-240:	0.00350
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00024
SB-125:	0.00000	U-238:	0.02780
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00225	BETA:	0.00000
CS-137:	13.20000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-DR-2

ALIAS: 107-DR Liquid Waste Disposal Trench #2

STATUS: Inactive

DIMENSIONS:

Length: 150 ft

Width: 10 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 452 ft

WATERTABLE: 56 ft

HRS Migration Score: 42.320

LOCATION: 100-DR

COORDINATES: N94100/W52600

SITE DESCRIPTION:

A trench 150 ft. x 10 ft. surface dimensions, 20 ft. deep.

SERVICE DATES: 1952-1967

SERVICE HISTORY:

From 1952 to 1967, the site received effluent overflow from the 107-D & DR Retention Basin at times of high activity due to fuel element failure. The site was retired in 1967.

REFERENCES:

Documents: HW-43121, HW-33305, UNI-946

Photographs: 12440-341-CN

Drawings: H-3-57210, H-1-4046, H-1-8724-DR, M-1600-D #8, G-7-216

SITE ID NO.: 116-DR-2

CHEMICALS DISPOSED

SODIUM DICHROMATE:	40.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	40000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.44700	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	1.08000	EU-152:	5.39000
NI-63:	0.00000	EU-154:	0.97800
KR-85:	0.00000	EU-155:	0.10700
SR-90:	0.30300	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.03150
ZR-95:	0.00000	PU-240:	0.00350
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00024
SB-125:	0.00000	U-238:	0.02780
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00225	BETA:	0.00000
CS-137:	13.20000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-DR-3

ALIAS: 105-DR Storage Basin Trench

STATUS: Inactive

DIMENSIONS:

Length: 60 ft

Width: 40 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 461 ft

WATERTABLE: 75 ft

HRS Migration Score: 40.093

LOCATION: 100-DR

COORDINATES: N90900/W52600

SITE DESCRIPTION:

Trench, with a 60 ft. x 40 ft. bottom dimension.

SERVICE DATES: 1955-1955

SERVICE HISTORY:

From 1955 to 1955 the site received contaminated sludge and water removed from 105-DR Fuel Storage Basin. The site was retired in 1955.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-329-CN

Drawings: H-3-57210, H-1-4046, G-7-216

SITE ID NO.: 116-DR-3

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	4000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.20800	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01010	EU-152:	0.01970
NI-63:	0.00000	EU-154:	0.00309
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.05150	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00297
ZR-95:	0.00000	PU-240:	0.00033
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00001	BETA:	0.00000
CS-137:	0.03560	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-DR-4

ALIAS: 105-DR Pluto Crib

STATUS: Inactive

DIMENSIONS:

Length: 10 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 461 ft

WATERTABLE: 73 ft

HRS Migration Score: 9.125

LOCATION: 100-DR

COORDINATES: N91025/W52600

SITE DESCRIPTION:

Wooden crib, 10 ft. x 10 ft. bottom dimensions, with gravel fill.

SERVICE DATES: 1952-1953

SERVICE HISTORY:

From 1952 to 1953 the site received effluent from tubes containing failed fuel elements. In 1953, the site was retired and covered to grade with clean soil.

REFERENCES:

Documents: HW-33305, UNI-946, HW-43121

Photographs: 122440-345-CN

Drawings: H-3-57210, H-1-4046, G-7-216

SITE ID NO.: 116-DR-4

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.004 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	4000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00118	EU-152:	0.00315
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00018
SR-90:	0.00434	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00009
ZR-95:	0.00000	PU-240:	0.00001
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.03810	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-DR-6

ALIAS: 1608-DR Liquid Waste Disposal Trench
STATUS: Inactive
DIMENSIONS:
 Length: 50 ft
 Width: 10 ft
 Depth: 10 ft
 Diameter: 0 ft

FACILITY: Trench
ELEVATION: 461 ft
WATERTABLE: 83 ft
HRS Migration Score: 42.320

LOCATION: 100-D/DR
COORDINATES: N91300/W52550

SITE DESCRIPTION:

Trench, 50 ft. x 10 ft. bottom dimensions, which was covered with 6 ft. of soil.

SERVICE DATES: 1953-1953

SERVICE HISTORY:

From 1953 to 1953, the site received diverted water during a reactor shutdown, when maintenance was necessary on the effluent system.

REFERENCES:

Documents: HW-43121
Photographs: 122440-424-CN
Drawings: H-3-57210

SITE ID NO.: 116-DR-6

CHEMICALS DISPOSED

SODIUM DICHROMATE:	2.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	7000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 116-DR-7

ALIAS: 105-DR Inkwell Crib
STATUS: Inactive
DIMENSIONS:
Length: 5 ft
Width: 5 ft
Depth: 10 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 461 ft
WATERTABLE: 73 ft
HRS Migration Score: 28.956

LOCATION: 100-DR
COORDINATES: N91123/W52734

SITE DESCRIPTION:

A crib 5 ft. long x 5 ft. wide, and 10 ft. deep, currently identifiable by a concrete marker.

SERVICE DATES: 1953-1953

SERVICE HISTORY:

Liquid potassium borate solution was drained from 3x system prior to the ball 3x system upgrade.

REFERENCES:

Documents: UNI-946
Photographs: 122440-421-CN
Drawings: H-3-57210, G-7-216

SITE ID NO.: 116-DR-7

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000	kg
SODIUM OXYLATE:	0	kg
SODIUM SULFAMATE:	0	kg
AMMONIUM:	0	kg
COPPER SULFATE:	0	kg
SODIUM HYDROXIDE:	0	kg
SULFURIC ACID:	0	kg
SULFAMIC ACID:	0	kg
POTASSIUM BORATE:	3000	kg
TOTAL VOLUME DISPOSED:	4000	Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.10000
CS-137:	0.00000	GAMMA:	0.00100
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-DR-8

ALIAS: 117-DR
STATUS: Inactive
DIMENSIONS:
Length: 10 ft
Width: 10 ft
Depth: 10 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 465 ft
WATERTABLE: 72 ft
HRS Migration Score: 0.000

LOCATION: 100-D/DR
COORDINATES: N92053/W52532

SITE DESCRIPTION:

A small crib, 10 ft. x 10 ft. and filled with gravel, covered to grade with clean soil.

SERVICE DATES: 1960-1964

SERVICE HISTORY:

From 1960 to 1964 the site received drainage from confinement system 117 Building seal pits. The site was retired in 1964.

REFERENCES:

Documents: UNI-946
Photographs: 122440-328-CN
Drawings: H-3-57210

SITE ID NO.: 116-DR-8

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	240000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00100
CS-137:	0.00000	GAMMA:	0.00100
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 118-DR-1

ALIAS: 105-DR Gas Loop Burial Ground

STATUS: Inactive

DIMENSIONS:

Length: 125 ft

Width: 75 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 760 ft

WATERTABLE: 72 ft

HRS Migration Score: 1.837

LOCATION: 100-D/DR

COORDINATES: N90400/W52800 (Center)

SITE DESCRIPTION:

A burial ground, 125 ft. long x 75 ft. wide, with a trench running north-south.

SERVICE DATES: 1963-1964

SERVICE HISTORY:

This burial ground contains irradiated metal assemblies from the 105-DR Gas Loop.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-327-CN

Drawings: H-3-57210, G-7-216

SITE ID NO.: 118-DR-1

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	20 cubic meters
MASS:	10000 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	10000 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	10000 kg
TOTAL WASTE VOLUME:	20 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	1.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 100-D/DR Burning Pit

ALIAS: None
STATUS: Inactive
DIMENSIONS:

Length: 100 ft
Width: 100 ft
Depth: 10 ft
Diameter: 0 ft

FACILITY: Burning Pit
ELEVATION: 464 ft
WATERTABLE: 76 ft
HRS Migration Score: 0.129

LOCATION: 100-D/DR
COORDINATES: N92000/W51000

SITE DESCRIPTION:

A pit used to burn non-radioactive material.

SERVICE DATES: 1944-1967

SERVICE HISTORY:

Paint wastes. Chemicals, solvents 1.0E+3 cubic meters.

REFERENCES:

Documents: UNI-946
Photographs: 122440-425-CN
Drawings: H-3-57210, G-7-216

SITE ID NO.: 100-D/DR Burning Pit

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	0 kg
TOTAL WASTE VOLUME:	40000 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: 107-DR

STATUS: Inactive

DIMENSIONS:

Length: 600 feet

Width: 230 feet

Depth:

Diameter:

FACILITY: Retention Basin

ELEVATION: 420 feet

WATERTABLE: 35 feet

HRS Migration Score: 76.910

LOCATION: 100-D/DR

COORDINATES: N-94058/W52516, N94680/W52219

DESCRIPTION OF FACILITY:

A concrete-lined basin, 230 ft. x 600 ft., with 20 foot walls. It has been backfilled to a depth of one to 3 feet.

DATE OF OPERATIONS: 1950 - 1964

DESCRIPTION OF WASTE:

Retained cooling water effluent from the 105 reactor for radioactive decay and thermal cooling prior to release to the Columbia River. Total radionuclide inventories in the vicinity of the basins ranged from 5 to over 400 curies. 70% of the total radionuclide inventory is contained within the soil adjacent to the basins. Approximately 10 curies have leached into the concrete floor and walls.

UNPLANNED RELEASES:

The following is a summary of unplanned releases in the basin area:

- In late 1951, extensive leakage of effluent water at the inlet end of the 107-DR retention basin was caused by the pipes pulling loose from the basin wall.

EXTENT OF CONTAMINATION:

The extent of the contamination from these releases is well within the zone encompassed by the retention basin and is within the AC-5-40 permanent posting.

REFERENCES:

Documents: UNI-946

Photographs: 122440-339-CN

Drawings: H-1-4046

SITE ID NO.: 116-F-1

ALIAS: Lewis Canal

STATUS: Inactive

DIMENSIONS:

Length: 3000 f

Width: 40 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 400 ft

WATERTABLE: 13 ft

HRS Migration Score: 44.547

LOCATION: 100-F

COORDINATES: Head: N80000/W28881, End: N78824/W31430 (Center line of trench)

SITE DESCRIPTION:

Trench, with 3000 ft. x 40 ft. bottom dimensions.

SERVICE DATES: 1953-1960

SERVICE HISTORY:

From 1953 to 1960 the site received liquid wastes from 105-F and 190-F Buildings and decontamination wastes from 189-F Bldg. Occasionally contaminated coolant from the reactor front and rear faces was also drained to the canal. During the ball 3X outage in 1953, effluent water drained to the river via this canal. The site was retired in 1960.

REFERENCES:

Documents: UNI-946, RL-REA-2514

Photographs: 122440-372-CN

Drawings: H-3-57210, H-1-15244, G-7-219

SITE ID NO.: 116-F-1

CHEMICALS DISPOSED

SODIUM DICHROMATE:	100.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	10000 kg
SULFAMIC ACID:	10000 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	100000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.20100	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.22300	EU-152:	0.55900
NI-63:	0.00000	EU-154:	0.19600
KR-85:	0.00000	EU-155:	0.00133
SR-90:	0.05150	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00594
ZR-95:	0.00000	PU-240:	0.00066
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00016
SB-125:	0.00000	U-238:	0.01880
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00006	BETA:	0.00000
CS-137:	0.91000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-F-2

ALIAS: 107-F Liquid Waste Disposal Trench

STATUS: Inactive

DIMENSIONS:

Length: 300 ft

Width: 50 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 410 ft

WATERTABLE: 35 ft

HRS Migration Score: 42.320

LOCATION: 100-F

COORDINATES: N79290/W28570

SITE DESCRIPTION:

Trench, 300 ft. long x 50 ft. wide, surface dimensions which has been covered with 4-20 ft. of soil.

SERVICE DATES: 1950-1965

SERVICE HISTORY:

From 1950 to 1965 the site received effluent overflow from 107-F Retention Basin at times of high activity due to fuel element failure. The site was retired in 1965.

REFERENCES:

Documents: HW-43121, HW-33305, UNI-946

Photographs: 122440-375-CN

Drawings: H-3-57210, H-1-1522, H-1-1540, H-1-4048, G-7-219

SITE ID NO.: 116-F-2

CHEMICALS DISPOSED

SODIUM DICHROMATE:	60.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	60000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.37300	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.80000	EU-152:	6.05000
NI-63:	0.00000	EU-154:	1.49000
KR-85:	0.00000	EU-155:	0.20700
SR-90:	0.06950	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00738
ZR-95:	0.00000	PU-240:	0.00082
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00014
SB-125:	0.00000	U-238:	0.01580
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00029	BETA:	0.00000
CS-137:	0.76100	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-F-3

ALIAS: 105-F Storage Basin Trench

STATUS: Inactive

DIMENSIONS:

Length: 100 ft

Width: 20 ft

Depth: 8 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 413 ft

WATERTABLE: 37 ft

HRS Migration Score: 42.320

LOCATION: 100-F

COORDINATES: N78890/W30910

SITE DESCRIPTION:

Open trench, dimensions range from 100 ft. long x 10-20 ft. wide and 8-11 ft. deep (according to various references - no drawings to show exact dimensions). The trench was covered with 8 ft. of soil.

SERVICE DATES: 1947-1951

SERVICE HISTORY:

From 1947 to 1951 the site received reactor effluent (105-F) during an early fuel failure outage. In 1951, the site received sludge from the 105-F storage basin. The site was retired in 1951.

REFERENCES:

Documents: HW-43121, RL-REA-2514, UNI-946

Photographs: 122440-384-CN

Drawings: H-3-57210, H-1-4048, G-7-219

SITE ID NO.: 116-F-3

CHEMICALS DISPOSED

SODIUM DICHROMATE:	4.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	8000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00048	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00005	EU-152:	0.00030
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00009
SR-90:	0.00036	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-F-4

ALIAS: 105-F Pluto Crib
STATUS: Inactive
DIMENSIONS:
Length: 10 ft
Width: 10 ft
Depth: 10 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 413 ft
WATERTABLE: 36 ft
HRS Migration Score: 4.634

LOCATION: 100-F
COORDINATES: N78890/W31057

SITE DESCRIPTION:

Wooden crib, 10 ft. x 10 ft., filled with gravel.

SERVICE DATES: 1950-1952

SERVICE HISTORY:

From 1950 to 1952, the site received effluent from tubes containing failed fuel elements. In 1952, the site was retired and covered to grade with clean soil.

REFERENCES:

Documents: RL-REA-2514, HW-33305, HW-43121
Photographs: 122440-379-CN
Drawings: H-3-57210, H-1-4048, H-1-5147, G-7-219

SITE ID NO.: 116-F-4

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.004 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	4000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.01070	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00019	EU-152:	0.00723
NI-63:	0.00000	EU-154:	0.02470
KR-85:	0.00000	EU-155:	0.03470
SR-90:	1.06000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00053
NB-95:	0.00000	PU-239:	0.03780
ZR-95:	0.00000	PU-240:	0.00420
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00001
SB-125:	0.00000	U-238:	0.00159
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00157	BETA:	0.00000
CS-137:	1.57000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-F-5

ALIAS: Ball Washer Crib
STATUS: Inactive
DIMENSIONS:
Length: 10 ft
Width: 10 ft
Depth: 10 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 412 ft
WATERTABLE: 36 ft
HRS Migration Score: 3.658

LOCATION: 100-F
COORDINATES: N78755/W31126

SITE DESCRIPTION:

Wooden structure crib, 10 ft. x 10 ft. x 10 ft. high, sitting in an excavation with dimensions of 25 ft. x 25 ft. x 24 ft. deep. There is a 4 in. SCH 40 drian line which enters the excavation.

SERVICE DATES: 1962-1964

SERVICE HISTORY:

From 1962 to 1964 the site received liquid waste from the decontamination of boron steel balls. The site was retired in 1964.

REFERENCES:

Documents: HW-33305, HW-43121, RL-REA-2514
Photographs: 122440-380-CN, 122440-387-CN
Drawings: H-3-57210, H-1-5147, H-1-15244, G-7-219

SITE ID NO.: 116-F-5

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	3000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00033
KR-85:	0.00000	EU-155:	0.00006
SR-90:	0.00002	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00004	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-F-6

ALIAS: 1608-F Liquid Waste Disposal Trench
STATUS: Inactive
DIMENSIONS:
Length: 300 ft
Width: 100 ft
Depth: 10 ft
Diameter: 0 ft

FACILITY: Trench
ELEVATION: 413 ft
WATERTABLE: 36 ft
HRS Migration Score: 42.320

LOCATION: 100-F
COORDINATES: N78730/W30930

SITE DESCRIPTION:

Trench, 300 ft. x 100 ft. bottom dimensions, which was covered with 6 ft. of soil.

SERVICE DATES: 1945-1965

SERVICE HISTORY:

From 1945 to 1965, the site received diverted water during reactor shutdown, where maintenance was necessary on the effluent system.

REFERENCES:

Documents: HW-43121, HW-46715, UNI-946
Photographs: 122440-377-CN
Drawings: H-3-57210, H-1-4048, H-1-15244

SITE ID NO.: 116-F-6

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	3000 kg
SULFAMIC ACID:	3000 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	100000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	1.45000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.33700	EU-152:	1.12000
NI-63:	0.00000	EU-154:	0.27300
KR-85:	0.00000	EU-155:	0.02340
SR-90:	0.17200	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00882
ZR-95:	0.00000	PU-240:	0.00098
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00006
SB-125:	0.00000	U-238:	0.00693
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00028	BETA:	0.00000
CS-137:	0.54600	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-F-7

ALIAS: 117-F Crib
STATUS: Inactive
DIMENSIONS:
Length: 0 ft
Width: 0 ft
Depth: 20 ft
Diameter: 4 ft

FACILITY: French Drain
ELEVATION: 404 ft
WATERTABLE: 27 ft
HRS Migration Score: 40.093

LOCATION: 100-F
COORDINATES: N78592/W31204 (Center of crib)

SITE DESCRIPTION:

A French drain approximately 4 ft. diameter x 20 ft. deep, filled with gravel, and covered with clean soil. The facility is marked by a vent pipe and four steel posts.

SERVICE DATES: 1960-1965

SERVICE HISTORY:

From 1960 to 1965 the site received drainage from confinement seal pits. The site was retired in 1965.

REFERENCES:

Documents: UNI-946
Photographs: 122440-383-CN
Drawings: H-3-57210

SITE ID NO.: 116-F-7

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	300000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00005
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00002	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00003
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-F-9

ALIAS: Animal Waste Leaching Trench

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 15 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench (2)

ELEVATION: 420 ft

WATERTABLE: 50 ft

HRS Migration Score: 42.320

LOCATION: 100-F

COORDINATES: N80140/W28880, N80110/W28910, N79860/W28610, N79840/W28640
(Corners)

SITE DESCRIPTION:

Two trenches connected together forming a Y shape. The long section is 400 ft. and the shorter branch section is 100 ft. in length. Both trenches are 15 ft. wide (all surface dimensions).

SERVICE DATES: 1963-1976

SERVICE HISTORY:

From 1963 to 1976 the site received wash waste water from animal pens. The site was retired in 1976.

REFERENCES:

Documents: UNI-946, HW-33305

Photographs: 122440-374-CN

Drawings: H-3-57210, H-1-15081, G-7-219

SITE ID NO.: 116-F-9

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	1000 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	300000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.18600	EU-152:	0.39400
NI-63:	0.00000	EU-154:	0.18500
KR-85:	0.00000	EU-155:	0.01360
SR-90:	1.96000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00630
ZR-95:	0.00000	PU-240:	0.00070
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.09100	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-F-10

ALIAS: 105-F Dummy Decontamination French Drain

STATUS: Inactive

FACILITY: French Drain

DIMENSIONS:

ELEVATION: 412 ft

Length: 0 ft

WATERTABLE: 38 ft

Width: 0 ft

HRS Migration Score: 42.320

Depth: 10 ft

Diameter: 3 ft

LOCATION: 100-F

COORDINATES: N78760/W30885

SITE DESCRIPTION:

French Drain, 3 ft. diameter, 10 ft. deep.

SERVICE DATES: 1953-1965

SERVICE HISTORY:

From 1953 to 1965, the site received spent acid and rinse water from the 105-F dummy (fuel element spacers) decontamination facility. The site was retired in 1965.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-378-CN

Drawings: H-3-57210, H-1-15244

SITE ID NO.: 116-F-10

CHEMICALS DISPOSED

SODIUM DICHROMATE:	2000.000 kg
SODIUM OXYLATE:	2000 kg
SODIUM SULFAMATE:	2000 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	400000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.03710	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01010	EU-152:	0.01180
NI-63:	0.00000	EU-154:	0.00134
KR-85:	0.00000	EU-155:	0.00196
SR-90:	0.00006	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00007
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00003
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00670	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-F-11

ALIAS: 105-F Cushion Corridor French Drain
STATUS: Inactive
DIMENSIONS:
Length: 0 ft
Width: 0 ft
Depth: 3 ft
Diameter: 3 ft

FACILITY: French Drain
ELEVATION: 412 ft
WATERTABLE: 37 ft
HRS Migration Score: 0.000

LOCATION: 100-F
COORDINATES: N79016/W30885

SITE DESCRIPTION:

A French Drain 3 ft. in diameter, 3 ft. deep.

SERVICE DATES: 1953-1965

SERVICE HISTORY:

The site receive cushion corridor decontamination waste.

REFERENCES:

Documents: HW-43121
Photographs: 122440-428-CN
Drawings: H-3-57210

SITE ID NO.: 116-F-11

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	200000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 116-F-12

ALIAS: 148-F French Drain

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 6 ft

Diameter: 3 ft

FACILITY: French Drain

ELEVATION: 407 ft

WATERTABLE: 50 ft

HRS Migration Score: 0.000

LOCATION: 100-F

COORDINATES: N80270/W29120

SITE DESCRIPTION:

A French Drain structure 3 ft. in diameter, 6 ft. deep.

SERVICE DATES: 1944-1964

SERVICE HISTORY:

Recovered effluent pump prime from lift station which then went back to the effluent line.

REFERENCES:

Documents: HW-43121

Photographs: 122440-429-CN

Drawings: H-3-57210

SITE ID NO.: 116-F-12

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	10000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 116-F-13

ALIAS: 1705-F Experimental Garden French Drain

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 3 ft

Diameter: 3 ft

FACILITY: French Drain

ELEVATION: 407 ft

WATERTABLE: 40 ft

HRS Migration Score: 0.000

LOCATION: 100-F

COORDINATES: N80620/W29290

SITE DESCRIPTION:

A French Drain 3 ft. in diameter x 3 ft. deep associated with an Experimental Garden Facility.

SERVICE DATES: 1952-1976

SERVICE HISTORY:

The site received effluent water for a Botany Experiment.

REFERENCES:

Documents: HW-43121

Photographs: 122440-431-CN

Drawings: H-3-57210

SITE ID NO.: 116-F-13

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000	kg
SODIUM OXYLATE:	0	kg
SODIUM SULFAMATE:	0	kg
AMMONIUM:	0	kg
COPPER SULFATE:	0	kg
SODIUM HYDROXIDE:	0	kg
SULFURIC ACID:	0	kg
SULFAMIC ACID:	0	kg
POTASSIUM BORATE:	0	kg
TOTAL VOLUME DISPOSED:	10000	Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 118-F-1

ALIAS: Burial Ground No.1
STATUS: Inactive
DIMENSIONS:
Length: 600 ft
Width: 500 ft
Depth: 20 ft
Diameter: 0 ft

FACILITY: Burial Ground
ELEVATION: 394 ft
WATERTABLE: 18 ft
HRS Migration Score: 2.006

LOCATION: 100-F
COORDINATES: N78071/W32200, N78178/W31800, N78178/W31600, N77671/W31600,
N77671/W32200

SITE DESCRIPTION:

A burial ground 600 ft. long x 500 ft. wide and 20 ft. deep which contains trenches which run north-south and are generally 300 ft. x 20 ft. wide.

SERVICE DATES: 1954-1965

SERVICE HISTORY:

This burial ground contains miscellaneous radioactive soft wastes, reactor components and hardware.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121
Photographs: 122440-371-CN
Drawings: H-3-57210, H-1-15396, H-1-14731, H-1-15081, M-1600-F #8, H-1-4048, G-7

SITE ID NO.: 118-F-1

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	100 cubic meters
MASS:	80000 kg
CONSTRUCTION WASTE	
VOLUME:	20000 cubic meters
MASS:	80000 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	10000000 kg
TOTAL WASTE VOLUME:	20000 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	3.50000	CE-144:	0.00000
C-14:	0.66000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	764.30000	EU-152:	15.40000
NI-63:	83.10000	EU-154:	28.10000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1.30000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	1.30000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-F-1

METALLIC WASTE

ALUMINIUM TUBES:	17055.0 kg
ALUMINUM SPACERS:	36287.0 kg
LEAD-CADMIUM POISON SLUGS	
Lead:	93712.0 kg
Cadmium:	3900.0 kg
GRAPHITE:	70.7 kg
DESICCANT:	16.0 kg
ALUMINIUM POISON SLUGS:	6441.0 kg
BORON POISON SPLINES:	816.0 kg
LEAD:	19050.0 kg
MERCURY:	0.0 kg
MISCELLANEOUS METTALIC WASTE:	12247.0 kg

SITE ID NO.: 118-F-2

ALIAS: Burial Ground #2

STATUS: Inactive

DIMENSIONS:

Length: 368 ft

Width: 326 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 396 ft

WATERTABLE: 20 ft

HRS Migration Score: 1.337

LOCATION: 100-F

COORDINATES: N78990/W32787, N78985/W32461, N78626/W32469, N78623/W32796

SITE DESCRIPTION:

A burial ground, 368 ft. long x 326 ft. wide. The trenches run north-south and are generally 250 ft. x 20 ft. x 20 ft. deep.

SERVICE DATES: 1945-1965

SERVICE HISTORY:

This burial ground contains miscellaneous radioactive soft wastes, reactor components and hardware.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-385-CN

Drawings: H-3-57210, H-1-15396, H-1-14731, H-1-15081, H-1-4048, G-7-219

SITE ID NO.: 118-F-2

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	10000 cubic meters
MASS:	1000000 kg
TOTAL WASTE MASS:	1000000 kg
TOTAL WASTE VOLUME:	10000 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	1.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-F-3

ALIAS: Burial Ground #3

STATUS: Inactive

DIMENSIONS:

Length: 175 ft

Width: 50 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 406 ft

WATERTABLE: 33 ft

HRS Migration Score: 1.337

LOCATION: 100-F

COORDINATES: N78660/W31317, N78762/W31324, N78839/W31274, N78812/W31282,
N78749/W31273

SITE DESCRIPTION:

A burial ground that is 175 ft. long x 50 ft. wide, running north-south.

SERVICE DATES: 1952-1952

SERVICE HISTORY:

This burial ground contains irradiated wastes such as thimbles and step plugs removed from the 105-F pile during the Ball 3X work in 1952.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-381-CN

Drawings: H-3-57210, H-1-15396, H-1-14731, H-1-15081, H-1-15244, H-1-4048, G-7-2

SITE ID NO.: 118-F-3

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	10 cubic meters
MASS:	7000 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	7000 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	7000 kg
TOTAL WASTE VOLUME:	10 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	1.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-F-4

ALIAS: 115-F Pit

STATUS: Inactive

DIMENSIONS:

Length: 10 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 406 ft

WATERTABLE: 70 ft

HRS Migration Score: 1.750

LOCATION: 100-F

COORDINATES: N78880/W31400

SITE DESCRIPTION:

A small pit, 10 ft. x 10 ft. The area was covered with 6 ft. of soil.

SERVICE DATES: 1949-1949

SERVICE HISTORY:

This burial ground contains silica gel removed from gel tower in one of the 115-F dryer rooms.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121, RL-REA-2514

Photographs: 122440-382-CN

Drawings: H-3-57210, G-7-219

SITE ID NO.: 118-F-4

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	10 cubic meters
MASS:	10000 kg
TOTAL WASTE MASS:	10000 kg
TOTAL WASTE VOLUME:	10 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.80000	CE-144:	0.00000
C-14:	0.02000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-F-5

ALIAS: PNL Sawdust Repository

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 150 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 406 ft

WATERTABLE: 30 ft

HRS Migration Score: 2.006

LOCATION: 100-F

COORDINATES: N78980/W28990, N79020/W27900, N78600/W27780, N78690/W28380

SITE DESCRIPTION:

A burial ground that is 500 ft. x 150 ft.

SERVICE DATES: 1954-1975

SERVICE HISTORY:

This burial ground contains low-level activity sawdust from animal pens.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs:

Drawings: H-3-57210, H-1-15081, H-1-15396, G-7-219

SITE ID NO.: 118-F-5

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
LABORATORY/OTHER WASTE	
VOLUME:	10000 cubic meters
MASS:	1000000 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	1000000 kg
TOTAL WASTE VOLUME:	10000 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	10.40000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.30000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-F-6

ALIAS: PNL Solid Waste Burial Ground

STATUS: Inactive

DIMENSIONS:

Length: 400 ft

Width: 200 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 396 ft

WATERTABLE: 18 ft

HRS Migration Score: 1.671

LOCATION: 100-F

COORDINATES: N77780/W31948, N77390/W31720

SITE DESCRIPTION:

A burial ground, 400 ft. x 200 ft., running north-south. This burial ground adjoins the 118-F-1 burial ground and is designated by HPS-AC-5-40 concrete markers.

SERVICE DATES: 1965-1973

SERVICE HISTORY:

This burial ground contains animal and laboratory wastes. This is considered a Biology Burial Ground, not receiving reactor related wastes.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-386-CN

Drawings: H-3-57210, H-1-15081, M-1600-F #8, G-7-219

SITE ID NO.: 118-F-6

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
LABORATORY/OTHER WASTE	
VOLUME:	10000 cubic meters
MASS:	1000000 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	1000000 kg
TOTAL WASTE VOLUME:	10000 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	10.40000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-F-7

ALIAS: 100-F Misc. Hardware Storage Vault
STATUS: Inactive
DIMENSIONS:
Length: 16 ft
Width: 8 ft
Depth: 8 ft
Diameter: 0 ft

FACILITY: Burial Vault
ELEVATION: 412 ft
WATERTABLE: 38 ft
HRS Migration Score: 1.167

LOCATION: 100-F
COORDINATES: N78760/W30905

SITE DESCRIPTION:

Concrete box 16 ft. long x 8 ft. wide, 8 ft. deep with a wooden cover.

SERVICE DATES: 1945-1965

SERVICE HISTORY:

Temporary storage for miscellaneous reactor hardware. Hardware is still present.

REFERENCES:

Documents: RL-REA-2514
Photographs: 122440-433-CN, 122440-434-CN
Drawings: H-3-57210

SITE ID NO.: 118-F-7

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	0 kg
TOTAL WASTE VOLUME:	0 cubic meters

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	1.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 100-F Burning Pits-2

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 100 ft

Width: 100 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Burning Pit

ELEVATION: 413 ft

WATERTABLE: 36 ft

HRS Migration Score: 0.083

LOCATION: 100-F

COORDINATES: N78500/W29500

SITE DESCRIPTION:

A pit, 100 ft. x 100 ft. surface dimensions, 10 ft. deep.

SERVICE DATES: 1945-1965

SERVICE HISTORY:

From 1945 to 1965, the site was used for the disposal of non-radioactive combustibile materials, such as paint waste, office waste and chemical solvents.

REFERENCES:

Documents: UNI-946

Photographs: 122440-427-CN

Drawings: H-3-57210, G-7-219

SITE ID NO.: 100-F Burning Pit

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	0 kg
TOTAL WASTE VOLUME:	20000 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: 107-F

STATUS: Inactive

DIMENSIONS:

Length: 450 feet

Width: 230 feet

Depth: 24 feet

Diameter:

FACILITY: Retention Basin

ELEVATION: 400 feet

WATERTABLE: 30 feet

HRS Migration Score: 76.910

LOCATION: 100-F

COORDINATES: N79967/W24130, N79967/W28900, N79500/W28900, N79500/W29130

DESCRIPTION OF FACILITY:

A concrete-lined basin, 230 ft. x 467 ft., with 20 foot walls, similar in design to 100-B and 100-D. The basin has back-filled to a depth of about 5 feet, with soil piled to cover the walls.

DATE OF OPERATIONS: 1945 - 1965

DESCRIPTION OF WASTE:

Retained cooling water effluent from the 105 reactor for radioactive decay and thermal cooling prior to release to the Columbia River. 70% of the total radionuclide inventory is contained within the soil adjacent to the basins. Approximately 10 curies have leached into the concrete floor and walls.

UNPLANNED RELEASES:

EXTENT OF CONTAMINATION:

The extent of the contamination from these releases is well within the zone encompassed by the retention basin and is within the AC-5-40 permanent posting.

REFERENCES:

Documents: UNI-946

Photographs: 122440-376-CN

Drawings: H-1-15081

SITE ID NO.: 116-H-1

ALIAS: 107-H Liquid Waste Disposal Trench
STATUS: Inactive
DIMENSIONS:
Length: 200 ft
Width: 25 ft
Depth: 15 ft
Diameter: 0 ft

FACILITY: Trench
ELEVATION: 420 ft
WATERTABLE: 42 ft
HRS Migration Score: 42.320

LOCATION:

COORDINATES: N94850/W38602, N95050/W38602 (Center of trench)

SITE DESCRIPTION:

Trench, approximately 200 ft. x 25 ft. surface dimensions, 15 ft. deep.

SERVICE DATES: 1952-1965

SERVICE HISTORY:

From 1952 to 1965, the site received effluent overflow from the 10 7-H Retention Basin at times of high activity due to fuel element failure. The site was retired in 1965.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121
Photographs: 122440-354-CN
Drawings: H-3-57210, H-1-4047, G-7-22, P-1009 #8, P-1220

SITE ID NO.: 116-H-1

CHEMICALS DISPOSED

SODIUM DICHROMATE:	90.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	90000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.03090	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.91100	EU-152:	9.20000
NI-63:	0.00000	EU-154:	5.04000
KR-85:	0.00000	EU-155:	0.14500
SR-90:	0.75300	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00309
NB-95:	0.00000	PU-239:	0.06030
ZR-95:	0.00000	PU-240:	0.00669
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00139
SB-125:	0.00000	U-238:	0.15900
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00004	BETA:	0.00000
CS-137:	3.81000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-H-2

ALIAS: 1608-H Liquid Waste Disposal Trench
STATUS: Inactive
DIMENSIONS:
Length: 275 ft
Width: 100 ft
Depth: 6 ft
Diameter: 0 ft

FACILITY: Trench
ELEVATION: 420 ft
WATERTABLE: 42 ft
HRS Migration Score: 42.320

LOCATION: 100-H
COORDINATES: N94830/W39750 (Center of trench)

SITE DESCRIPTION:

Trench, 275 ft. x 100 ft. bottom dimensions, which was covered with 6 ft. of soil.

SERVICE DATES: 1953-1965

SERVICE HISTORY:

From 1953 to 1965 the site received diverted water during reactor shutdown, where maintenance was necessary on the effluent system.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121, RL-REA-2514
Photographs: 122440-367-CN
Drawings: H-3-57210, H-1-4047, G-7-22

SITE ID NO.: 116-H-2

CHEMICALS DISPOSED

SODIUM DICHROMATE:	600.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	600000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.21400	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00978	EU-152:	0.05320
NI-63:	0.00000	EU-154:	0.01030
KR-85:	0.00000	EU-155:	0.00411
SR-90:	0.49100	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00038
ZR-95:	0.00000	PU-240:	0.00004
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00005
SB-125:	0.00000	U-238:	0.00594
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00003	BETA:	0.00000
CS-137:	0.25600	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-H-3

ALIAS: 105-H Dummy Decontamination French Drain

STATUS: Inactive

FACILITY: French Drain (2)

DIMENSIONS:

ELEVATION: 420 ft

Length: 0 ft

WATERTABLE: 42 ft

Width: 0 ft

HRS Migration Score: 42.320

Depth: 15 ft

Diameter: 3 ft

LOCATION: 100-F

COORDINATES: N95190/W39335 (#1-Center), N95173/W39350 (#2 Center)

SITE DESCRIPTION:

French drain, made of 3 ft. diameter vitreous tile conduit, 15 ft. deep.

SERVICE DATES: 1950-1965

SERVICE HISTORY:

From 1950 to 1965 the site received spent acid and rinse water from the 105-H dummy (fuel element spacers) decontamination facility. The site was retired in 1965.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-363-CN

Drawings: H-3-57210

SITE ID NO.: 116-H-3

CHEMICALS DISPOSED

SODIUM DICHROMATE:	2000.000 kg
SODIUM OXYLATE:	2000 kg
SODIUM SULFAMATE:	2000 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	400000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00088	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00506	EU-152:	0.00657
NI-63:	0.00000	EU-154:	0.00139
KR-85:	0.00000	EU-155:	0.00012
SR-90:	0.00014	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00008
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.03310	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-H-4

ALIAS: 105-H Pluto Crib
STATUS: Exhumed
DIMENSIONS:
Length: 4 ft
Width: 4 ft
Depth: 2 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 421 ft
WATERTABLE: 43 ft
HRS Migration Score: 4.634

LOCATION: 100-H
COORDINATES: N95130/W39850

SITE DESCRIPTION:

Crib with a 4 ft. x 4 ft. bottom surface.

SERVICE DATES: 1950-1952

SERVICE HISTORY:

From 1950 to 1952, the site received effluent from tubes containing failed fuel elements. In 1952 the site was retired and covered with 2 ft. of soil. In 1960, the crib was exhumed and moved to 118-H-5 Burial Ground.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121, RL-REA-2514
Photographs: 122440-365-CN
Drawings: H-3-57210, H-1-4047, G-7-22

SITE ID NO.: 116-H-4

CHEMICALS DISPOSED

SODIUM DICHROMATE:	1000.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	1000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site has been exhumed, therefore no radioactivity is present.

These values are decayed through April 1, 1986.

SITE ID NO.: 118-H-1

ALIAS: 100-H Burial Ground #1

STATUS: Inactive

DIMENSIONS:

Length: 700 ft

Width: 350 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 420 ft

WATERTABLE: 42 ft

HRS Migration Score: 1.750

LOCATION: 100-H

COORDINATES: N93835/W40680, N94185/W40650, N94175/W39954, N93835/W39956

SITE DESCRIPTION:

A burial ground, approximately 700 ft. long x 350 ft. wide, running east-west. There are numerous trenches of various dimensions, generally running north-south.

SERVICE DATES: 1949-1965

SERVICE HISTORY:

This burial ground contains miscellaneous soft wastes, reactor components and hardware.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121, RL-REA-2514

Photographs: 122440-351-CN

Drawings: H-3-57210, H-1-13484, H-1-14732, H-1-15397, H-1-4047, G-7-22

SITE ID NO.: 118-H-1

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	100 cubic meters
MASS:	60000 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	60000 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	10000 cubic meters
MASS:	1000000 kg
TOTAL WASTE MASS:	1000000 kg
TOTAL WASTE VOLUME:	10000 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	3.50000	CE-144:	0.00000
C-14:	0.66000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	610.00000	EU-152:	14.20000
NI-63:	0.00000	EU-154:	25.10000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	1.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-H-1

METALLIC WASTE

ALUMINIUM TUBES:	12700.0 kg
ALUMINUM SPACERS:	25401.0 kg
LEAD-CADMIUM POISON SLUGS	
Lead:	74933.0 kg
Cadmium:	3175.0 kg
GRAPHITE:	43.0 kg
DESICCANT:	16.0 kg
ALUMINIUM POISON SLUGS:	5080.0 kg
BORON POISON SPLINES:	725.0 kg
LEAD:	19050.0 kg
MERCURY:	0.0 kg
MISCELLANEOUS METTALIC WASTE:	13154.0 kg

SITE ID NO.: 118-H-2

ALIAS: H-1 Loop Burial Area, 100-H B.G. #2

STATUS: Inactive

DIMENSIONS:

Length: 140 ft

Width: 50 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 420 ft

WATERTABLE: 42 ft

HRS Migration Score: 1.167

LOCATION: 100-H

COORDINATES: N95266/W41128, N95318/W41129, N95313/40983, N95268/W40985

SITE DESCRIPTION:

Burial ground is 140 ft. long, 50 ft. wide, running east-west, contains two in-line concrete vaults.

SERVICE DATES: 1955-1965

SERVICE HISTORY:

Received one stainless steel tube removed from the reactor in 1955. During the deactivation of H Plant, it was used for disposal of a small amount of contaminated pipe.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121, RL-REA-2514

Photographs: 122440-350-CN

Drawings: H-3-57210, H-1-15397, H-1-14732, H-1-4047, G-7-22

SITE ID NO.: 118-H-2

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	2 cubic meters
MASS:	1000 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	1000 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	1000 kg
TOTAL WASTE VOLUME:	2 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	1.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-H-3

ALIAS: Construction Burial Ground

STATUS: Inactive

DIMENSIONS:

Length: 300 ft

Width: 200 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 420 ft

WATERTABLE: 42 ft

HRS Migration Score: 1.167

LOCATION: 100-H

COORDINATES: N94400/W39400

SITE DESCRIPTION:

A burial ground, 300 ft. long x 200 ft. wide, running north-south. The trenches were covered with 6 ft. of soil.

SERVICE DATES: 1953-1957

SERVICE HISTORY:

This burial ground contains sections of contaminated 16 in. pipe- (used as chutes for removal of thimbles from 105-H during outages), reactor hardware and components from reactor modification programs.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-368-CN

Drawings: H-3-57210, H-1-4047, G-7-22

SITE ID NO.: 118-H-3

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	6 cubic meters
MASS:	3000 kg
CONSTRUCTION WASTE	
VOLUME:	3000 cubic meters
MASS:	3000 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	3000000 kg
TOTAL WASTE VOLUME:	3000 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	1.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-H-4

ALIAS: Ball 3X Burial Ground

STATUS: Inactive

DIMENSIONS:

Length: 150 ft

Width: 30 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 422 ft

WATERTABLE: 44 ft

HRS Migration Score: 1.167

LOCATION: 100-H

COORDINATES: N95300/W39600

SITE DESCRIPTION:

A burial ground with one trench running east-west, 150 ft. long x 30 ft. wide.

SERVICE DATES: 1953-1953

SERVICE HISTORY:

This burial ground contains irradiated material such as Vertical Safety Rod thimbles and guides from 105-H.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121, RL-REA-2514

Photographs: 122440-366-CN

Drawings: H-3-57210, H-1-4047, G-7-22

SITE ID NO.: 118-H-4

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	20 cubic meters
MASS:	10000 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	10000 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	10000 kg
TOTAL WASTE VOLUME:	20 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	1.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-H-5

ALIAS: 105-H Thimble Pit
STATUS: Inactive
DIMENSIONS:
Length: 30 ft
Width: 10 ft
Depth: 2 ft
Diameter: 0 ft

FACILITY: Burial Ground
ELEVATION: 422 ft
WATERTABLE: 44 ft
HRS Migration Score: 1.167

LOCATION: 100-H
COORDINATES: N95000/W39750

SITE DESCRIPTION:

A burial ground with one trench, 30 ft. long x 2 ft. wide.

SERVICE DATES: 1953-1953

SERVICE HISTORY:

This burial ground contains a thimble assembly from the B experimental hole, 105-H, buried in 1953. In 1961, the 105-H Pluto Crib (116-H-4) was excavated due to the construction of the 105-H Confinement System and placed in this burial ground.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121, HW-46715, RL-REA-2514
Photographs: 122440-364-CN
Drawings: H-3-57210

SITE ID NO.: 118-H-5

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	30 cubic meters
MASS:	100 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	100 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	100 kg
TOTAL WASTE VOLUME:	30 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	1.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 117-H

ALIAS: None
STATUS: Inactive
DIMENSIONS:

Length: 10 ft
Width: 10 ft
Depth: 10 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 422 ft
WATERTABLE: 44 ft
HRS Migration Score: 0.000

LOCATION: 100-H
COORDINATES: N95200/W40100

SITE DESCRIPTION:

A small crib, 10 ft. x 10 ft. and filled with gravel, covered to grade with clean soil.

SERVICE DATES: 1960-1965

SERVICE HISTORY:

From 1960 to 1965 the site received drainage from confinement system 117 Building seal pits. The site was retired in 1965. When this site was sampled in 1978, it was found not to contain contamination above background level.

REFERENCES:

Documents: RL-REA-2514, UNI-946
Photographs: 122440-352-CN
Drawings: H-3-57210

SITE ID NO.: 117-H

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	300000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site has been released from radiation zone status.

These values are decayed through April 1, 1986.

SITE ID NO.: 100-H Burning Pit

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 100 ft

Width: 100 ft

Depth: 100 ft

Diameter: 0 ft

FACILITY: Burning Pit

ELEVATION: 420 ft

WATERTABLE: 42 ft

HRS Migration Score: 0.083

LOCATION: 100-H

COORDINATES: N97850/W41300

SITE DESCRIPTION:

A pit, 100 ft. x 100 ft. surface dimensions, 10 ft. deep.

SERVICE DATES: 1949-1965

SERVICE HISTORY:

From 1949 to 1965, the site was used for the disposal of non-radioactive combustible materials, such as paint waste, office waste and chemical solvents.

REFERENCES:

Documents: UNI-946

Photographs: 122440-426-CN

Drawings: H-3-57210, G-7-22

SITE ID NO.: 100-H Burning Pit

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	0 kg
TOTAL WASTE VOLUME:	10000 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: 107-H

STATUS: Inactive

DIMENSIONS:

Length: 600 feet
Width: 273 feet
Depth: 20 feet
Diameter:

FACILITY: Retention Basin

ELEVATION: 420 feet

WATERTABLE: 10 feet

HRS Migration Score: 76.910

LOCATION: 100-H

COORDINATES: N96000/W38740, N96000/W38466, N95368/W38466, N95368/W38740

DESCRIPTION OF FACILITY:

Concrete-lined rectangular basin, 273 ft. x 600 ft.; 20 feet deep. The basin has been back-filled to a depth of about 4 feet above the floor and slopes to the top of the walls.

DATE OF OPERATIONS: 1949 - 1965

DESCRIPTION OF WASTE:

Retained cooling water effluent from the 105 reactor for radioactive decay and thermal cooling prior to release to the Columbia River. 70% of the total radionuclide inventory is contained within the soil adjacent to the basins. Approximately 10 curies have leached into the concrete floor and walls.

UNPLANNED RELEASES:

The basin and its approximate 5 foot diameter effluent line has developed leaks during its operating life. It has been said the leaks could have been as high as 5,000 - 10,000 gallons per minute.

EXTENT OF CONTAMINATION:

The extent of contamination from these releases is well within the zone encompassed by the retention basin and is within the AC-5-40 permanent posting.

REFERENCES:

Documents: UNI-946
Photographs: 122440-353-CN
Drawings: H-1-4047

SITE ID NO.: 116-K-1

ALIAS: 100-K Crib

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 30 ft

Diameter: 400 ft

FACILITY: Crib

ELEVATION: 420 ft

WATERTABLE: 50 ft

HRS Migration Score: 42.320

LOCATION: 100-K

COORDINATES: N78000/W67000

SITE DESCRIPTION:

A dishlike earthen crib approximately 400 ft. in diameter at the top. There is 1 ft. of gravel outlining the sides and bottom, backfilled over with earth, and a 1 ft. layer of gravel across the top. This inner excavation sits within an excavation filled with sand which is 10 ft. wide at sides and 10 ft. deeper, parallel to the inner structure, both with a side slope of 4:1.

SERVICE DATES: 1955-1955

SERVICE HISTORY:

In 1955 the site received reactor coolant water from 107-K Retention Basins during reactor outages due to fuel failure.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-320-CN

Drawings: H-3-57210, H-1-25189, H-1-25021, M-1600-K #2, G-7-220

SITE ID NO.: 116-K-1

CHEMICALS DISPOSED

SODIUM DICHROMATE:	40.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	40000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	2.83000	EU-152:	6.57000
NI-63:	0.00000	EU-154:	2.11000
KR-85:	0.00000	EU-155:	0.10700
SR-90:	0.58100	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.01310
NB-95:	0.00000	PU-239:	0.12600
ZR-95:	0.00000	PU-240:	0.01400
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.01130	BETA:	0.00000
CS-137:	18.20000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-K-2

ALIAS: 100-K Mile Long Trench

STATUS: Inactive

DIMENSIONS:

Length: 4000 f

Width: 50 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 430 ft

WATERTABLE: 34 ft

HRS Migration Score: 51.230

LOCATION: 100-K

COORDINATES: N77960/W67130, N81100/W64655 (Center line of trench)

SITE DESCRIPTION:

Trench, 4000 ft. x 50 ft. x 20 ft. deep. The sideslope is 5:1.
The trench has spoil piles at the surface on both sides.

SERVICE DATES: 1955-1971

SERVICE HISTORY:

Received reactor coolant water from 107-K retention basins.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-321-CN

Drawings: H-3-57210, G-7-220

SITE ID NO.: 116-K-2

CHEMICALS DISPOSED

SODIUM DICHROMATE:	300000.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	500 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	10000 kg
SULFAMIC ACID:	10000 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	300000000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	15.70000	CE-144:	0.00000
C-14:	0.93900	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	54.00000	EU-152:	723.00000
NI-63:	141.00000	EU-154:	211.00000
KR-85:	0.00000	EU-155:	10.70000
SR-90:	9.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.17800
NB-95:	0.00000	PU-239:	4.50000
ZR-95:	0.00000	PU-240:	0.50000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00278
SB-125:	0.00000	U-238:	0.31700
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.75100	BETA:	0.00000
CS-137:	149.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-KE-1

ALIAS: 115-KE Condensate Crib
STATUS: Inactive
DIMENSIONS:
Length: 40 ft
Width: 40 ft
Depth: 26 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 464 ft
WATERTABLE: 68 ft
HRS Migration Score: 40.093

LOCATION: 100-KE
COORDINATES: N76414/W67607

SITE DESCRIPTION:

Crib, with 6 ft. x 6 ft. bottom dimensions, 40 ft. x 40 ft. surface dimensions, and is 26 ft. deep. The bottom is filled with coarse gravel to 1 ft. above the bottom, backfilled over with dirt to grade. The distribution system is composed of a 4 in. pipe which leads into an 8 in. corrugated, perforated pipe which is 10.5 ft. long with two 5.4 ft. sections branching off at 45 degrees.

SERVICE DATES: 1955-1971

SERVICE HISTORY:

From 1955 to 1971 the site received condensate and other waste from reactor gas purification systems. The site was retired in 1971.

REFERENCES:

Documents: HW-43121
Photographs: 122440-313-CN
Drawings: H-3-57210, H-1-23207, G-7-220

SITE ID NO.: 116-KE-1

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	800000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	56.50000	CE-144:	0.00000
C-14:	110.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.97400
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-KE-2

ALIAS: 1706-KER Waste Crib
STATUS: Inactive
DIMENSIONS:
Length: 16 ft
Width: 16 ft
Depth: 32 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 464 ft
WATERTABLE: 68 ft
HRS Migration Score: 49.002

LOCATION: 100-KE
COORDINATES: N76018//W68191

SITE DESCRIPTION:

Crib, with 16 ft. x 16 ft. bottom dimensions -- an excavation with a depth of 32 ft. There is a wooden crib structure 10 ft. x 10 ft. x 10 ft. that sits in this excavation 3 ft. above the bottom. The bottom 10 ft. is filled with crushed stone then backfilled over. The distribution pipe enters the crib structure 23 ft. below grade. The side slope is 1:1.

SERVICE DATES: 1955-1971

SERVICE HISTORY:

From 1955 to 1971 the site received wastes from cleanup columns in the 1706-KER loop. The site was retired in 1971.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121
Photographs: 122440-314-CN
Drawings: H-3-57210, H-1-20365 KE, H-1-20380 KE, G-7-220

SITE ID NO.: 116-KE-2

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	100000 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	3000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.42800	CE-144:	0.00000
C-14:	0.12000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	11.10000	EU-152:	0.00263
NI-63:	0.00000	EU-154:	0.17000
KR-85:	0.00000	EU-155:	0.01520
SR-90:	2.13000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.01700
ZR-95:	0.00000	PU-240:	0.00190
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00002
SB-125:	0.00000	U-238:	0.00208
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.66200	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-KE-3

ALIAS: 105-KE Storage Basin French Drain
STATUS: Inactive
DIMENSIONS:
Length: 0 ft
Width: 0 ft
Depth: 39 ft
Diameter: 10 ft

FACILITY: French Drain
ELEVATION: 464 ft
WATERTABLE: 68 ft
HRS Migration Score: 0.000

LOCATION: 100 K
COORDINATES: N(K)4691/W(K)4756

SITE DESCRIPTION:

A French Drain, 10 ft. in diameter, 39 ft. deep.

SERVICE DATES: 1955-1971

SERVICE HISTORY:

From 1955-1971, the site was used as an overflow weir for sub-drainage from the 105-KE Storage Basin.

REFERENCES:

Documents: HW-43121
Photographs: 122440-413-CN
Drawings: H-3-57210, H-1-23207

SITE ID NO.: 116-KE-3

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 100 KE*1

ALIAS: 183 KE Filter Water Facility

STATUS: Inactive

DIMENSIONS:

Length: 4 ft

Width: 4 ft

Depth: 4 ft

Diameter: 0 ft

FACILITY: Dry Well

ELEVATION: 464 ft

WATERTABLE: 68 ft

HRS Migration Score: 42.320

LOCATION: 100-K

COORDINATES: N(K)3150/W(K)4500

SITE DESCRIPTION:

A dry sump, 4 ft. long x 4 ft. wide, and 4 ft. deep with a wooden cover.

SERVICE DATES: 1955-1971

SERVICE HISTORY:

The site received sulfuric acid sludge which was removed from sulfuric acid storage tanks.

REFERENCES:

Documents: J.J. Dorian letter 11/4/85

Photographs:

Drawings: H-3-57210

SITE ID NO.: 100 KE*1

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000	kg
SODIUM OXYLATE:	0	kg
SODIUM SULFAMATE:	0	kg
AMMONIUM:	0	kg
COPPER SULFATE:	0	kg
SODIUM HYDROXIDE:	0	kg
SULFURIC ACID:	0	kg
SULFAMIC ACID:	0	kg
POTASSIUM BORATE:	0	kg
TOTAL VOLUME DISPOSED:	0	Liters

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: 100 KE*1

METALLIC WASTE

ALUMINIUM TUBES:	0.0 kg
ALUMINUM SPACERS:	0.0 kg
LEAD-CADMIUM POISON SLUGS	
Lead:	0.0 kg
Cadmium:	0.0 kg
GRAPHITE:	0.0 kg
DESICCANT:	0.0 kg
ALUMINIUM POISON SLUGS:	0.0 kg
BORON POISON SPLINES:	0.0 kg
LEAD:	0.0 kg
MERCURY:	200.0 kg
MISCELLANEOUS METTALIC WASTE:	0.0 kg

SITE ID NO.: 100 KE*2

ALIAS: 183 KE Filter Water Facility

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 3 ft

Diameter: 3 ft

FACILITY: French Drain

ELEVATION: 464 ft

WATERTABLE: 68 ft

HRS Migration Score: 42.320

LOCATION: 100-K

COORDINATES: N(K)3195/W(K)4480

SITE DESCRIPTION:

A French Drain structure, 3 ft. in diameter and 3 ft. deep with an open bottom.

SERVICE DATES: 1955-1971

SERVICE HISTORY:

The site received sulfuric acid sludge which was removed from sulfuric acid storage tanks.

REFERENCES:

Documents: J.J. Dorian letter 11/4/85

Photographs:

Drawings: H-3-57210

SITE ID NO.: 100 KE*2

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: 100 KE*2

METALLIC WASTE

ALUMINIUM TUBES:	0.0 kg
ALUMINUM SPACERS:	0.0 kg
LEAD-CADMIUM POISON SLUGS	
Lead:	0.0 kg
Cadmium:	0.0 kg
GRAPHITE:	0.0 kg
DESICCANT:	0.0 kg
ALUMINIUM POISON SLUGS:	0.0 kg
BORON POISON SPLINES:	0.0 kg
LEAD:	0.0 kg
MERCURY:	200.0 kg
MISCELLANEOUS METTALIC WASTE:	0.0 kg

SITE ID NO.: 100 KE*3

ALIAS: 183 KE Filter Water Facility

STATUS: Inactive

DIMENSIONS:

Length: 40 ft

Width: 3 ft

Depth: 3 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 464 ft

WATERTABLE: 68 ft

HRS Migration Score: 18.513

LOCATION: 100-K

COORDINATES: N(K)3175/W(K)4475

SITE DESCRIPTION:

A drainage trench 40 ft. long, 3 ft. wide, and 2 to 3 ft. deep. The trench was lined with sand and the sludge-water slurry was allowed to drain.

SERVICE DATES: 1955-1970

SERVICE HISTORY:

The site received sulfuric acid sludge which was removed from sulfuric acid storage tanks.

REFERENCES:

Documents: J.J. Dorian letter 11/4/85

Photographs: 122440-417-CN

Drawings: H-3-57210

SITE ID NO.: 100 KE*3

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: 100 KE*3

METALLIC WASTE

ALUMINIUM TUBES:	0.0 kg
ALUMINUM SPACERS:	0.0 kg
LEAD-CADMIUM POISON SLUGS	
Lead:	0.0 kg
Cadmium:	0.0 kg
GRAPHITE:	0.0 kg
DESICCANT:	0.0 kg
ALUMINIUM POISON SLUGS:	0.0 kg
BORON POISON SPLINES:	0.0 kg
LEAD:	0.0 kg
MERCURY:	700.0 kg
MISCELLANEOUS METTALIC WASTE:	0.0 kg

SITE ID NO.: 107-KE

STATUS: Inactive
DIMENSIONS:
Length:
Width:
Depth: 29 feet
Diameter: 250 feet

FACILITY: Retention Basins (3)
ELEVATION: 480 feet
WATERTABLE: 70 feet
HRS Migration Score: 76.910

LOCATION: 100-K
COORDINATES: N(K)565699/W426802, N(K)532850/W453651, N(K)53000/W480500

DESCRIPTION OF FACILITY:

Three carbon steel tanks, 250 ft. in diameter and 29 ft. deep. They have been backfilled with soil to a depth of about 4 feet.

DATE OF OPERATIONS: 1955 - 1971

DESCRIPTION OF WASTE:

Retained cooling water effluent from the 105 reactor for radioactive decay and thermal cooling prior to release to the Columbia River. 80% of the total radionuclide inventory is contained within the soil adjacent to the basins. Approximately 10 curies have leached into the concrete floor and walls.

UNPLANNED RELEASES:

The basin and its approximate 5 foot diameter effluent line has developed leaks during its operating life. The leak rate from the butterfly valves (that went to an adjacent trench) could have been as high as 5,000-10,000 gallons per minute. Most of the basin leakage was diverted to an open canal and disposed to the river.

EXTENT OF CONTAMINATION:

The extent of the contamination from these releases is well within the zone encompassed by the retention basin and is within the AC-5-40 permanent posting.

REFERENCES:

Documents: UNI-946
Photographs: 122440-317-CN
Drawings: H-1-20365 KE

SITE ID NO.: 116-KW-1

ALIAS: 115-KW Condensate Crib

STATUS: Inactive

DIMENSIONS:

Length: 40 ft

Width: 40 ft

Depth: 26 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 464 ft

WATERTABLE: 72 ft

HRS Migration Score: 40.093

LOCATION: 100-KW

COORDINATES: N75501/W69387

SITE DESCRIPTION:

Crib, with 6 ft. x 6 ft. bottom dimensions, 40 ft. x 40 ft. surface dimensions, and 26 ft. deep. The bottom is filled with coarse gravel to 10 ft. above bottom, backfilled over with dirt to grade. The distribution system is composed of a 4 in. pipe which leads into an 8 in. corrugated, perforated pipe which is 10.5 ft. long with two 6.5 ft. sections branching off at 45 degrees.

SERVICE DATES: 1955-1970

SERVICE HISTORY:

From 1955 to 1970 the site received condensate and other waste water from reactor gas purification systems. The site was retired in 1970.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-312-CN

Drawings: H-3-57210, H-1-23215 KW, H-1-23207, G-7-220

SITE ID NO.: 116-KW-1

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	800000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	81.90000	CE-144:	0.00000
C-14:	110.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00101	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00008
KR-85:	0.00000	EU-155:	0.00095
SR-90:	0.00622	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00011
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00004	BETA:	0.00000
CS-137:	0.00364	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 116-KW-2

ALIAS: 105 KW Storage Basin French Drain
STATUS: Inactive
DIMENSIONS:
Length: 0 ft
Width: 0 ft
Depth: 39 ft
Diameter: 10 ft

FACILITY: French Drain
ELEVATION: 464 ft
WATERTABLE: 68 ft
HRS Migration Score: 0.000

LOCATION: 100-K
COORDINATES: N(K)4691/W(K)6757

SITE DESCRIPTION:

A French Drain, 10 ft. in diameter, 39 ft. deep.

SERVICE DATES: 1955-1970

SERVICE HISTORY:

From 1955 to 1970, the site was used as an overflow weir for subdrainage from the 105-KW Storage Basin.

REFERENCES:

Documents: HW-43121
Photographs: 122440-414-CN
Drawings: H-3-57210, H-1-23215 KW, H-1-23207

SITE ID NO.: 116-KW-2

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 100 KW*1

ALIAS: 183 KW Filter Water Facility

STATUS: Inactive

DIMENSIONS:

Length: 4 ft

Width: 4 ft

Depth: 4 ft

Diameter: 0 ft

FACILITY: Dry Well

ELEVATION: 464 ft

WATERTABLE: 72 ft

HRS Migration Score: 40.093

LOCATION: 100-K

COORDINATES: N(K)3180/W(K)6590

SITE DESCRIPTION:

A dry sump, 4 ft. long x 4 ft. wide and 4 ft. deep with a wooden cover.

SERVICE DATES: 1955-1970

SERVICE HISTORY:

The site received sulfuric acid sludge which was removed from sulfuric acid storage tanks.

REFERENCES:

Documents: J.J. Dorian letter 11/4/85

Photographs: 122440-416-CN

Drawings: H-3-57210

SITE ID NO.: 100 KW*1

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: 100 KW*1

METALLIC WASTE

ALUMINIUM TUBES:	0.0 kg
ALUMINUM SPACERS:	0.0 kg
LEAD-CADMIUM POISON SLUGS	
Lead:	0.0 kg
Cadmium:	0.0 kg
GRAPHITE:	0.0 kg
DESICCANT:	0.0 kg
ALUMINIUM POISON SLUGS:	0.0 kg
BORON POISON SPLINES:	0.0 kg
LEAD:	0.0 kg
MERCURY:	200.0 kg
MISCELLANEOUS METTALIC WASTE:	0.0 kg

SITE ID NO.: 100 KW*2

ALIAS: 183 KW Filter Water Facility
STATUS: Inactive
DIMENSIONS:
Length: 0 ft
Width: 0 ft
Depth: 3 ft
Diameter: 3 ft

FACILITY: French Drain
ELEVATION: 464 ft
WATERTABLE: 72 ft
HRS Migration Score: 40.093

LOCATION: 100-K
COORDINATES: N(K)3100/W(K)6510

SITE DESCRIPTION:

A French Drain structure, 3 ft. in diameter and 3 ft. deep with an open bottom.

SERVICE DATES: 1955-1970

SERVICE HISTORY:

The site received sulfuric acid sludge which was removed from sulfuric acid storage tanks.

REFERENCES:

Documents: J.J. Dorian letter 11/4/85
Photographs:
Drawings: H-3-57210

SITE ID NO.: 100 KW*2

CHEMICALS DISPOSED

SODIUM DICHROMATE:	0.000 kg
SODIUM OXYLATE:	0 kg
SODIUM SULFAMATE:	0 kg
AMMONIUM:	0 kg
COPPER SULFATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SULFURIC ACID:	0 kg
SULFAMIC ACID:	0 kg
POTASSIUM BORATE:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: 100 KW*2

METALLIC WASTE

ALUMINIUM TUBES:	0.0 kg
ALUMINUM SPACERS:	0.0 kg
LEAD-CADMIUM POISON SLUGS	
Lead:	0.0 kg
Cadmium:	0.0 kg
GRAPHITE:	0.0 kg
DESICCANT:	0.0 kg
ALUMINIUM POISON SLUGS:	0.0 kg
BORON POISON SPLINES:	0.0 kg
LEAD:	0.0 kg
MERCURY:	200.0 kg
MISCELLANEOUS METTALIC WASTE:	0.0 kg

SITE ID NO.: 118-K

ALIAS: 100-K Burial Ground

STATUS: Inactive

DIMENSIONS:

Length: 1200 f

Width: 600 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 450 ft

WATERTABLE: 54 ft

HRS Migration Score: 6.076

LOCATION: 100-K

COORDINATES: N77375/W66991, N77375/W67286, N77330/W67183, N77323/W66955

SITE DESCRIPTION:

A burial ground, 1200 ft. long x 600 ft. wide, running northwest-southeast, with numerous pits, trenches and silos. The trench and pit dimensions varied greatly.

SERVICE DATES: 1955-1975

SERVICE HISTORY:

This burial ground contains numerous trenches and vertical steel pipes of various sizes containing radioactive solid waste from K and N Reactors. The stainless steel tubes from the N Reactor steam generators are buried in this burial ground.

REFERENCES:

Documents: UNI-946, HW-33305, HW-43121

Photographs: 122440-318-CN

Drawings: H-3-57210, H-1-34161, H-1-25021, M-1600-K #1, G-7-220

SITE ID NO.: 118-K

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	300 cubic meters
MASS:	100000 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	100000 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	10000 cubic meters
MASS:	1000000 kg
TOTAL WASTE MASS:	1000000 kg
TOTAL WASTE VOLUME:	10000 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	7.00000	CE-144:	0.00000
C-14:	1.56000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	2289.00000	EU-152:	47.20000
NI-63:	376.00000	EU-154:	84.60000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	7.60000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.21600
ZR-95:	0.00000	PU-240:	0.01380
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	25.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	7.60000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 118-K

METALLIC WASTE

ALUMINIUM TUBES:	46266.0 kg
ALUMINUM SPACERS:	145149.0 kg
LEAD-CADMIUM POISON SLUGS	
Lead:	41235.0 kg
Cadmium:	17145.0 kg
GRAPHITE:	146.0 kg
DESICCANT:	33.0 kg
ALUMINIUM POISON SLUGS:	9616.0 kg
BORON POISON SPLINES:	1360.0 kg
LEAD:	41730.0 kg
MERCURY:	0.0 kg
MISCELLANEOUS METTALIC WASTE:	2267.0 kg

SITE ID NO.: 100-K Burning Pit

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 100 ft

Width: 100 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Burning Pit

ELEVATION: 450 ft

WATERTABLE: 54 ft

HRS Migration Score: 0.000

LOCATION: 100-K

COORDINATES: N(K)3500/W(K)3500

SITE DESCRIPTION:

A pit, 100 ft. x 100 ft. surface dimensions, 10 ft. deep.

SERVICE DATES: 1955-1971

SERVICE HISTORY:

From 1955 to 1971, the site was used for the disposal of non-radioactive combustible materials, such as paint waste, office waste and chemical solvents.

REFERENCES:

Documents: UNI-946

Photographs: 122440-420-CN

Drawings: H-3-57210, G-7-220

SITE ID NO.: 100-K Burning Pit

SOLID WASTE DISPOSED

METALLIC WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
CONSTRUCTION WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
LABORATORY/OTHER WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
MISCELLANEOUS WASTE	
VOLUME:	0 cubic meters
MASS:	0 kg
TOTAL WASTE MASS:	0 kg
TOTAL WASTE VOLUME:	20000 cubic meters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: 107-KW

STATUS: Inactive
DIMENSIONS:
Length:
Width:
Depth: 29 feet
Diameter: 250 feet

FACILITY: Retention Basins (3)
ELEVATION: 480 feet
WATERTABLE: 70 feet
HRS Migration Score: 76.910

LOCATION: 100-K
COORDINATES: N(K)5245/W(K)6190, N(K)5245/W(K)6460, N(K)5245/W(K)6730

DESCRIPTION OF FACILITY:

Three carbon steel tanks, 250 ft. in diameter and 29 ft. deep. They have been backfilled with soil to a depth of about 4 feet.

DATE OF OPERATIONS: 1944 - 1970

DESCRIPTION OF WASTE:

Retained cooling water effluent from the 105 reactor for radioactive decay and thermal cooling prior to release to the Columbia River. 80% of the total radionuclide inventory is contained within the soil adjacent to the basins. Approximately 10 curies have leached into the concrete floor and walls.

UNPLANNED RELEASES:

The basin and its approximate 5 foot diameter effluent line has developed leaks during its operating life. The leak rate from the butterfly valves (that went to an adjacent trench) could have been as high as 5,000-10,000 gallons per minute. Most of the basin leakage was diverted to an open canal and disposed to the river.

EXTENT OF CONTAMINATION:

The extent of the contamination from these releases is well within the zone encompassed by the retention basin and is within the AC-5-40 permanent posting.

REFERENCES:

Documents: UNI-946
Photographs: 122440-316-CN
Drawings: H-1-23207

200-EAST AREA ENGINEERED-FACILITY SITES

The following sites are included in this section. To locate these sites, please refer to the appropriate area map in Appendix B, Volume 1, of this document.

200-East Area

216-A-1	216-A-36A	216-B-25	216-B-54
216-A-2	216-A-39	216-B-26	216-B-57
216-A-4	216-A-40	216-B-27	216-B-58
216-A-5	216-A-41	216-B-28	216-B-60
216-A-6	216-B-2-1	216-B-29	216-C-1
216-A-7	216-B-2-2	216-B-30	216-C-3
216-A-9	216-B-3-1	216-B-31	216-C-4
216-A-11	216-B-3-2	216-B-32	216-C-5
216-A-12	216-B-4	216-B-33	216-C-6
216-A-13	216-B-5	216-B-34	216-C-8
216-A-14	216-B-6	216-B-35	216-C-10
216-A-15	216-B-7A&B	216-B-36	218-E-1
216-A-16	216-B-8	216-B-37	218-E-2
216-A-17	216-B-9	216-B-38	218-E-2A
216-A-18	216-B-10A	216-B-39	218-E-3
216-A-19	216-B-10B	216-B-40	218-E-4
216-A-20	216-B-11A&B	216-B-41	218-E-5
216-A-21	216-B-12	216-B-42	218-E-5A
216-A-22	216-B-13	216-B-43	218-E-6
216-A-23A	216-B-14	216-B-44	218-E-7
216-A-23B	216-B-15	216-B-45	218-E-8
216-A-24	216-B-16	216-B-46	218-E-9
216-A-26A	216-B-17	216-B-47	218-E-12A
216-A-27	216-B-18	216-B-48	218-E-13
216-A-28	216-B-19	216-B-49	218-E-14
216-A-31	216-B-20	216-B-50	200-East Burning Pit
216-A-32	216-B-21	216-B-51	200-Area Con- struction Pit
216-A-33	216-B-22	216-B-52	
216-A-34	216-B-23	216-B-53A	
216-A-35	216-B-24	216-B-53B	

SITE ID NO.: 216-A-1

ALIAS: 216-A-1 Cavern

STATUS: Inactive

DIMENSIONS:

Length: 30 ft

Width: 30 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 668 ft

WATERTABLE: 274 ft

HRS Migration Score: 1.035

LOCATION: 200 East

COORDINATES: N41330/W47150 (Center of Crib)

SITE DESCRIPTION:

Crib composed of 6 in. perforated V.C.P. 30 ft. long, running horizontally at 9 ft. below grade, with two 30 ft. lengths of 6 in. perforated V.C.P. placed perpendicularly to the first length of pipe (forming an H pattern). Excavation bottom dimensions are 30 ft. X 30 ft., with approximately 6 ft. (11,000 cu. ft.) of coarse rock in the excavation bottom, backfilled over. Distance from waste release point to the site bottom is 17 ft. Sideslope: surface to 7 ft. deep is 1:1.5, 7 ft. to site bottom is 1:2.

SERVICE DATES: 1955-1955

SERVICE HISTORY:

From 11/55 to 12/55 the site received the depleted uranium waste from the cold startup run in the 202-A building. The site was retired in 12/55.

REFERENCES:

Documents: ARH-2806, RHO-CD-673

Photographs: 122440-17-CN, 122440-89-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-1

CHEMICALS DISPOSED

NITRATE:	80 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	98400 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00179	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.04610	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00571
ZR-95:	0.00000	PU-240:	0.00154
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.05160
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.18700
CS-137:	0.04840	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-2

ALIAS: 216-A-2 Cavern

STATUS: Inactive

DIMENSIONS:

Length: 20 ft

Width: 20 ft

Depth: 27 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 712 ft

WATERTABLE: 298 ft

HRS Migration Score: 4.392

LOCATION: 200 East

COORDINATES: N39515/W48278 (Center of crib)

SITE DESCRIPTION:

Crib, with 6 in. perforated V.C.P. There are two 20 ft. lengths forming a cross pattern placed horizontally 21 ft. below grade. The excavation has bottom dimensions of 20 ft. X 20 ft. and is 27 ft. deep with approximately 6 ft. (5,000 cu. ft.) of coarse rock fill, backfilled over. Sideslope: from grade to 21 ft. the slope is 1:1.5, from 21 ft. to 27 ft it is 2:1.

SERVICE DATES: 1956-1963

SERVICE HISTORY:

From 1/56 to 1/63 the site received organic wastes from the 202-A building. The site was retired in 1/63. The waste is low salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673

Photographs: 122440-197-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-2

CHEMICALS DISPOSED

NITRATE:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	70000 kg
PARAFFIN HYDROCARBON:	120000 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	230000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.02970	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1.01000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	7.42000
ZR-95:	0.00000	PU-240:	2.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.02620
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	5.16000
CS-137:	1.58000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-4

ALIAS: 216-A-4 Cavern
STATUS: Inactive
DIMENSIONS:
Length: 20 ft
Width: 20 ft
Depth: 25 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 710 ft
WATERTABLE: 305 ft
HRS Migration Score: 47.819

LOCATION: 200 East
COORDINATES: N39515/A48158 (Center of crib)

SITE DESCRIPTION:

Crib, with two 20 ft. lengths of 6 in. perforated V.C.P. forming a + pattern placed horizontally 18 ft. below grade. The excavation has bottom dimensions of 20 ft. X 20 ft., and is 26 ft. deep. The excavation has 8 ft. (10,000 cu. ft.) of coarse rock fill, which is backfilled over. Sideslope: from surface to 18 ft. deep, the slope is 1:1.5, from 18 ft. to site bottom it is 1:2.

SERVICE DATES: 1955-1958

SERVICE HISTORY:

From 12/55 to 12/58 the site received the laboratory cell drainage from the 202-A building, and the 291-A-1 stack drainage. The site was retired in 12/58. The waste is low salt, and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673
Photographs: 122440-192-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-4

CHEMICALS DISPOSED

NITRATE:	300 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	5000 kg
SODIUM:	4000 kg
SODIUM DICHROMATE:	110 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	6210000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.02260	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	4.81000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	7.99000
ZR-95:	0.00000	PU-240:	2.16000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.13400
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	24.20000
CS-137:	7.56000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-5

ALIAS: 216-A-5 Cavern

STATUS: Inactive

DIMENSIONS:

Length: 35 ft

Width: 35 ft

Depth: 32 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 678 ft

WATERTABLE: 313 ft

HRS Migration Score: 60.403

LOCATION: 200 East

COORDINATES: N39510/W48750 (Center of crib)

SITE DESCRIPTION:

Crib, with an 8 in. V.C.P. placed horizontally 24 ft. below grade, and two 35 ft. lengths of 8 in. V.C.P. placed perpendicularly to the first pipe, forming an H pattern. The excavation has bottom dimensions of 35 ft. X 35 ft. and is 32 ft. deep. approximately 8 ft. (21,000 cu. ft.) of coarse rock fill is backfilled over. Sideslope: from surface to 24 ft. deep, the slope is 1:1.5, from 24 ft. to the crib bottom it is 2:1.

SERVICE DATES: 1955-1961

SERVICE HISTORY:

From 12/55 to 11/61 the site received the process condensate from the 202-A building. From 11/61 to 10/66 the site was active, but received no waste (back-up for the 216-A-10 crib). From 10/66 to 10/66 the site received the process condensate from the 202-A building. The site was retired in 10/66. The waste is acidic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-200-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-5

CHEMICALS DISPOSED

NITRATE:	1000000 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	1630000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	3.32000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	45.60000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	3.71000
ZR-95:	0.00000	PU-240:	1.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.08810
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	120.00000
CS-137:	13.20000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-6

ALIAS: 216-A-6 Cavern

STATUS: Inactive

DIMENSIONS:

Length: 100 ft

Width: 100 ft

Depth: 19 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 688 ft

WATERTABLE: 290 ft

HRS Migration Score: 47.819

LOCATION: 200 East

COORDINATES: N39880/W47000 (Center of crib)

SITE DESCRIPTION:

Crib; with a 15 in. V.C.P. placed horizontally 12 ft. below grade the length of the crib. Five 100 ft. lengths of perforated 6 in. V.C.P. are placed perpendicularly to the first pipe at 20 ft. intervals. The excavation has 100 ft. X 100 ft. bottom dimensions and is 19 ft. deep. The site contains approximately 7 ft. (91,000 cu. ft.) of coarse gravel fill, backfilled over. Sideslope: from the surface to 7 ft. the slope is 1:1, from 7 ft. to the site bottom it is 2:1.

SERVICE DATES: 1955-1961, 1965-1970

SERVICE HISTORY:

From 11/55 to 1/61 the site received the steam condensate, the equipment disposal tunnel floor drainage, the water-filled door drainage, and the slug storage basin overflow waste from the 202-A building.

From 1/61 to 3/66 the site was inactive.

From 3/66 to 1/70 the site received the previously mentioned effluents again. The site was retired in 1/70. The waste is low salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-4-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-6

CHEMICALS DISPOSED

NITRATE:	10000 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	3400000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.18000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	48.40000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	2.03000
ZR-95:	0.00000	PU-240:	0.54800
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.05530
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	318.00000
CS-137:	115.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-7

ALIAS: 216-A-7 Cavern
STATUS: Inactive
DIMENSIONS:
Length: 10 ft
Width: 10 ft
Depth: 15 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 666 ft
WATERTABLE: 274 ft
HRS Migration Score: 57.887

LOCATION: 200 East
COORDINATES: N41205/W47200 (Center of crib)

SITE DESCRIPTION:

Crib, with a 6 in. perforated V.C.P. placed horizontally 10 ft. below grade. There is a 10 ft. length of 6 in. perforated V.C.P. placed perpendicularly to the first pipe, forming a + pattern. The excavation has 10 ft. X 10 ft. bottom dimensions, is 16 ft. deep, and filled with approximately 7 ft. (3500 cu. ft.) of coarse rock, backfilled over. Sideslope: from surface to 10 ft., the slope is 1:1, from 10 ft. to crib bottom it is 2:1.

SERVICE DATES: 1955-1959, 1959-1966

SERVICE HISTORY:

From 11/55 to 7/59 the site received the catch tank overflow waste, the sump waste, and the pump pit drainage from the 241-A-152 diversion box.
From 7/59 to 11/66 the site received the catch tank overflow waste and the pump pit drainage from the 241-A-152 diversion box.
From 11/66 to 11/66 the site received the TBP-soltrol organic inventory from the 202-A building. The site was retired in 11/66. The waste is low salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673
Photographs: 122440-88-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-7

CHEMICALS DISPOSED

NITRATE:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	100000 kg
PARAFFIN HYDROCARBON:	180000 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	326000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00204	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.47200	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.05710
ZR-95:	0.00000	PU-240:	0.01540
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00228
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	5.77000
CS-137:	2.52000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-9

ALIAS: None
STATUS: Inactive
DIMENSIONS:
Length: 420 ft
Width: 20 ft
Depth: 12 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 694 ft
WATERTABLE: 294 ft
HRS Migration Score: 57.887

LOCATION: 200 East
COORDINATES: N41000/W48355, N41297/W48652 (Center line of crib)

SITE DESCRIPTION:

Crib, with a 10 in. SCH 30 steel perforated pipe, placed horizontally 9 ft. below grade. The excavation has bottom dimensions of 420 ft. X 20 ft. and is 13 ft. deep. There is 5 ft. (65,000 cu. ft.) of gravel fill, backfilled over. The sideslope is 2:1.

SERVICE DATES: 1956-1958, 1958-1966, 1966-1969

SERVICE HISTORY:

From 3/56 to 2/58 the site received the acid fractionator condensate and the condenser cooling water from the 202-A bldg.
From 2/58 to 4/66 the site was inactive.
From 4/66 to 10/66 the site received N-Reactor decontamination waste via a manhole at the crib site.
From 10/66 to 8/69 the site was inactive.
From 8/69 to 8/69 the site received the acid fractionator condensate from the 202-A building.
The site was retired in 8/69. The waste is acidic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673
Photographs: 122440-184-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-9

CHEMICALS DISPOSED

NITRATE:	300000 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	981000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	4000.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00583	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	12.10000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.02850
ZR-95:	0.00000	PU-240:	0.00770
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00008
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	34.00000
CS-137:	5.07000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-11

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 30 ft

Diameter: 2.5 ft

FACILITY: French Drain

ELEVATION: 708 ft

WATERTABLE: 303 ft

HRS Migration Score: 1.035

LOCATION: 200 East

COORDINATES: N39780/W48050 (Center of french drain)

SITE DESCRIPTION:

French drain composed of two 30 in. diameter reinforced concrete pipes placed vertically end-to-end. The excavation is 10 ft. in diameter and 30 ft. deep, extending to a depth of 5 ft. below the drain bottom. Both the french drain and excavation are filled with 3 in. rock to the french drain top, and backfilled over.

SERVICE DATES: 1955-1972

SERVICE HISTORY:

From 1/55 to 1972 the site received the trap pit #1 drainage from the 202-A building. The waste was low salt and neutral/basic. The site contains <50 Ci of total beta activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-191-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-11

CHEMICALS DISPOSED

NITRATE:	100 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	100000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-12

ALIAS: None
STATUS: Inactive
DIMENSIONS:
Length: 0 ft
Width: 0 ft
Depth: 33 ft
Diameter: 2.5 ft

FACILITY: French Drain
ELEVATION: 708 ft
WATERTABLE: 305 ft
HRS Migration Score: 1.035

LOCATION: 200 East
COORDINATES: N39780/W48503 (Center of french drain)

SITE DESCRIPTION:

French drain composed of two 30 in. diameter reinforced concrete tile pipe, placed vertically end-to-end. The excavation is 10 ft. in diameter, 33 ft. deep, and it extends 5 ft. below the drain bottom. Both the french drain and the excavation are filled with gravel to the top of the french drain and backfilled over. Assume a 1:1 slope.

SERVICE DATES: 1955-1972

SERVICE HISTORY:

From 11/55 to 1972 the site received the steam trap pit #3 drainage from the 202-A building. The waste was low salt and neutral/basic. The site contains <50 Ci. of total beta activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-190-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-12

CHEMICALS DISPOSED

NITRATE:	100 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	100000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-13

ALIAS: None
STATUS: Inactive
DIMENSIONS:
Length: 0 ft
Width: 0 ft
Depth: 18 ft
Diameter: 2 ft

FACILITY: French Drain
ELEVATION: 708 ft
WATERTABLE: 308 ft
HRS Migration Score: 0.708

LOCATION: 200 East
COORDINATES: N39814/W49010 (Center of french drain)

SITE DESCRIPTION:

French drain, composed of two lengths of 3 ft. diameter concrete pipe placed vertically end-to-end. The drain is filled to a depth of 3 ft. with 2-3 in. rock. This drain has a bed of gravel around the lower section of pipe, extending a minimum of 1 ft. away from the pipe in all directions. Assume a 1:1 slope.

SERVICE DATES: 1956-1962

SERVICE HISTORY:

From 1/56 to 12/62 the site received the seal water from the air sampler vacuum pumps in the 202-A Bldg. The site was retired in 12/62 when the effluent flowrate exceeded the infiltration capacity. The waste is low salt, neutral/basic, and contains <1 Ci total beta activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-187-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-13

CHEMICALS DISPOSED

NITRATE:	1 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	10000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-14

ALIAS: None
STATUS: Inactive
DIMENSIONS:
Length: 0 ft
Width: 0 ft
Depth: 29 ft
Diameter: 2.5 ft

FACILITY: French Drain
ELEVATION: 708 ft
WATERTABLE: 306 ft
HRS Migration Score: 1.035

LOCATION: 200 East
COORDINATES: N39742/W48551 (Center of french drain)

SITE DESCRIPTION:

French drain, composed of two 30 in. diameter reinforced concrete pipes placed vertically end-to-end. The excavation is 10 ft. in diameter and 29 ft. deep, extending to a depth of 5 ft. below the drain bottom. Both the french drain and the excavation are filled with 3 in. rock to the french drain top, and backfilled over. Assume a 1:1 sideslope.

SERVICE DATES: 1956-1972

SERVICE HISTORY:

From 1/56 to 1972 the site received the vacuum cleaner filter and blower pit drainage from the 202-A Bldg. The waste was low salt, neutral/basic, and contains <1 Ci of total beta activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-189-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-14

CHEMICALS DISPOSED

NITRATE:	1 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	1000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-15

ALIAS: None
STATUS: Inactive
DIMENSIONS:
Length: 0 ft
Width: 0 ft
Depth: 44 ft
Diameter: 2 ft

FACILITY: French Drain
ELEVATION: 712 ft
WATERTABLE: 312 ft
HRS Migration Score: 1.035

LOCATION: 200 East
COORDINATES: N39516/W48656 (Center of french drain)

SITE DESCRIPTION:

French drain, composed of two lengths of 2 ft. diameter bell end reinforced concrete sewer pipe placed vertically end-to-end. The drain is filled 6 ft. with stone and has a 1/2 in. carbon steel cover. Assume a 1:1 slope.

SERVICE DATES: 1955-1972

SERVICE HISTORY:

From 1955 to 1972 the site received the drainage from the 216-A-10 process condensate sampler pit. The waste was acidic. The site contains <50 Ci total beta activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-199-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-15

CHEMICALS DISPOSED

NITRATE:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	1 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	10000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-16

ALIAS: 216-A-16 Dry Well
STATUS: Inactive
DIMENSIONS:
Length: 0 ft
Width: 0 ft
Depth: 17 ft
Diameter: 4 ft

FACILITY: French Drain
ELEVATION: 686 ft
WATERTABLE: 282 ft
HRS Migration Score: 1.035

LOCATION: 200 East
COORDINATES: N41191/W47443 (Center of french drain)

SITE DESCRIPTION:

French drain, composed of 42 in. diameter bell end concrete pipe (6 ft. long) placed vertically 11 ft. below grade. The drain is rock-filled and has a 3/4 in. carbon steel cover. Assume a 1:1 sideslope.

SERVICE DATES: 1956-1969

SERVICE HISTORY:

From 1/56 to 3/69 the site received the floor drainage and the 296-A-11 stack drainage from the 241-A-431 Bldg. The site was retired in 3/69. The waste is low salt, neutral/basic, and contains <10 Ci total beta activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-181-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-16

CHEMICALS DISPOSED

NITRATE:	1 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	122000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-17

ALIAS: 216-A-17 Drywell
STATUS: Inactive
DIMENSIONS:
Length: 0 ft
Width: 0 ft
Depth: 17 ft
Diameter: 3.5 ft

FACILITY: French Drain
ELEVATION: 686 ft
WATERTABLE: 282 ft
HRS Migration Score: 1.035

LOCATION: 200 East
COORDINATES: N41181/W47453 (Center of french drain)

SITE DESCRIPTION:

French drain, composed of 42 in. diameter bell end concrete pipe (6 ft. long) placed vertically 11 ft. below grade. The drain is rock filled and has a 3/4 in. carbon steel cover. Assume a 1:1 sideslope.

SERVICE DATES: 1956-1969

SERVICE HISTORY:

From 1/56 to 3/69 the site received the floor drainage and the 296-A-11 stack drainage from the 241-A-11 stack drainage from the 241-A-431 Bldg. The site was retired in 3/69. The waste is low salt, neutral/basic, and contains <1 Ci total beta activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673
Photographs: 122440-181-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-17

CHEMICALS DISPOSED

NITRATE:	1 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	60000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-18

ALIAS: 216-A-18 Excavation, 216-A-18 Grave, 216-A-18 Sump
STATUS: Inactive FACILITY: Trench
DIMENSIONS: ELEVATION: 656 ft
Length: 80 ft WATERTABLE: 255 ft
Width: 80 ft HRS Migration Score: 1.035
Depth: 15 ft
Diameter: 0 ft

LOCATION: 200 East
COORDINATES: N41860/W47000 (Center of pit)

SITE DESCRIPTION:

This was an excavation only (crib never built). The site has 80 ft. X 80 ft. bottom dimensions and is 15 ft. deep. The excavation was partially backfilled with dirt after use. The sideslope is 1:2.

SERVICE DATES: 1955-1955

SERVICE HISTORY:

From 11/55 to 1/56 the site received the depleted uranium waste from the cold start-up run at 202-A Bldg. The site was retired in 1/56.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-14-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-18

CHEMICALS DISPOSED

NITRATE:	730 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	488000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00179	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.04610	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00571
ZR-95:	0.00000	PU-240:	0.00154
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.47200
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.18900
CS-137:	0.04840	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-19

ALIAS: 216-A-19 Test Hole, 216-A-19 Grave, 216-A-19 Sump
STATUS: Inactive
DIMENSIONS: Length: 25 ft
Width: 25 ft
Depth: 15 ft
Diameter: 0 ft
FACILITY: Trench
ELEVATION: 652 ft
WATERTABLE: 247 ft
HRS Migration Score: 2.178

LOCATION: 200 East
COORDINATES: N41900/W46680 (Center of pit)

SITE DESCRIPTION:

Trench--the excavation has 25 ft. bottom dimensions and is 15 ft. deep. The excavation was backfilled after use.

SERVICE DATES: 1955-1956

SERVICE HISTORY:

From 11/55 to 1/56 the site received the 241-A-431 Bldg. contact condenser cooling water via the 216-A-34 ditch, and the depleted uranium waste from the cold start-up run at the 202-A Bldg. The site was retired in 1/56.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176, HW-43121
Photographs: 122440-12-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-19

CHEMICALS DISPOSED

NITRATE:	20000 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	1100000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00179	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.04610	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00571
ZR-95:	0.00000	PU-240:	0.00154
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	13.10000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.18700
CS-137:	0.04840	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-20

ALIAS: 216-A-20 Test Hole, 216-A-20 Sump, 216-A-20 Grave
STATUS: Inactive FACILITY: Trench
DIMENSIONS: ELEVATION: 652 ft
Length: 25 ft WATERTABLE: 255 ft
Width: 25 ft HRS Migration Score: 2.069
Depth: 15 ft
Diameter: 0 ft

LOCATION: 200 East
COORDINATES: N41875/W46540 (Center of pit)

SITE DESCRIPTION:

Trench--the excavation has 25 ft. X 25 ft. bottom dimensions and is 15 ft. deep. The excavation was backfilled with dirt after use.

SERVICE DATES: 1955-1956

SERVICE HISTORY:

From 11/55 to 11/56 the site received the 241-A-431 Bldg. contact condenser cooling water via the 216-A-34 ditch, and the depleted uranium waste from the cold start-up run at the 202-A Bldg.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176, HW-43121
Photographs: 122440-13-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-20

CHEMICALS DISPOSED

NITRATE:	210 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	961000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00179	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.04610	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00571
ZR-95:	0.00000	PU-240:	0.00154
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.13500
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.18700
CS-137:	0.04840	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-21

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 60 ft

Width: 16 ft

Depth: 19 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 711 ft

WATERTABLE: 310 ft

HRS Migration Score: 57.887

LOCATION: 200 East

COORDINATES: N39300/W48160 (Center of crib)

SITE DESCRIPTION:

Crib, with a new 4 in. SST distribution line running horizontally the length of the crib 7 ft. below grade. Branching horizontally from this distribution line are four 4 ft. sections of 4 in. tubing, and branching vertically at the same locations are four 8 ft. sections of 4 in. tubing, and branching vertically at the same locations are four 8 ft. sections of 4 in. SCH 48 perforated pipe running to the bottom of the crib. The excavation is V-shaped in cross-section, and is 60 ft. long and 19 ft. deep, with a sideslope of 1:1.5. The excavation has approximately 6 ft. (2,700 cu. ft.) of gravel fill, backfilled over.

SERVICE DATES: 1957-1965

SERVICE HISTORY:

From 10/57 to 6/58 the site received sump waste from the 293-A Bldg.

From 6/58 to 12/58 the site was inactive.

From 12/58 to 6/65 the site received the above effluent, lab cell drainage from the 202-A Bldg., and the 291-A-1 stack drainage.

The site was retired in 6/65 when the effluent flow rate exceeded the infiltration capacity. The waste is low salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-195-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-21

CHEMICALS DISPOSED

NITRATE:	9000 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	15000 kg
SODIUM:	11000 kg
SODIUM DICHROMATE:	300 kg
AMMONIUM NITRATE:	400000 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	77800000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.47100	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	8.24000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	8.56000
ZR-95:	0.00000	PU-240:	2.31000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00002	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.06530
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	181.00000
CS-137:	85.60000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-22

ALIAS: 216-A-22 French Drain

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 16 ft

Diameter: 6 ft

FACILITY: French Drain

ELEVATION: 708 ft

WATERTABLE: 298 ft

HRS Migration Score: 1.960

LOCATION: 200 East

COORDINATES: N40330/W48560 (Center of french drain)

SITE DESCRIPTION:

Crib, with two 4 in. U3-CD effluent pipes. One enters the crib from above--however it is not visible from grade. The other enters the crib horizontally 8 ft. below grade. The excavation is 16 ft. in diameter at grade and 6 ft. in diameter at the bottom, which is 16 ft. below grade with a slope of 2:1. Approximately 10 ft. (1,600 cu. ft.) of gravel fills the excavation bottom, backfilled over.

SERVICE DATES: 1956-1958

SERVICE HISTORY:

From 3/56 to 12/58 the site received the drainage from the 203-A Bldg. truck load-out apron, the sump waste from the 203-A Bldg. enclosure, and the heating coil condensate from the P-1 thru P-4 UNH tanks. The site was retired in 12/58. The waste is low salt, neutral/basic, and contains <1 ci total beta activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-186-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-22

CHEMICALS DISPOSED

NITRATE:	1 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	10000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-23A

ALIAS: None
STATUS: Inactive
DIMENSIONS:
Length: 0 ft
Width: 0 ft
Depth: 13 ft
Diameter: 3.5 ft

FACILITY: French Drain
ELEVATION: 686 ft
WATERTABLE: 282 ft
HRS Migration Score: 2.613

LOCATION: 200 East
COORDINATES: N41171/W47462 (Center of french drain)

SITE DESCRIPTION:

French drain, made of a 42 in. diameter bell-end concrete pipe, placed vertically 7 ft. below grade. The drain is filled with 3 ft. of rock and has a 3/4 in. carbon steel cover.

SERVICE DATES: 1957-1969

SERVICE HISTORY:

From 9/57 to 3/69 the site received the deentrainer tank condensate and the back flush waste from the 241-A-431 Bldg. The site was retired in 3/69. The waste is low salt, neutral/basic, and contains <50 Ci total beta activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-181-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-23A

CHEMICALS DISPOSED

NITRATE:	1 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	6000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-23B

ALIAS: None
STATUS: Inactive
DIMENSIONS:

Length: 0 ft
Width: 0 ft
Depth: 7 ft
Diameter: 3.5 ft

FACILITY: French Drain
ELEVATION: 686 ft
WATERTABLE: 282 ft
HRS Migration Score: 1.035

LOCATION: 200 East

COORDINATES: N41171/W47472 (Center of french drain)

SITE DESCRIPTION:

French drain, made of a 42 in. diameter bell-end concrete pipe, placed vertically 7 ft. below grade. The drain is filled with 3 ft. of rock and has a 3/4 in. carbon steel cover. Assume a 1:1 sideslope.

SERVICE DATES: 1957-1969

SERVICE HISTORY:

From 9/57 to 3/69 the site received the deentrainer tank condensate and the backflush waste from the 241-A-431 Bldg. The site was retired in 3/69. The waste is low salt, neutral/basic, and contains <5 Ci total beta activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-181-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-23B

CHEMICALS DISPOSED

NITRATE:	1 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	6000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-24

ALIAS: None
STATUS: Inactive
DIMENSIONS:
Length: 1400 ft
Width: 20 ft
Depth: 15 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 646 ft
WATERTABLE: 242 ft
HRS Migration Score: 57.887

LOCATION: 200 East
COORDINATES: N42256/W46920, N42512/W45278 (Center line of crib)

SITE DESCRIPTION:

Crib, with a 15 in. diameter (perforated bottom half), galvanized, corrugated pipe, placed horizontally approximately 10 ft. below grade. The excavation has bottom dimensions of 1,400 ft. X 20 ft. and is 15 ft. deep. there is approximately 4 ft. (146,000 cu. ft.) of gravel fill, which is backfilled over. The sideslope is 1.5:1.

SERVICE DATES: 1958-1966

SERVICE HISTORY:

From 5/58 to 1/66 the site received the condensate from the waste storage tanks in the 241-A and 241-AX tank farms. The site was retired in 1/66. The waste is low salt, and neutral/basic. This crib was believed to have been valved out in 1/66.

REFERENCES:

Documents: ARH-2806, RHQ-CD-673, HW-55176
Photographs: 122440-10-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-24

CHEMICALS DISPOSED

NITRATE:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	30000 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	200000 kg
BUTYL PHOSPHATES:	90000 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	820000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	1400.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.02190	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	20.10000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.28900
ZR-95:	0.00000	PU-240:	0.07790
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00002	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.01680
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	601.00000
CS-137:	292.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-26A

ALIAS: 216-A-25 Crib, 216-A-26 French Drain

STATUS: Inactive

DIMENSIONS:

Length: 0 ft
Width: 0 ft
Depth: 15 ft
Diameter: 3 ft

FACILITY: French Drain

ELEVATION: 708 ft

WATERTABLE: 306 ft

HRS Migration Score: 2.069

LOCATION: 200 East

COORDINATES: N39550/W48208 (Center of french drain)

SITE DESCRIPTION:

French drain, composed of three 5 ft. sections of 3 ft. diameter tile pipe, placed vertically end-to-end below grade.

SERVICE DATES: 1959-1965

SERVICE HISTORY:

From 3/59 to 7/65 the site received the floor drainage from the 291-A fan control room. The site was retired in 7/65. The waste is low salt, neutral/basic, and contains <1 Ci total beta activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-193-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-26A

CHEMICALS DISPOSED

NITRATE:	1 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	1000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-27

ALIAS: None
STATUS: Inactive
DIMENSIONS:
Length: 200 ft
Width: 10 ft
Depth: 14 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 713 ft
WATERTABLE: 308 ft
HRS Migration Score: 57.887

LOCATION: 200 East
COORDINATES: N39100/W48118, N39100/W48318 (Center line of crib)

SITE DESCRIPTION:

Crib, with a 6 in. SST perforated pipe, placed horizontally the length of the crib approximately 10 ft. below grade. The excavation has bottom dimensions of 200 ft. X 10 ft. and is 14 ft. deep. There is 6 ft. (24,000 cu. ft.) of gravel fill in the excavation bottom, backfilled over. The sideslope is 1:1.5.

SERVICE DATES: 1965-1970

SERVICE HISTORY:

From 6/65 to 7/70 the site received the sump waste from the 293-A Bldg., the lab cell drainage from the 202-A Bldg., and the 291-A-1 stack drainage. The site was retired in 7/70. The waste is low salt, and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-203-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-27

CHEMICALS DISPOSED

NITRATE:	5000 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	9000 kg
SODIUM:	6000 kg
SODIUM DICHROMATE:	200 kg
AMMONIUM NITRATE:	300000 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	23100000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.30000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	26.90000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	5.51000
ZR-95:	0.00000	PU-240:	1.49000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00019	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.02280
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	123.00000
CS-137:	35.30000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-28

ALIAS: 216-A-28 French Drain

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 11 ft

Diameter: 20 ft

FACILITY: French Drain

ELEVATION: 708 ft

WATERTABLE: 298 ft

HRS Migration Score: 47.819

LOCATION: 200 East

COORDINATES: N40340/W48575 (Center of french drain)

SITE DESCRIPTION:

Crib, with a 4 in. SST 304 perforated pipe, 17 ft. long, extending horizontally 4 ft. below grade. The excavation has a 20 ft. diameter at grade, and a 10 ft. bottom diameter, with a truncated cone shape. The excavation has approximately 9 ft. (1,100 cu. ft.) of gravel fill, backfilled over.

SERVICE DATES: 1958-1967

SERVICE HISTORY:

From 12/58 to 11/67 the site received the liquid waste from the 203-A Bldg. enclosure sumps and the heating coil condensate from the P1 thru P4 UNH tanks. The site was retired in 11/67 when the effluent flow rate exceeded the infiltration capacity. The waste is low salt, and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-185-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-28

CHEMICALS DISPOSED

NITRATE:	300 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	30000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.21200
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.01010
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-31

ALIAS: 216-A-32 Crib
STATUS: Inactive
DIMENSIONS:
Length: 70 ft
Width: 10 ft
Depth: 24 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 704 ft
WATERTABLE: 310 ft
HRS Migration Score: 1.035

LOCATION: 200 East
COORDINATES: N39370/W48290, N39370/W48360 (Center line of crib)

SITE DESCRIPTION:

Crib, with a 3 in. SCH 10 SST perforated pipe, placed horizontally 21 ft. below grade. The excavation has bottom dimensions of 70 ft. X 10 ft. and is 24 ft. deep. The excavation has 6 ft. (9,000 cu. ft.) of gravel fill, backfilled over. The sideslope is 1:1.5.

SERVICE DATES: 1963-1965

SERVICE HISTORY:

From 7/64 to 11/66 the site received organic waste from the 202-A Bldg. The site was retired in 11/66. This was the date of the last discharge to the crib. The waste is low salt, and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-194-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-31

CHEMICALS DISPOSED

NITRATE:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	2900 kg
PARAFFIN HYDROCARBON:	5200 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	10000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00588	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1.15000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.51400
ZR-95:	0.00000	PU-240:	0.13900
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.01730	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00686
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	178.00000
CS-137:	89.40000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-32

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 70 ft

Width: 8 ft

Depth: 12 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 697 ft

WATERTABLE: 293 ft

HRS Migration Score: 0.000

LOCATION: 200 East

COORDINATES: N40148/W47811, N40212/W47782 (Center line of crib)

SITE DESCRIPTION:

A crib, 70 ft long x 8 ft. wide and 12 ft. deep. The excavation has 6 ft. of gravel fill, backfilled over.

SERVICE DATES: 1959-1972

SERVICE HISTORY:

Received 202-A crane maintenance floor, sink and shower drainage.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-202-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-32

CHEMICALS DISPOSED

NITRATE:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	4000 Liters

No chemicals discharged to this site.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-33

ALIAS: 216-A-33 Dry Well

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 12 ft

Diameter: 6 ft

FACILITY: French Drain

ELEVATION: 716 ft

WATERTABLE: 305 ft

HRS Migration Score: 0.000

LOCATION: 200 East

COORDINATES: N39617/W48310 (Center of french drain)

SITE DESCRIPTION:

The was designed to receive the bearing coolant waste from the 291-A-1 stack electrical exhaust fans, but no coolant was used therefore none was discharged. The site was retired im 1964.

SERVICE DATES: 1956-1964

SERVICE HISTORY:

From 11/55 to,7/64 the site received the bearing coolant waste from the 291-A-1 stack electrical exhaust fans. The site was retired in 7/64. The waste is low salt, neutral/basic, and contains <1 Ci of total beta activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-198-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-33

CHEMICALS DISPOSED

NITRATE:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

No chemicals discharged to this site.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-34

ALIAS: 216-A-34 Crib

STATUS: Inactive

DIMENSIONS:

Length: 280 ft

Width: 30 ft

Depth: 3 ft

Diameter: 0 ft

FACILITY: Ditch

ELEVATION: 659 ft

WATERTABLE: 255 ft

HRS Migration Score: 1.089

LOCATION: 200 East

COORDINATES: N41710/W46800 (Head), N41900/W46680 (End)

SITE DESCRIPTION:

Ditch, with a 15 in. inlet pipe placed 2 ft. below grade. the excavation is 280 ft. X 30 ft. at the east end and 10 ft. at the west end. The sideslope is 1:2.

SERVICE DATES: 1955-1957

SERVICE HISTORY:

From 11/55 to 12/57 the site received the cooling water from the contact condenser in the 241-A-431 Bldg. The site was retired in 12/57. The site contains <1 Ci total beta activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-15-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-34

CHEMICALS DISPOSED

NITRATE:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

Inventory included in 216-A-19 and 216-A-20.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-35

ALIAS: 216-A-35 Dry Well
STATUS: Inactive
DIMENSIONS:
Length: 0 ft
Width: 0 ft
Depth: 16 ft
Diameter: 6 ft

FACILITY: French Drain
ELEVATION: 708 ft
WATERTABLE: 308 ft
HRS Migration Score: 1.035

LOCATION: 200 East
COORDINATES: N39800/W49003 (Center of french drain)

SITE DESCRIPTION:

French drain that is 6 ft. in diameter. This was a replacement for the 216-A-13 french drain.

SERVICE DATES: 1963-1966

SERVICE HISTORY:

From 12/63 to 1/66 the site received the seal cooling water from the air sampler vacuum pumps in the 202-A Bldg. The site was retired in 1/66. The waste is low salt, neutral/basic, and contains less than 1 Ci total beta activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-188-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-35

CHEMICALS DISPOSED

NITRATE:	1 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	10000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-36A

ALIAS: 216-A-36 Crib
STATUS: Inactive
DIMENSIONS:
Length: 100 ft
Width: 11 ft
Depth: 22 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 713 ft
WATERTABLE: 314 ft
HRS Migration Score: 50.336

LOCATION: 200 East
COORDINATES: N39000/W48525, N39100/W48525 (Center line of crib)

SITE DESCRIPTION:

Crib, with a 6 in. M-8 perforated pipe, placed horizontally 21 ft. below grade. The excavation has bottom dimensions of 100 ft. x 11 ft. and is 22 ft. deep. The excavation has 2 ft. (4,500 cu. ft.) of gravel fill, backfilled over. The sideslope is 1.5:1.5.

SERVICE DATES: 1965-1966

SERVICE HISTORY:

From 9/65 to 3/66 the site received the ammonia scrubber waste from the 202-A Bldg. The site was retired in 3/66. The waste is low salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-114-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-36A

CHEMICALS DISPOSED

NITRATE:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	30000 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	1070000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.71000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1080.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	4.57000
ZR-95:	0.00000	PU-240:	1.23000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00155	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.04860
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	4010.00000
CS-137:	924.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-39

ALIAS: 216-A-40 Crib, 216-A-40 Trench

STATUS: Inactive

DIMENSIONS:

Length: 90 ft

Width: 2 ft

Depth: 6 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 664 ft

WATERTABLE: 280 ft

HRS Migration Score: 0.980

LOCATION: 200 East

COORDINATES: N41860/W47489 (Center line of crib)

SITE DESCRIPTION:

A trench approximately 3 feet deep was dug from the door of the 801 Building to the brow of the north hill, then over the hill to the flat ground below where it was extended eastward approximately 90 feet. A hole was cut through the back side of the 801 Building and a fire hose was inserted to wash the contamination into the trench. The first trench was covered with soil and a second trench, paralleling the first, was dug to receive a second washing. The trench was backfilled and covered.

SERVICE DATES: 1966-1966

SERVICE HISTORY:

In 1966 the site received the floor drainage from the 241-AX-801-B Building. A process operator, maintenance instrument man, and a radiation monitor were changing out a valve on the 103AX tank recirculator line when highly radioactive waste liquid pressureized in the line and flowed out onto the floor of the instrument building. Dose rates from the spill were greater than 5 R/hr at a distance of 10 feet from the spill.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176, RHO-CD-1048

Photographs: 122440-204-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-39

CHEMICALS DISPOSED

NITRATE:	6 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	20 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	29.90000
CS-137:	24.30000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-40

ALIAS: 216-A-39 Ditch, 216-A-40 Ditch

STATUS: Inactive

DIMENSIONS:

Length: 400 ft

Width: 20 ft

Depth: 16 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 683 ft

WATERTABLE: 284 ft

HRS Migration Score: 32.718

LOCATION: 200 East

COORDINATES: N41519/W48209, N41868/W48404 (Center line of trench)

SITE DESCRIPTION:

Open trench, lined and compartmented into 3 sections, with 400 ft. x 20 ft. bottom dimensions, and approximately 16 ft. deep. There is a 12 in. SCH 40 pipe running horizontally 74 ft. through the south end of the trench 12 ft. below grade. A 5 ft. pipe section is connected perpendicularly to the 12 in. pipe forming a T. The sideslope is 1:1.5.

SERVICE DATES: 1968-1979

SERVICE HISTORY:

From 1/68 to 5/79 the site received the diverted cooling water and steam condensate from the 244-Ar Vault. The site was taken out of service temporarily in 5/79 due to a leak in the bag liner.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-180-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-40

CHEMICALS DISPOSED

NITRATE:	1 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	946000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-A-41

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 10 ft

Width: 10 ft

Depth: 6 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 683 ft

WATERTABLE: 285 ft

HRS Migration Score: 1.035

LOCATION: 200 East

COORDINATES: N41420/W48082 (Center of crib)

SITE DESCRIPTION:

Crib, with six 8 in. x 8 in. x 16 in. bond beam concrete blocks placed end-to-end to form the dispersion structure 4 ft. below grade. The excavation has 10 ft. x 10 ft. bottom dimensions and is 6 ft. deep. There is 2 ft. (290 cu. ft.) of gravel fill, which is backfilled over. The sideslope is 1:1.

SERVICE DATES: 1968-1974

SERVICE HISTORY:

From 1/68 to 1974 the site received the 296-A-13 stack drainage. The site was retired in 1974. The waste is potentially slightly acidic and contains less than 1 Ci total beta activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-182-CN, 122440-183-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-A-41

CHEMICALS DISPOSED

NITRATE:	1 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
AMMONIUM NITRATE:	0 kg
AMMONIUM CARBONATE:	0 kg
BUTYL PHOSPHATES:	0 kg
SODIUM OXALATE:	0 kg
TOTAL VOLUME DISPOSED:	10000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-2-1

ALIAS: B Ditch, 216-B-2

STATUS: Inactive

DIMENSIONS:

Length: 3500 ft

Width: 15 ft

Depth: 6 ft

Diameter: 0 ft

FACILITY: Ditch

ELEVATION: 644 ft

WATERTABLE: 255 ft

HRS Migration Score: 0.000

LOCATION: 200 East

COORDINATES: N44975/W51900 (Head), N44175/W48550 (End)

SITE DESCRIPTION:

Ditch, 3500 ft. x 15 ft. at surface by 6 ft. deep which has been backfilled. Side slope is 2.5:1.

SERVICE DATES: 1945-1963

SERVICE HISTORY:

From 4/45 to 3/52 the site transported steam condensate, process cooling water, and chemical sewer from 221-B waste towards 216-B-3 Pond. From 3/52 to 11/63 as above, plus 241-CR Vault cooling water. The site was retired in 1963 and backfilled in 1964.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-98-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-2-1

CHEMICALS DISPOSED

SODIUM:	0 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	0 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	0 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 149000000000 Liters

Chemical spillage occurred-quantities unknown.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-2-2

ALIAS: 216-B-2-2W, 216-B-1 Ditch

STATUS: Inactive

DIMENSIONS:

Length: 2350 ft

Width: 15 ft

Depth: 8 ft

Diameter: 0 ft

FACILITY: Ditch

ELEVATION: 644 ft

WATERTABLE: 255 ft

HRS Migration Score: 45.303

LOCATION: 200 East

COORDINATES: N44930/W51990 (Head), N44180/W48525 (End)

SITE DESCRIPTION:

Ditch, 2350 ft. at surface with a width of 15 ft. at the bottom and a depth of 8 ft. Side slope is 2.5:1. This ditch has been backfilled.

SERVICE DATES: 1963-1970

SERVICE HISTORY:

From 11/63 to 1/65 the site transported and percolated the 241-CR Vault cooling water, 221-B cooling cooling water, steam condensate and chemical sewer toward 216-B-3 Pond.

From 1/65 to 11/67 same as above with addition of 241-BY Tank Farms ITS (in tank solidification) Unit 1 cooling water.

From 2/68 to 4/70 same as above plus 241-BY Tank Farm ITS Unit 2.

From 4/70 to 5/70 the site received cleanup waste from the 207-B. The site was retired and backfilled in 1970.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-97-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-2-2

CHEMICALS DISPOSED

SODIUM:	0 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	0 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	0 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 149000000000 Liters

Chemical spillage occurred-quantities unknown.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	235.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00240
ZR-95:	0.00000	PU-240:	0.00060
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	479.00000
CS-137:	0.49000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-3-1

ALIAS: B Swamp Ditch, 216-B-3 Ditch, 216-B-2

STATUS: Inactive

DIMENSIONS:

Length: 3200 ft

Width: 6 ft

Depth: 6 ft

Diameter: 0 ft

FACILITY: Ditch

ELEVATION: 574 ft

WATERTABLE: 155 ft

HRS Migration Score: 0.000

LOCATION: 200 East

COORDINATES: N43700/W47000 (Head), N43645/W45760 (End)

SITE DESCRIPTION:

Ditch, 3200 ft. x approximately 6 ft. at the surface widening to 80 ft. where it entered the pond extending from 200-E Area perimeter fence to 216-B-3 Pond. A ditch (216-A-29) joined it and it also widened into a swamp before entering the pond. Side slope is 2.5:1.

SERVICE DATES: 1945-1964

SERVICE HISTORY:

From 4/45 to 3/62 the site percolated and transported 221-B Plant steam condensate, process cooling water, chemical sewer waste, and 284-E Powerhouse waste. From 3/52 to 11/55 same as above plus 241-CR Vault cooling water. From 11/55 to 12/57 same as above plus effluent from 216-A-29 Ditch. Wastes include 202-A process cooling water. From 12/57 to 2/58 same as above minus 202-A process cooling water. From 2/58 to 12/62 same as above plus 202-A acid fractionater condensate. From 12/62 to 12/63 same as above plus 202-A seal cooling water from air sampler vacuum pumps. From 12/63 to 7/64 same as above minus 202-A seal cooling water. The ditch was backfilled & retired in 1964.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-213-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-3-1

CHEMICALS DISPOSED

SODIUM:	0 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	0 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	0 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 149000000000 Liters

Chemical spillage occurred-quantities unknown.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-3-2

ALIAS: 216-B-2-2E, 216-B-1 Ditch, B Swamp Ditch

STATUS: Inactive

FACILITY: Ditch

DIMENSIONS:

ELEVATION: 600 ft

Length: 3700 ft

WATERTABLE: 155 ft

Width: 15 ft

HRS Migration Score: 0.000

Depth: 6 ft

Diameter: 0 ft

LOCATION: 200 East

COORDINATES: N43700/W47000 (Head), N43250/W43650 (End)

SITE DESCRIPTION:

Ditch, 3700 ft. x 15 ft. (ground level) x 4-8 ft. deep. It was backfilled in July 1970 after a release of Sr-90 from 221-B Plant. 1000 ft. above the pond outfall the 216-A-29 Ditch entered the 216-B-3-3 Ditch.

SERVICE DATES: 1964-1970

SERVICE HISTORY:

From 7/64 to 1/65 the site transported 221-B Plant process cooling water, steam condensate and chemical sewer; 241-CR Vault cooling water; 284-E Powerhouse water; and received and transported 202-A chemical sewer waste and fractionator condensate from 216-A-29 ditch. From 1/65 to 1/66 same as above plus 241-TY Tank Farm ITS Unit 1 condenser cooling water. From 1/66 to 11/67 same plus condenser cooling water and air sampler vacuum pump seal cooling water from 202-A Bldg. From 11/67 to 2/68 same minus 284-E Powerhouse waste water. From 2/68 to 9/70 same plus 241--BY Tank Farm ITS unit 2 condenser cooling water. The site was retired in 9/70 and backfilled in 11/70.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-210-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-3-2

CHEMICALS DISPOSED

SODIUM:	0 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	0 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	0 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 149000000000 Liters

Chemical spillage occurred-quantities unknown.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-4

ALIAS: 216-B-4 French Drain, 216-B-4 Dry Well

STATUS: Inactive

DIMENSIONS:

Length: 0 ft
Width: 0 ft
Depth: 110 ft
Diameter: .67 ft

FACILITY: Reverse Well

ELEVATION: 702 ft

WATERTABLE: 300 ft

HRS Migration Score: 47.819

LOCATION: 200 East

COORDINATES: N42363/W53603 (Center of crib)

SITE DESCRIPTION:

Reverse Well, composed of an 8 in. diameter well casing, 110 ft. deep.

SERVICE DATES: 1945-1949

SERVICE HISTORY:

From 4/45 to 8/47 the site received 291-B stack drainage. From 8/47 to 12/49 the site received floor drainage from 292-B Bldg. The site was retired in 12/49.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-73-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-4

CHEMICALS DISPOSED

SODIUM:	0 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	1000 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	0 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	0 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 10000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-5

ALIAS: 216-B-361 Reverse Well, 241-B-361 Dry Well

STATUS: Inactive

FACILITY: Reverse Well

DIMENSIONS:

ELEVATION: 683 ft

Length: 0 ft

WATERTABLE: 283 ft

Width: 0 ft

HRS Migration Score: 60.403

Depth: 302 ft

Diameter: .67 ft

LOCATION: 200 East

COORDINATES: N43480/W52855 (Center of well)

SITE DESCRIPTION:

Reverse Well, 302 ft. long, composed of vertical piping with various sizes in section:

- 16 in. piping from ground level to 13 ft.
- 12 in. piping placed inside 16 in. section extending to 100 ft.
- 10 in. piping placed inside 12 in., extending to 242 ft.
- 10 in. piping placed inside 12 in., extending to 242 ft.
- 8 in. piping placed inside 10 in., extending to 302 ft. below grade, the lower most 50 ft. section of the 8 in. pipe is perforated.

SERVICE DATES: 1945-1947

SERVICE HISTORY:

From 4/45 to 9/46 the site received supernatant overflow from 241-B-361 Settling Tank, waste via 5-6 Tank in 221-B Bldg. and liquid waste from 2240 B Bldg. From 9/46 to 10/47 received the cell drainage and other liquid waste via tank 5-6 in 221-B. Rerouted the 224-B effluent to the new 216-B-7A Cribs. The site was retired in 10/47.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-101-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-5

CHEMICALS DISPOSED

SODIUM:	350000 kg	FERROCYANIDE:	0 kg
POTASSIUM:	80000 kg	FLUORIDE:	50000 kg
AMMONIUM NITRATE:	5000 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	12000 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	400000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	3300 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	29000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 30600000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	27.90000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	244.00000
ZR-95:	0.00000	PU-240:	65.70000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	117.00000
CS-137:	31.80000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-6

ALIAS: 222-B-110 Reverse Well, 216-B-6 Dry Well

STATUS: Inactive

FACILITY: Reverse Well

DIMENSIONS:

ELEVATION: 701 ft

Length: 0 ft

WATERTABLE: 296 ft

Width: 0 ft

HRS Migration Score: 50.336

Depth: 75 ft

Diameter: .5 ft

LOCATION: 200 East

COORDINATES: N42403/W53870 (Center of well)

SITE DESCRIPTION:

Reverse Well, consisting of 3 in. tubing reaching 75 ft. below grade. Ther lower 25 ft. of casing is perforated with 1/2 in. holes for every foot. The vent pipe was cut below grade. There is a 4 ft. concrete post marking the location of this site.

SERVICE DATES: 1945-1949

SERVICE HISTORY:

From 4/45 to 12/49 the site received decontamination sink and sample slurper waste from 222-B Bldg. The site was retired in 12/49.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-72-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-6

CHEMICALS DISPOSED

SODIUM:	0 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	10000 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	0 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	10000 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	0 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	100 kg		

TOTAL VOLUME DISPOSED: 6000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	10.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-7A & B

ALIAS: 241-B-1 Crib, 216-B-7 Crib, 216-B-7A Sump

STATUS: Inactive

FACILITY: Crib

DIMENSIONS:

ELEVATION: 644 ft

Length: 14 ft

WATERTABLE: 241 ft

Width: 14 ft

HRS Migration Score: 65.437

Depth: 14 ft

Diameter: 0 ft

LOCATION: 200 East

COORDINATES: N45602/W52764 (Center of crib)

SITE DESCRIPTION:

2 wooden cribs, placed side by side, each 12 ft. x 12 ft. x 4 ft. high sitting in 14 ft. x 14 ft. x 14 ft. excavation. Wooden parts for each crib consist of frames of 6 in. x 6 in. timbers (72 linear ft.) Effluent drained into 216-B-7A and 216-B-7B simultaneously by using a T fitting in the pipe. Side slope is 1.5:1.

SERVICE DATES: 1946-1967

SERVICE HISTORY:

From 9/46 to 10/47 the site received the liquid waste from 224-B via overflow of 201-B Settling Tank. From 10/47 to 8/48 same as above plus the cell drainage and other liquid waste via tank 5-6 in 221-B. From 8/48 to 12/54 the site received liquid waste from 224-B. From 12/54 to 10/61 the site received 5-6 cell drainage and equipment cleanout waste from 224-B. From 10/61 to 5/67 the site received decontamination construction waste from 221-B. The site was retired in 5/67.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-81-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-7A & B

CHEMICALS DISPOSED

SODIUM:	1600000 kg	FERROCYANIDE:	0 kg
POTASSIUM:	400000 kg	FLUORIDE:	240000 kg
AMMONIUM NITRATE:	22000 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	60000 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1800000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	15000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	130000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 43600000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01210	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	2420.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	246.00000
ZR-95:	0.00000	PU-240:	66.20000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.06100
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	4930.00000
CS-137:	31.80000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-8

ALIAS: 241-B-3 Crib

STATUS: Inactive

DIMENSIONS:

Length: 299 ft

Width: 100 ft

Depth: 23 ft

Diameter: 0 ft

FACILITY: Crib/Tile Field

ELEVATION: 636 ft

WATERTABLE: 230 ft

HRS Migration Score: 1.416

LOCATION: 200 East

COORDINATES: Crib-N45880/W52840 (Center); Tile Field-N45880/W52840, N461
43/W52695

SITE DESCRIPTION:

Crib with a tile field. The crib is a 12 ft. x 12 ft. x 7 ft. high wooden structure made of 6 in. x 6 in. timbers. It sits in a 14 ft. x 14 ft. x 22.5 ft. deep excavation. The tile field is 300 ft. long and 100 ft. wide. The maintrunk is 12 in. VCP running northeast of the crib. Eight side branches from the main trunk, 2 each leave at 40 ft., 110. ft., 180 ft. and 250 ft. Each extends 70 ft. at a 45 degree angle to the trunk. There is 4 ft. of gravel below and 6 in. of gravel above the pipe. The excavation for the tile field as 4 ft. bottom dimensions and a 1:1.5 sideslope.

SERVICE DATES: 1945-1952

SERVICE HISTORY:

From 4/48 to 7/51 the site received second cycle waste supernatant from 221-B building. From 7/51 to 12/51 the site received the above, plus cell drainage and other liquid waste via tank 5-6 in 221-B bldg. From 12-51 to 12-52 the site received decontamination and cleanup waste generated during the shutdown of 224-B. The site was retired in 7/53. The waste is high salt, neutral/basic, and contains transuranics and fission products.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-77-CN, 122440-80-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-8

CHEMICALS DISPOSED

SODIUM:	900000 kg	FERROCYANIDE:	0 kg
POTASSIUM:	40000 kg	FLUORIDE:	25000 kg
AMMONIUM NITRATE:	160000 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	6000 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1400000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	70000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	500000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 27200000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00900	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	6.12000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	1.70200
ZR-95:	0.00000	PU-240:	0.46200
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	53.70000
CS-137:	21.57000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-9

ALIAS: 241-B-361 Crib, 216-B-361 Crib

STATUS: Inactive

DIMENSIONS:

Length: 194 ft

Width: 64 ft

Depth: 30 ft

Diameter: 0 ft

FACILITY: Crib/Tile Field

ELEVATION: 678 ft

WATERTABLE: 275 ft

HRS Migration Score: 1.035

LOCATION: 200 East

COORDINATES: N43757/W52617 (Crib), N43764/W52575, N43764/W52660, N43951/
W52660, N43951/W52575

SITE DESCRIPTION:

Crib, a wooden structure, 14 ft. x 14 ft. x 7 ft. high, sitting in an excavation. Timbers used are 6 in. x 6 in. The tile field (180 ft. x 84 ft.) is 540 linear ft. of 6 in. clay tile pipe with each leg in a trench with 4 ft. bottom width. Pipes are buried 12 ft. deep at head, 6 ft. at end. There are 18 in. of gravel below and above the pipes. Pipes have roofing felt covering the top side. Three 60 ft. legs branch from each side of clay pipe, leaving at 45 degrees to the trunk. The sideslope is 1:1.5.

SERVICE DATES: 1948-1951

SERVICE HISTORY:

From 8/48 to 7/51 the site received cell drainage and other liquid waste via Tank 5-6 in 221-B Building. The site was retired in 7/51. The waste is low salt and neutral/basic. The waste contains transuranics and fission products.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-100-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-9

CHEMICALS DISPOSED

SODIUM:	0 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	0 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 36000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00090	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	6.05000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	9.94000
ZR-95:	0.00000	PU-240:	2.68000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.01520
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	21.80000
CS-137:	4.28000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-10A

ALIAS: 222-B-1 Crib, 216-B-10 Crib, 292-B

STATUS: Inactive

DIMENSIONS:

Length: 14 ft

Width: 14 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 704 ft

WATERTABLE: 300 ft

HRS Migration Score: 47.819

LOCATION: 200 East

COORDINATES: N42195/W53868 (Center of crib)

SITE DESCRIPTION:

Crib, a 12 ft. x 12 ft. x 3.5 ft. wooden structure in a 14 ft. x 14 ft. x 20 ft. excavation. The sideslope is 1:1.

SERVICE DATES: 1949-1952

SERVICE HISTORY:

From 12/49 to 12/51 the site received the decontamination sink and sample slurper waste from 222-B building, and floor drainage from 292-B building. From 12/51 to 1/52 the site received the same as above minus the 222-B building waste. The site was retired in 1/52. The waste is acidic and contains transuranics and fission products.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-67-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-10A

CHEMICALS DISPOSED

SODIUM:	0 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	1000 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	1000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	100 kg		

TOTAL VOLUME DISPOSED: 9990000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00099	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	2.07000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.56000
ZR-95:	0.00000	PU-240:	0.15100
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00304
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.43700	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-10B

ALIAS: 222-B-2 Crib, 216-B-10 Crib

STATUS: Inactive

DIMENSIONS:

Length: 14 ft

Width: 14 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 704 ft

WATERTABLE: 300 ft

HRS Migration Score: 1.035

LOCATION: 200 East

COORDINATES: N42195/W53943 (Center of crib)

SITE DESCRIPTION:

Crib, a 12 ft. x 12 ft. x 3.5 ft. high wooden box structure in a 14 ft. square x 20 ft. deep excavation. The slideslope is 1:1.

SERVICE DATES: 1948-1973

SERVICE HISTORY:

From 6/69 to 10/73 the site received the decontamination sink and shower waste from 221-B building. The site was retired in 10/73.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-68-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-10B

CHEMICALS DISPOSED

SODIUM:	0 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	2 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	0 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	0 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 28000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00021	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00058
CS-137:	0.00008	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-11A & B

ALIAS: 242-B-1 Crib, 216-B-11 Crib

STATUS: Inactive

DIMENSIONS:

Length: 0 ft
Width: 0 ft
Depth: 40 ft
Diameter: 4 ft

FACILITY: Reverse Well

ELEVATION: 697 ft

WATERTABLE: 236 ft

HRS Migration Score: 47.819

LOCATION: 200 East

COORDINATES: N45674/W52619 (Center of well)

SITE DESCRIPTION:

Reverse wells, which are 4 ft. diameter by 30 ft. long corrugated culvert buried vertically 10 ft. below the ground. The culverts are perforated with 1/2 in. holes, 6 in. (on center) horizontally and 12 in. (on center) vertically starting 6 in. from the bottom.

The culverts are in 8 ft. diameter excavations which are filled with 3 in. rock. The rock goes from 10-40 ft. deep (42 cu. yds.).

SERVICE DATES: 1951-1954

SERVICE HISTORY:

From 12/51 to 12/54 the site received process condensate from the 242-B Evaporator. The site was retired in 12/54. The waste is low salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-78-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-11A & B

CHEMICALS DISPOSED

SODIUM:	0 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	0 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	0 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 0 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00143	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	2.20000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.22800
ZR-95:	0.00000	PU-240:	0.06160
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00456
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	49.00000
CS-137:	23.80000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-12

ALIAS: 216-ER-1, 2, and 3 Cribs, 216-ER Crib

STATUS: Inactive

DIMENSIONS:

Length: 160 ft

Width: 50 ft

Depth: 26 ft

Diameter: 0 ft

FACILITY: Cribs(3)

ELEVATION: 695 ft

WATERTABLE: 295 ft

HRS Migration Score: 62.920

LOCATION: 200 East

COORDINATES: N42980/W55000, N43140/W55000 (Center line - width)

SITE DESCRIPTION:

Cribs, a series of 3 cascading 16 ft. x 16 ft. x 10 ft. high wooden boxes in a 50 ft. x 160 ft. x 26 ft. deep excavation. There is 1/2 in. rock backfill in the bottom 12 ft. of the excavation, and there is about 4 ft. of this rock beneath each box. The lumber used is primarily 6 in. x 8 in. Douglas Fir. There is 3,800 cu. yds. of 1/2 in. gravel. The sideslope is 1:1.

SERVICE DATES: 1952-1973

SERVICE HISTORY:

From 11/52 to 12/57 the site received the process condensate from the waste evaporators in 221-U and 224-U Buildings. From 12/57 to 5/67 the site was inactive. From 5/67 to 11/67 the site received construction waste from 221-B building. From 11/67 to 11/73 the site received process condensate from 221-B building. The site was retired in 11/73. The waste is low salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-65-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-12

CHEMICALS DISPOSED

SODIUM:	0 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	1800000 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	0 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	0 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 520000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.23200	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	87.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	21.40000
ZR-95:	0.00000	PU-240:	5.76000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00078	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	7.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1680.00000
CS-137:	780.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-13

ALIAS: 291-B Crib, 216-B-B Crib

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 18 ft

Diameter: 4 ft

FACILITY: French Drain

ELEVATION: 703 ft

WATERTABLE: 295 ft

HRS Migration Score: 0.708

LOCATION: 200 East

COORDINATES: N42336/W53547 (Center of french drain)

SITE DESCRIPTION:

Two 4 ft. diameter x 5 ft. tall V.C. tile pipes stacked vertically and filled with crushed limestone. The top is covered with a piece of plywood buried 8 ft. below grade. 2.5 tons of limestone were used to fill the culvert and as a base beneath the culverts.

SERVICE DATES: 1945-1976

SERVICE HISTORY:

From 8/47 to 6/76 the site received the 291-B-1 Stack drainage. In 6/76 the stack drainage was rerouted to a catch tank, jetted to the wind tunnel, drained to a sump and then pumped to a cell drainage sample tank. The waste is low salt and neutral/basic. The site contains less than Ci beta and less than 0.004 g/m potential Pu.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-74-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-13

CHEMICALS DISPOSED

SODIUM:	0 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	2000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	0 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 21000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-14

ALIAS: 216-BC-1

STATUS: Inactive

DIMENSIONS:

Length: 80 ft

Width: 80 ft

Depth: 12 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 740 ft

WATERTABLE: 338 ft

HRS Migration Score: 2.269

LOCATION: 200 East

COORDINATES: N35845/W53309 (Center of crib)

SITE DESCRIPTION:

A dispersion structure, 10 ft. x 10 ft. x 3 ft. high, made of wood, cinder block and steel, sits over a 5 ft. bed of 3 in. gravel, with a 14 in. inlet pipe placed 6 ft. below grade. Excavation has bottom dimensions of 40 ft. x 40 ft. and 2:1 sideslope. The surface measures 80 ft. x 80 ft. The excavation is 12 ft. deep.

SERVICE DATES: 1956-1956

SERVICE HISTORY:

From 1/56 to 2/56 the site received the scavenged TBP supernatant waste from 221-U Building during uranium recovery operations. The site was retired in 2/56. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-32-CN, 122440-33-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-14

CHEMICALS DISPOSED

SODIUM:	600000 kg	FERROCYANIDE:	5000 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1500000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	50000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	40000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 8710000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.10300	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	189.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	1.43000
ZR-95:	0.00000	PU-240:	0.38500
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00004	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.07300
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	621.00000
CS-137:	124.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-15

ALIAS: 216-BC-2 Crib
STATUS: Inactive
DIMENSIONS:
Length: 80 ft
Width: 80 ft
Depth: 15 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 742 ft
WATERTABLE: 338 ft
HRS Migration Score: 1.361

LOCATION: 200 East
COORDINATES: N35935/W53447 (Center of crib)

SITE DESCRIPTION:

A dispersion structure, 10 ft. x 10 ft. x 3 ft. high, made of wood, cinder block and steel, sitting over a 5 ft. bed or 3 in. gravel with a 14 in. inlet pipe placed 8 ft. below grade. The excavation has bottom dimensions of 40 ft. x 40 ft. and 1:2 sideslope. The surface measures 80 ft. x 80 ft. The excavation is 15 ft. deep.

SERVICE DATES: 1956-1957

SERVICE HISTORY:

From 4/56 to 12/57 the site received scavenged TBP supernatant waste from 221-U building. The site was retired in 12/57. The waste is high salt, and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-32-CN, 122440-33-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-15

CHEMICALS DISPOSED

SODIUM:	400000 kg	FERROCYANIDE:	3300 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	900000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	60000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	50000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 6320000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.10900	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	95.80000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.28500
ZR-95:	0.00000	PU-240:	0.07700
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00002	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.03480
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	391.00000
CS-137:	101.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-16

ALIAS: 216-BC-3 Crib

STATUS: Inactive

DIMENSIONS:

Length: 80 ft

Width: 80 ft

Depth: 12 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 739 ft

WATERTABLE: 338 ft

HRS Migration Score: 62.920

LOCATION: 200 East

COORDINATES: N35716/W53389 (Center of crib)

SITE DESCRIPTION:

A dispersion structure, 10 ft. x 10 ft. x 3 ft. high, made of wood, cinder block and steel, sitting over a 5 ft. bed of 3 in. gravel. The excavation has bottom dimensions of 40 ft. x 40 ft. and 1:2 sideslope. The surface measures 80 ft. x 80 ft. The excavation is 12 ft. deep. A 14 in. inlet pipe is placed 6 ft. below grade.

SERVICE DATES: 1956-1956

SERVICE HISTORY:

From 4/56 to 8/56 the site received the scavenged TBP supernatant waste from 221-U building. The site was retired in 8/56. The waste is high salt, and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-32-CN, 122440-33-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-16

CHEMICALS DISPOSED

SODIUM:	500000 kg	FERROCYANIDE:	3000 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1100000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	110000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	70000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 5600000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	450.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.10300	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	331.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.57100
ZR-95:	0.00000	PU-240:	0.15400
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00001	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.10800
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1290.00000
CS-137:	323.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-17

ALIAS: 216-BC-4 Crib

STATUS: Inactive

DIMENSIONS:

Length: 80 ft

Width: 80 ft

Depth: 14 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 740 ft

WATERTABLE: 338 ft

HRS Migration Score: 1.361

LOCATION: 200 East

COORDINATES: N35796/W53527 (Center of crib)

SITE DESCRIPTION:

A dispersion structure, 10 ft. x 10 ft. x 3 ft. high, made of wood, cinder block and steel, sitting over a 5 ft. bed of 3 in. gravel with a 14 in. inlet pipe placed 7 ft. below grade. The excavation has bottom dimensions of 40 ft. x 40 ft. and a 1:2 sideslope. The surface measures 80 ft. x 80 ft. The excavation is 14 ft. deep.

SERVICE DATES: 1956-1956

SERVICE HISTORY:

From 1/56 to 1/56 the site received the scavenged TBP supernatant waste from the 221-U building. The site was retired in 1/56. The waste is high salt, and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-32-CN, 122440-33-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-17

CHEMICALS DISPOSED

SODIUM:	500000 kg	FERROCYANIDE:	1800 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1100000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	90000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	60000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 3410000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.02040	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	75.70000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.57100
ZR-95:	0.00000	PU-240:	0.15400
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.11900
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	361.00000
CS-137:	109.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-18

ALIAS: 216-BC-5 Crib
STATUS: Inactive
DIMENSIONS:
Length: 80 ft
Width: 80 ft
Depth: 14 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 740 ft
WATERTABLE: 338 ft
HRS Migration Score: 1.361

LOCATION: 200 East
COORDINATES: N35577/W53469 (Center of crib)

SITE DESCRIPTION:

A disperison structure, 10 ft. x 10 ft. x 3 ft. high, made of wod, cinder block and steel sitting over a 5 ft. bed of 3 in. gravel with a 14 in. inlet pipe placed 9 ft. below grade. The excavation has bottom dimensions of 40 ft. x 40 ft. and is 16 ft. deep. The sideslope is 1:2. The surface measures 80 ft. x 80 ft.

SERVICE DATES: 1956-1956

SERVICE HISTORY:

From 3/56 to 4/56 the site received the scavenged TBP supernatant from 221-U building. The site was retired in 4/56. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-32-CN, 122440-33-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-18

CHEMICALS DISPOSED

SODIUM:	400000 kg	FERROCYANIDE:	5000 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1000000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	70000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	50000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 8520000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.10300	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	89.70000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.57100
ZR-95:	0.00000	PU-240:	0.15400
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00001	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.07910
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	420.00000
CS-137:	124.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-19

ALIAS: 216-BC-6 Crib

STATUS: Inactive

DIMENSIONS:

Length: 80 ft

Width: 80 ft

Depth: 14 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 740 ft

WATERTABLE: 338 ft

HRS Migration Score: 1.815

LOCATION: 200 East

COORDINATES: N35657/W53607 (Center of crib)

SITE DESCRIPTION:

A dispersion structure, 10 ft. x 10 ft. x 3 ft. high, made of wood, cinder block and steel sitting over a 5 ft. bed of 3 in. gravel with a 14 in. inlet pipe placed 9 ft. below grade. The excavation has bottom dimensions of 40 ft. x 40 ft. and is 16 ft. deep. The sideslope is 1:2. The surface measures 80 ft. x 80 ft.

SERVICE DATES: 1957-1957

SERVICE HISTORY:

From 2/57 to 10/57 the site received the scavenged TBP supernatant waste from the 221-U building. The site was retired in 10/57. The waste is high salt, and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-32-CN, 122440-33-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-19

CHEMICALS DISPOSED

SODIUM:	700000 kg	FERROCYANIDE:	3400 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1500000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	90000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	100000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 6400000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.11700	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	96.90000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.57100
ZR-95:	0.00000	PU-240:	0.15400
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00001	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.06060
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	456.00000
CS-137:	142.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-20

ALIAS: 216-BC-7 Trench, 216-B-20 Trench

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 740 ft

WATERTABLE: 330 ft

HRS Migration Score: 1.361

LOCATION: 200 East

COORDINATES: N36000/W55940, N35540/W54190 (Center line of trench)

SITE DESCRIPTION:

Trench, 500 ft. x 10 ft. wide bottom area. The trench was divided into 62.5 ft. sections by 2 ft. high earthen dams. The sideslope is 1:1.5. The depth was designed to be 10 ft. but is often documented as 6 ft. The trench has been backfilled.

SERVICE DATES: 1956-1956

SERVICE HISTORY:

From 9/56 to 10/56 the site received the scavenged TBP supernatant waste from 221-U building. The site was retired in 10/56. The waste is high salt, and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-34-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-20

CHEMICALS DISPOSED

SODIUM:	500000 kg	FERROCYANIDE:	2500 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1100000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	100000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	80000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 4680000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.08990	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	373.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.07420
ZR-95:	0.00000	PU-240:	0.02000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00001	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.11800
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	2180.00000
CS-137:	764.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-21

ALIAS: 216-BC-8, 216-BC-21

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 740 ft

WATERTABLE: 338 ft

HRS Migration Score: 1.307

LOCATION: 200 East

COORDINATES: N36000/W54055, N35540/W54305 (Center line of trench)

SITE DESCRIPTION:

Trench, 500 ft. x 10 ft. wide bottom area. The trench was divided into 62.5 ft. sections by 2 ft. high earthen dams. The sideslope is 1:1.5. The depth was designed to be 10 ft. but is often documented as 6 ft. The trench has been backfilled.

SERVICE DATES: 1956-1956

SERVICE HISTORY:

From 9/56 to 10/56 the site received the scavenged TBP supernatant waste from 221-U building. The site was retired in 10/56. The waste is high salt, and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-34-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-21

CHEMICALS DISPOSED

SODIUM:	310000 kg	FERROCYANIDE:	2500 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	700000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	60000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	40000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 4670000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.13300	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	349.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.58800
ZR-95:	0.00000	PU-240:	0.13600
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00001	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.22600
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1060.00000
CS-137:	185.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-22

ALIAS: 216-BC-9 Trench, 216-B-22 Trench

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 10 ft

Depth: 12 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 740 ft

WATERTABLE: 338 ft

HRS Migration Score: 1.361

LOCATION: 200 East

COORDINATES: N36000/W54171, N35540/W54420 (Center line of trench)

SITE DESCRIPTION:

Trench, 500 ft. x 10 ft. wide bototm area. It was divided into 62.5 ft. sections by 2 ft. earth dams. The sideslope is 1:1.5. The depth was designed to be 12 ft. but some documents report approximately 6 ft. The trench has been backfilled.

SERVICE DATES: 1956-1956

SERVICE HISTORY:

From 10/56 to 10/56 the site received the scavenged TBP supernatant waste from 221-U Building. The site was retired in 10/56. The waste is high salt, and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-34-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-22

CHEMICALS DISPOSED

SODIUM:	400000 kg	FERROCYANIDE:	2500 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	900000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	80000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	40000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 4740000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.27400	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	193.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.14800
ZR-95:	0.00000	PU-240:	0.03420
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00002	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.14000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	437.00000
CS-137:	22.30000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-23

ALIAS: 216-BC-10 Trench, 216-B-23 Trench

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 740 ft

WATERTABLE: 330 ft

HRS Migration Score: 1.361

LOCATION: 200 East

COORDINATES: N35300/W54244, N35300/W54744 (Center line of trench)

SITE DESCRIPTION:

A 500 ft. long trench divided into eight 62.5 sections by 4 ft. high earth dams. The trench has a 10 ft. bottom width, is approximately 8 ft. deep, and has 1:1.5 sideslopes. The trench has been backfilled.

SERVICE DATES: 1956-1956

SERVICE HISTORY:

From 10/56 to 10/56 the site received the scavenged TBP supernatant waste from 221-U Building. The site was retired in 10/56. The waste in high salt, and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-35-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-23

CHEMICALS DISPOSED

SODIUM:	400000 kg	FERROCYANIDE:	2400 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1000000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	60000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	60000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		
TOTAL VOLUME DISPOSED:		4520000 Liters	

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.13700	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	68.60000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.10200
ZR-95:	0.00000	PU-240:	0.02770
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00002	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.05230
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	247.00000
CS-137:	56.80000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-24

ALIAS: 216-BC-11 Trench, 216-B-24 Trench

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 740 ft

WATERTABLE: 336 ft

HRS Migration Score: 1.307

LOCATION: 200 East

COORDINATES: N35200/W54244, N35200/W54744 (Center line of trench)

SITE DESCRIPTION:

A 500 ft. long trench divided into eight 62.5 ft. sections by 4 ft. high earth dams. The trench has a 10 ft. bottom width, is about 8 ft. deep, and has 1.5:1 sideslopes. The trench has been backfilled.

SERVICE DATES: 1956-1956

SERVICE HISTORY:

From 10/56 to 11/56 the site received the scavenged TBP supernatant from 221-U building. The site was retired in 11/56. The waste is high salt, and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-35-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-8-24

CHEMICALS DISPOSED

SODIUM:	280000 kg	FERROCYANIDE:	2500 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	600000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	50000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	34000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 4700000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.21000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	85.60000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.44000
ZR-95:	0.00000	PU-240:	0.11900
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00002	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.08240
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	301.00000
CS-137:	63.90000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-25

ALIAS: 216-BC-12 Trench, 216-B-25 Trench

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 740 ft

WATERTABLE: 335 ft

HRS Migration Score: 1.307

LOCATION: 200 East

COORDINATES: N35100/W54244, N35100/W54744 (Center line of trench)

SITE DESCRIPTION:

A 500 ft. long trench divided into eight 62.5 ft. sections by 4 ft. high earth dams. The trench has a 10 ft. bottom width, is approximately 10 ft. deep and has a 1.5:1 sideslope. The trench has been backfilled.

SERVICE DATES: 1956-1956

SERVICE HISTORY:

From 11/56 to 12/56 the site received the scavenged TBP supernatant waste from 221-U building. The site was retired in 12/56. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-35-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-25

CHEMICALS DISPOSED

SODIUM:	220000 kg	FERROCYANIDE:	2000 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	500000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	40000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	27000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 3760000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.14100	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	96.90000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.11400
ZR-95:	0.00000	PU-240:	0.03080
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00002	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.05130
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	251.00000
CS-137:	27.80000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-26

ALIAS: 216-BC-13 Trench, 216-B-26 Trench

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 740 ft

WATERTABLE: 330 ft

HRS Migration Score: 1.361

LOCATION: 200 East

COORDINATES: N35000/W54244, N35000/W54744 (Center line of trench)

SITE DESCRIPTION:

A 500 ft. long trench divided into eight 62.5 ft. sections by 4 ft. high earthen dams. The trench has a 10 ft. wide bottom, is approximately 8 ft. and has 1.5:1 sideslopes. The trench has been backfilled.

SERVICE DATES: 1956-1957

SERVICE HISTORY:

From 12/56 to 2/57 the site received the scavenged TBP supernatant waste from 221-U building. The site was retired in 2/57. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO=CD-673, HW-55176

Photographs: 122440-35-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-26

CHEMICALS DISPOSED

SODIUM:	350000 kg	FERROCYANIDE:	3100 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	800000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	60000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	40000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 5880000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.23300	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	521.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.14300
ZR-95:	0.00000	PU-240:	0.03850
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00003	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.19700
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1960.00000
CS-137:	477.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-27

ALIAS: 216-BC-14 Trench, 216-B-27 Trench

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 740 ft

WATERTABLE: 330 ft

HRS Migration Score: 1.307

LOCATION: 200 East

COORDINATES: N34900/W54244, N34900/W54744 (Center line of trench)

SITE DESCRIPTION:

A 500 ft. long trench divided into eight 62.5 ft. long sections by 4 ft. high earth dams. The trench has a 10 ft. bottom width, is approximately 8 ft. deep, and has 1.5:1 sideslopes. The trench has been backfilled.

SERVICE DATES: 1957-1957

SERVICE HISTORY:

From 2/57 to 4/57 the site received the scavenged TBP supernatant waste from 221-U building. The site was retired in 4/57. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHQ-CD-673, HW-55176

Photographs: 122440-35-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-27

CHEMICALS DISPOSED

SODIUM:	260000 kg	FERROCYANIDE:	2300 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	600000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	50000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	32000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 4420000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.17700	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	288.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.04000
ZR-95:	0.00000	PU-240:	0.01080
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00003	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.11500
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	615.00000
CS-137:	17.20000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-28

ALIAS: 216-BC-14 Trench, 21-B-28 Trench

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 740 ft

WATERTABLE: 330 ft

HRS Migration Score: 1.361

LOCATION: 200 East

COORDINATES: N34800/W54244, N34800/54744 (Center line of trench)

SITE DESCRIPTION:

A 500 ft. long trench divided into eight 62.5 ft. sections by 4 ft. high earthen dams. The trench has a 10 ft. bottom width and is about 13 ft. deep with 1.5:1 side slopes. The trench has been backfilled.

SERVICE DATES: 1957-1957

SERVICE HISTORY:

From 4/57 to 6/57 the site received the scavenged TBP supernatant waste from 221-U building. The site was retired in 6/57. The waste is high salt, and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-35-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-28

CHEMICALS DISPOSED

SODIUM:	400000 kg	FERROCYANIDE:	2700 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1000000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	80000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	50000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 5050000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.05370	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	54.20000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.32000
ZR-95:	0.00000	PU-240:	0.08620
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00001	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.10100
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	133.00000
CS-137:	11.70000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-8-29

ALIAS: 216-BC-16 Trench

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 737 ft

WATERTABLE: 339 ft

HRS Migration Score: 1.307

LOCATION: 200 East

COORDINATES: N35972/W54900, N35972/W55400 (Center line of trench)

SITE DESCRIPTION:

A 500 ft. long trench with a 10 ft. bottom width, divided in two by an earth dam at trench center, 5 ft. high and 5 ft. wide at the top. The side slope is 1.75:1. The depth is about 11 ft. The trench has been backfilled.

SERVICE DATES: 1957-1957

SERVICE HISTORY:

From 6/57 to 7/57 the site received the scavenged TBP supernatant waste from the 221-U building. The site was retired in 7/57. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-36-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-29

CHEMICALS DISPOSED

SODIUM:	280000 kg	FERROCYANIDE:	2600 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	700000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	50000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	35000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 4840000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.16500	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	92.90000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.06280
ZR-95:	0.00000	PU-240:	0.01690
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00003	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.11500
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	248.00000
CS-137:	29.90000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-30

ALIAS: 216-BC-17 Trench, 216-B-30 Trench

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 736 ft

WATERTABLE: 339 ft

HRS Migration Score: 1.361

LOCATION: 200 East

COORDINATES: N35847/W54900, N35847/W55400 (Center line of trench)

SITE DESCRIPTION:

A 500 ft. long trench with a 10 ft. bottom width, divided in two by an earth dam at the trench center, 5 ft. high and 5 ft. wide at the top. The side slope is 1.75:1. The depth is about 11 ft. The trench has been backfilled.

SERVICE DATES: 1957-1957

SERVICE HISTORY:

From 7/57 to 7/57 the site received the scavenged TBP supernatant waste from the 221-U Building. The site was retired in 7/57. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-36-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-30

CHEMICALS DISPOSED

SODIUM:	500000 kg	FERROCYANIDE:	2500 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1100000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	110000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	70000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 4780000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.03970	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	291.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.12000
ZR-95:	0.00000	PU-240:	0.03230
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.02950
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	3860.00000
CS-137:	1710.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-31

ALIAS: 216-BC-18, 216-B-31 Trench

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 734 ft

WATERTABLE: 339 ft

HRS Migration Score: 1.361

LOCATION: 200 East

COORDINATES: N35722/W54900, N35722/W55400 (Center line of trench)

SITE DESCRIPTION:

A 500 ft. long trench with a 10 ft. bottom width, divided in two by an earth dam at the trench center. The dam is 5 ft. high and 5 ft. wide at the top. The side slope is 1.75:1. The depth is about 10 ft. The trench has been backfilled.

SERVICE DATES: 1957-1957

SERVICE HISTORY:

From 7/57 to 8/57 the site received the scavenged TBP supernatant waste from the 221-U Building. The site was retired in 8/57. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-36-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-31

CHEMICALS DISPOSED

SODIUM:	500000 kg	FERROCYANIDE:	2500 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1100000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	90000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	60000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 4740000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.06300	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	101.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.29700
ZR-95:	0.00000	PU-240:	0.08010
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00002	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.04090
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	232.00000
CS-137:	14.20000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-32

ALIAS: 216-BC-19 Trench, 216-B-32 Trench

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 731 ft

WATERTABLE: 339 ft

HRS Migration Score: 1.361

LOCATION: 200 East

COORDINATES: N35597/W54900, N35597/W55400 (Center line of trench)

SITE DESCRIPTION:

A 500 ft. long trench with a 10 ft. bottom width, divided in two by an earth dam at the trench center. The dam is 5 ft. high and 5 ft. wide at the top. The side slope is 1.75:1. The depth is about 10 ft. The trench has been backfilled.

SERVICE DATES: 1957-1957

SERVICE HISTORY:

From 8/57 to 9/57 the site received the scavenged TBP supernatant waste from the 221-U building. The site was retired in 9/57. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-36-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-32

CHEMICALS DISPOSED

SODIUM:	500000 kg	FERROCYANIDE:	2500 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1000000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	90000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	60000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 4770000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.03970	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	123.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.14800
ZR-95:	0.00000	PU-240:	0.04000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00368
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	371.00000
CS-137:	63.90000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-33

ALIAS: 216-BC-20 Trench, 216-B-33 Trench

STATUS: Inactive

DIMENSIONS:

Length: 500 ft
Width: 10 ft
Depth: 10 ft
Diameter: 0 ft

FACILITY: Trench

ELEVATION: 730 ft

WATERTABLE: 339 ft

HRS Migration Score: 1.416

LOCATION: 200 East

COORDINATES: N35472/W54900, N35472/W55400 (Center line of trench)

SITE DESCRIPTION:

A 500 ft. long trench with a 10 ft. bottom width, divided in two by an earth dam, at trench center, 5 ft. high and 5 ft. wide at top. Side slope is 1.75:1. Depth is about 10 ft. Trench has been backfilled.

SERVICE DATES: 1957-1957

SERVICE HISTORY:

From 9/57 to 10/57 the site received the scavenged TBP supernatant waste from 221-U building. The site was retired in 10/57. The waste is high salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-36-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-33

CHEMICALS DISPOSED

SODIUM:	700000 kg	FERROCYANIDE:	2500 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1700000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	110000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	100000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 4740000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.03270	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	19.90000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.67400
ZR-95:	0.00000	PU-240:	0.18200
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00670
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	306.00000
CS-137:	138.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-34

ALIAS: 216-BC-21 Trench

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 728 ft

WATERTABLE: 339 ft

HRS Migration Score: 1.416

LOCATION: 200 East

COORDINATES: N35347/W54900, N35347/W55400 (Center line of trench)

SITE DESCRIPTION:

A 500 ft. long trench with a 10 ft. bottom width, divided in two by an earth dam, at trench center, 5 ft. high and 5 ft. wide at top. Side slope is 1.75:1. Depth is about 10 ft. Trench has been backfilled.

SERVICE DATES: 1957-1957

SERVICE HISTORY:

From 10/57 to 10/57 the site received the scavenged TBP supernatant waste from 221-U building. The site was retired in 10/57. The waste is high salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-36-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-34

CHEMICALS DISPOSED

SODIUM:	800000 kg	FERROCYANIDE:	2600 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1900000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	90000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	80000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 4870000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01400	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	19.90000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.32500
ZR-95:	0.00000	PU-240:	0.08780
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.02850
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	56.70000
CS-137:	8.55000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-35

ALIAS: 241-BX-1 Grave, 216-BX-1 Trench

STATUS: Inactive

DIMENSIONS:

Length: 252 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 664 ft

WATERTABLE: 263 ft

HRS Migration Score: 1.307

LOCATION: 200 East

COORDINATES: N45273/W53850, N45273/W54102 (Center line of trench)

SITE DESCRIPTION:

A 252 ft. long trench with a 10 ft. bottom width and about 10 ft. deep. Trench has been backfilled. Side slopes are 1.5:1.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

From 2/54 to 3/54 the site received first cycle supernatant waste from 221-U building. The site was retired in 3/54. The waste is high salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-58-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-35

CHEMICALS DISPOSED

SODIUM:	60000 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	2600 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	5500 kg
NITRITE:	10000 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	20000 kg
NITRATE:	90000 kg	SODIUM ALUMINATE:	10000 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	4000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	20000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 1060000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00047	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	106.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.06850
ZR-95:	0.00000	PU-240:	0.01850
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00559
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	599.00000
CS-137:	202.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-36

ALIAS: 241-BX-2 Grave, 216-BX-2 Trench

STATUS: Inactive

DIMENSIONS:

Length: 252 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 664 ft

WATERTABLE: 261 ft

HRS Migration Score: 1.252

LOCATION: 200 East

COORDINATES: N45323/W53850, N45323/W54102 (Center line of trench)

SITE DESCRIPTION:

A 252 ft. long trench, 10 ft. deep with a 10 ft. bottom width.
Trench has been backfilled. Side slopes are 1.5:1.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

From 3/54 to 4/54 the site received first cycle supernatant waste from 221-B building. The site was retired in 4/54. The waste is high salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-58-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-36

CHEMICALS DISPOSED

SODIUM:	120000 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	5000 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	10000 kg
NITRITE:	18000 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	3800 kg
NITRATE:	160000 kg	SODIUM ALUMINATE:	24000 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	8000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	40000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 1940000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00110	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	218.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.04570
ZR-95:	0.00000	PU-240:	0.01230
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00532
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1130.00000
CS-137:	366.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-37

ALIAS: 241-BX-3 Grave, 216-BX-3 Trench

STATUS: Inactive

DIMENSIONS:

Length: 252 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 663 ft

WATERTABLE: 259 ft

HRS Migration Score: 1.416

LOCATION: 200 East

COORDINATES: N45413/W53850, N45413/W54102 (Center line of trench)

SITE DESCRIPTION:

A 252 ft. long trench, 10 ft. deep with a 10 ft. bottom width.
Trench has been backfilled.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

From 8/54 to 8/54 the site received first cycle bottom supernatant waste from the waste evaporator and 242-B. The site was retired in 8/54. The waste is high salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-58-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-37

CHEMICALS DISPOSED

SODIUM:	1300000 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	50000 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	100000 kg
NITRITE:	200000 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	38000 kg
NITRATE:	1700000 kg	SODIUM ALUMINATE:	250000 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	90000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	400000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 4310000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01570	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	7.20000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.11400
ZR-95:	0.00000	PU-240:	0.03080
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00121
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	2820.00000
CS-137:	1470.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-38

ALIAS: 241-BX-4 Grave, 216-BX-4 Trench

STATUS: Inactive

DIMENSIONS:

Length: 252 ft
Width: 10 ft
Depth: 10 ft
Diameter: 0 ft

FACILITY: Trench

ELEVATION: 660 ft

WATERTABLE: 257 ft

HRS Migration Score: 1.252

LOCATION: 200 East

COORDINATES: N45503/W53850, N45503/W54102 (Center line of trench)

SITE DESCRIPTION:

A 252 ft. long trench, 10 ft. deep with a 10 ft. bottom width.
Trench has been backfilled.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

From 7/54 to 7/54 the site received first cycle supernatant waste
from 221-B building. The site was retired in 8/54.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-58-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-38

CHEMICALS DISPOSED

SODIUM:	90000 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	4000 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	8000 kg
NITRITE:	13000 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	2800 kg
NITRATE:	120000 kg	SODIUM ALUMINATE:	18000 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	6000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	27000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 1430000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00094	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	833.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.06850
ZR-95:	0.00000	PU-240:	0.01850
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.01420
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	2120.00000
CS-137:	240.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-39

ALIAS: 241-BX-5 Grave, 216-BX-5 Trench

STATUS: Inactive

DIMENSIONS:

Length: 252 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 659 ft

WATERTABLE: 255 ft

HRS Migration Score: 1.252

LOCATION: 200 East

COORDINATES: N45593/W53840, N45595/W54102 (Center line of trench)

SITE DESCRIPTION:

A 252 ft. long trench, 10 ft. deep with a 10 ft. bottom width.
Trench has been backfilled.

SERVICE DATES: 1953-1954

SERVICE HISTORY:

From 12-53 to 11/54 the site received first cycle supernatant waste from the 221-B building. The site was retired in 11/54. The waste is high salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-58-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-39

CHEMICALS DISPOSED

SODIUM:	90000 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	4000 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	8000 kg
NITRITE:	14000 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	2800 kg
NITRATE:	120000 kg	SODIUM ALUMINATE:	18000 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	6000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	29000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 1540000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01480	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	10.20000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.08620
ZR-95:	0.00000	PU-240:	0.02320
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00194
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	422.00000
CS-137:	210.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-40

ALIAS: 241-BX-6 Grave, 241-BX-6 Trench

STATUS: Inactive

DIMENSIONS:

Length: 252 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 658 ft

WATERTABLE: 250 ft

HRS Migration Score: 1.252

LOCATION: 200 East

COORDINATES: N45683/W53850, N45683/W54102 (Center line of trench)

SITE DESCRIPTION:

A 252 ft. long trench, 10 ft. deep with a 10 ft. bottom width.
Trench has been backfilled.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

From 4/54 to 7/54 the site received first cycle supernatant waste
from the 221-B building. The site was retired in 7/54.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-58-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-40

CHEMICALS DISPOSED

SODIUM:	100000 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	4000 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	8000 kg
NITRITE:	15000 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	3300 kg
NITRATE:	130000 kg	SODIUM ALUMINATE:	20000 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	7000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	31000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 1640000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00031	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	126.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.05710
ZR-95:	0.00000	PU-240:	0.01540
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00117
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	571.00000
CS-137:	166.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-41

ALIAS: 241-BX-7, 216-BX-7 Trench

STATUS: Inactive

DIMENSIONS:

Length: 252 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 658 ft

WATERTABLE: 249 ft

HRS Migration Score: 1.252

LOCATION: 200 East

COORDINATES: N45573/W53850, N45773/W54102 (Center line of trench)

SITE DESCRIPTION:

A 252 ft. long trench, 10 ft. deep with a 10 ft. bottom width.
Trench has been backfilled.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

From 11/54 to 11/54 the site received the first cycle supernatant
waste from the 221-B building. The site was retired in 11/54.
The waste is high salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-58-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-41

CHEMICALS DISPOSED

SODIUM:	90000 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	4000 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	8000 kg
NITRITE:	13000 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	2800 kg
NITRATE:	120000 kg	SODIUM ALUMINATE:	18000 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	6000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	27000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 1440000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00016	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	21.10000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.01710
ZR-95:	0.00000	PU-240:	0.00462
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00251
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	850.00000
CS-137:	422.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-42

ALIAS: 241-BX-8 Grave, 216-BX-8 Trench

STATUS: Inactive

DIMENSIONS:

Length: 252 ft
Width: 10 ft
Depth: 10 ft
Diameter: 0 ft

FACILITY: Trench

ELEVATION: 668 ft

WATERTABLE: 265 ft

HRS Migration Score: 1.252

LOCATION: 200 East

COORDINATES: N45273/W54152, N45273/W54404 (Center line of trench)

SITE DESCRIPTION:

A 252 ft. long trench, 10 ft. deep, with a 10 ft. bottom width.
Trench has been backfilled.

SERVICE DATES: 1955-1955

SERVICE HISTORY:

From 1/55 to 2/55 the site received the scavenged TBP supernatant waste from the 221-U building. The site was retired in 2/55. The waste is high salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-58-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-42

CHEMICALS DISPOSED

SODIUM:	90000 kg	FERROCYANIDE:	800 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	210000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	15000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	11000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 1500000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.17900	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	507.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.57100
ZR-95:	0.00000	PU-240:	0.15400
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.22800
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1110.00000
CS-137:	46.50000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-43

ALIAS: 216-BY-1 Cavern, 216-BY-1 Crib

STATUS: Inactive

DIMENSIONS:

Length: 75 ft

Width: 75 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 623 ft

WATERTABLE: 228 ft

HRS Migration Score: 57.887

LOCATION: 200 East

COORDINATES: N46332/W53355 (Center of Crib)

SITE DESCRIPTION:

Four 4 ft. diameter x 4 ft. long concrete pipes placed vertically 7 ft. below grade, on a 5 ft. bed of 3 in. gravel (380 cu. yds.). Pipes are arranged in a square with the centers spaced 15 ft. apart in a 30 ft. x 30 ft. x 15 ft. deep excavation. Surface dimensions are 75 ft. x 75 ft. Each culvert is fed by an 8 in. steel pipe coming from main, forming a chevron pattern. Each culvert has a concrete cover.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

From 11/54 to 11/54 the site received the scavenged TBP supernatant waste from the 221-U building. The site was retired in 11/54. The waste is high salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-56-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-43

CHEMICALS DISPOSED

SODIUM:	170000 kg	FERROCYANIDE:	1100 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	400000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	29000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	21000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 2120000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	170.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01570	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	630.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.02850
ZR-95:	0.00000	PU-240:	0.00770
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00456
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1530.00000
CS-137:	142.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-44

ALIAS: 216-BY-2 Cavern, 216-BY-2 Crib

STATUS: Inactive

DIMENSIONS:

Length: 75 ft

Width: 75 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 623 ft

WATERTABLE: 222 ft

HRS Migration Score: 60.403

LOCATION: 200 East

COORDINATES: N46417/W53355 (Center of crib)

SITE DESCRIPTION:

Four 4 ft. diameter x 4 ft. long concrete pipes placed vertically 7 ft. below grade, on a 5 ft. bed of 3 in. gravel (380 cu. yd.). Pipes are arranged in a square with the centers spaced 15 ft. apart in a 30 ft. x 30 ft. x 15 ft. deep excavation. Surface dimensions are 75 ft. x 75 ft. Each culvert is fed by an 8 in. steel pipe coming from main, forming a chevron pattern. Each culvert has a concrete cover.

SERVICE DATES: 1954-1955

SERVICE HISTORY:

From 11/54 to 3/55 the site received scavenged TBP supernatant waste from the 221-U building. The site was retired in 3/55. The waste is high salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-56-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-44

CHEMICALS DISPOSED

SODIUM:	330000 kg	FERROCYANIDE:	3000 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	800000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	60000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	40000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 5600000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	450.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.08480	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1310.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.85600
ZR-95:	0.00000	PU-240:	0.23100
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00076
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	3270.00000
CS-137:	336.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-45

ALIAS: 216-BY-3 Cavern, 216-BY-3 Crib

STATUS: Inactive

DIMENSIONS:

Length: 75 ft

Width: 75 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 623 ft

WATERTABLE: 220 ft

HRS Migration Score: 62.920

LOCATION: 200 East

COORDINATES: N46502/W53355 (Center of crib)

SITE DESCRIPTION:

Four 4 ft. diameter x 4 ft. long concrete pipes placed vertically 8 ft. below grade, on a 5 ft. bed of 3 in. gravel (380 cu. yd.). Pipes are arranged in a square with the centers spaced 15 ft. apart in a 30 ft. x 30 ft. x 15 ft. deep excavation. Surface dimensions are 75 ft. x 75 ft. Each culvert is fed by an 8 in. steel pipe coming from main, forming a chevron pattern. Each culvert has a concrete cover.

SERVICE DATES: 1955-1955

SERVICE HISTORY:

From 4/55 to 6/55 the site received the scavenged TBP supernatant waste from 221-U building. The site was retired in 6/55. The waste is high salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-56-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-45

CHEMICALS DISPOSED

SODIUM:	340000 kg	FERROCYANIDE:	2600 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	900000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	60000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	41000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 4920000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	390.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.08990	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1290.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.57100
ZR-95:	0.00000	PU-240:	0.15400
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00228
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	3980.00000
CS-137:	727.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-46

ALIAS: 216-BY-4 Cavern, 216-BY-4 Crib

STATUS: Inactive

DIMENSIONS:

Length: 75 ft

Width: 75 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 623 ft

WATERTABLE: 219 ft

HRS Migration Score: 62.920

LOCATION: 200 East

COORDINATES: N46587/W53355 (Center of crib)

SITE DESCRIPTION:

Four 4 ft. diameter x 4 ft. long concrete pipes placed vertically 7 ft. below grade, on a 5 ft. bed of 3 in. gravel (380 cu. yd.). Pipes are arranged in a square with the centers spaced 15 ft. apart in a 30 ft. x 30 ft. x 15 ft. deep excavation. Surface dimensions are 75 ft. x 75 ft. Each culvert is fed by an 8 in. steel pipe coming from main, forming a chevron pattern. Each culvert has a concrete cover.

SERVICE DATES: 1955-1955

SERVICE HISTORY:

From 9/55 to 12/55 the site received scavenged TBP supernatant waste from 221-U building. The site was retired in 12/55. The waste is high salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-56-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-46

CHEMICALS DISPOSED

SODIUM:	500000 kg	FERROCYANIDE:	4000 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1200000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	100000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	70000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 6700000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	536.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.08990	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	692.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	1.14000
ZR-95:	0.00000	PU-240:	0.30800
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00001	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.06360
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1580.00000
CS-137:	96.90000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-47

ALIAS: 216-BY-5 Cavern, 216-BY-5 Crib

STATUS: Inactive

DIMENSIONS:

Length: 75 ft

Width: 75 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 623 ft

WATERTABLE: 230 ft

HRS Migration Score: 1.307

LOCATION: 200 East

COORDINATES: N46332/W53499 (Center of crib)

SITE DESCRIPTION:

Four 4 ft. diameter x 4 ft. long concrete pipes placed vertically 7 ft. below grade, on a 5 ft. bed of 3 in. gravel (380 cu. yd.). Pipes are arranged in a square with the centers spaced 15 ft. apart in a 30 ft. x 30 ft. x 15 ft. deep excavation. Surface dimensions are 75 ft. x 75 ft. Each culvert is fed by an 8 in. steel pipe coming from main, forming a chevron pattern. Each culvert has a concrete cover.

SERVICE DATES: 1955-1955

SERVICE HISTORY:

From 9/55 to 9/55 the site received scavenged TBP supernatant waste from the 221-U Bldg. The site was retired in 9/55. The waste is high salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-56-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-47

CHEMICALS DISPOSED

SODIUM:	310000 kg	FERROCYANIDE:	2000 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	700000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	60000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	40000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 3710000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01789	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	286.03017	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.28500
ZR-95:	0.00000	PU-240:	0.07660
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00228
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	720.20859
CS-137:	72.66759	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-48

ALIAS: 216-BY-6 Cavern, 216-BY-6 Crib
STATUS: Inactive
DIMENSIONS:
Length: 75 ft
Width: 75 ft
Depth: 15 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 623 ft
WATERTABLE: 225 ft
HRS Migration Score: 62.920

LOCATION: 200 East
COORDINATES: N46417/W53499 (Center of crib)

SITE DESCRIPTION:

Four 4 ft.diameter x 4 ft. long concrete pipes placed vertically 7 ft. below grade, on a 5 ft. bed of 3 in. gravel (380 cu. yd.). Pipes are arranged in a square with the centers spaced 15 ft. apart in a 30 ft. x 30 ft. x 15 ft. deep excavation. Surface dimensions are 75 ft. x 75 ft. Each culvert is fed by an 8 in. steel pipe coming from main, forming a chevron pattern. Each culvert has a concrete cover.

SERVICE DATES: 1955-1957

SERVICE HISTORY:

From 11/55 to 7/57 the site received scavenged TBP supernatant waste from the 221-U building. The site was retired in 7/57. The waste is high salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-56-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-48

CHEMICALS DISPOSED

SODIUM:	400000 kg	FERROCYANIDE:	2200 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1000000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	80000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	60000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 4090000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	327.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01790	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	600.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.28500
ZR-95:	0.00000	PU-240:	0.07700
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00076
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1630.00000
CS-137:	218.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-49

ALIAS: 216-BY-7 Cavern, 216-BY-7 Crib

STATUS: Inactive

DIMENSIONS:

Length: 75 ft

Width: 75 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 623 ft

WATERTABLE: 223 ft

HRS Migration Score: 62.920

LOCATION: 200 East

COORDINATES: N46502/W53499 (Center of crib)

SITE DESCRIPTION:

Four 4 ft. diameter x 4 ft. long concrete pipes palced vertically 7 ft. below grade, on a 5 ft. bed of 3 in. gravel (380 cu. yd.). Pipes are arranged in a square with the centers spaced 15 ft. apart in a 30 ft. x 30 ft. x 15 ft. deep excavation. Surface dimensions are 75 ft. x 75 ft. Each culvert is fed by an 8 in. steel pipe coming from main, forming a chevron pattern. Each culvert has a concrete cover.

SERVICE DATES: 1955-1955

SERVICE HISTORY:

From 11/55 to 12/55 the site received scavenged TBP supernatant waste from 221-U building. The site was retired in 12/55. The waste is high salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-56-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-49

CHEMICALS DISPOSED

SODIUM:	600000 kg	FERROCYANIDE:	4000 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1500000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	80000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	60000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 6700000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	536.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.08990	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1240.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.85600
ZR-95:	0.00000	PU-240:	0.23100
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00001	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.10600
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	2880.00000
CS-137:	198.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-50

ALIAS: 216-BY-8 Cavern, 216-BY-8 Crib

STATUS: Inactive

DIMENSIONS:

Length: 75 ft

Width: 75 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 621 ft

WATERTABLE: 223 ft

HRS Migration Score: 50.336

LOCATION: 200 East

COORDINATES: N46587/W53499 (Center of crib)

SITE DESCRIPTION:

Four 4 ft. diameter x 4 ft. long concrete pipes palced vertically 7 ft. below grade, on a 5 ft. bed of 3 in. gravel (380 cu. yd.). Pipes are arranged in a square with the centers spaced 15 ft. apart in a 30 ft. x 15 ft. deep excavation. Surface dimensions are 75 ft. x 75 ft. Each culvert is fed by an 8 in. steel pipe coming from main, forming a chevron pattern. Each culvert has a concrete cover.

SERVICE DATES: 1965-1974

SERVICE HISTORY:

From 1/65 to 1/74 the site received the waste storage tank condensate from the ITS #1 Unit in the 241-BY Tank Farm. The site was retired in 1/74.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-56-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-50

CHEMICALS DISPOSED

SODIUM:	500 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	10000 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1500 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	0 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	9100 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 54800000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	90.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.02830	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	3.72000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.01360
ZR-95:	0.00000	PU-240:	0.00368
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00001	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00010
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	114.00000
CS-137:	55.80000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-51

ALIAS: 216-BY-9 Crib
STATUS: Inactive
DIMENSIONS:
Length: 0 ft
Width: 0 ft
Depth: 13 ft
Diameter: 5 ft

FACILITY: French Drain
ELEVATION: 620 ft
WATERTABLE: 220 ft
HRS Migration Score: 0.708

LOCATION: 200 East
COORDINATES: N46366/W52567 (Center of crib)

SITE DESCRIPTION:

Sections of 5 ft. diameter concrete pipe stacked vertically from 1 ft. above to 14 ft. below grade. The pipe is filled to 13 ft. with 3-6 in. gravel (9.5 cu. yds.). The drain is covered with 3 in. T&G treated wood cover with vent holes.

SERVICE DATES: 1956-1958

SERVICE HISTORY:

From 1/56 to 1/58 the site received flush drainage from BC Crib pipeline. The site was retired in 1/58.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-76-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-51

CHEMICALS DISPOSED

SODIUM:	80 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	190 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	11 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	8 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 1000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-52

ALIAS: 216-B-52 Trench

STATUS: Inactive

DIMENSIONS:

Length: 580 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 742 ft

WATERTABLE: 339 ft

HRS Migration Score: 1.416

LOCATION: 200 East

COORDINATES: N35415/W54170, N35415/W54750 (Center line of trench)

SITE DESCRIPTION:

A 580 ft. long trench, 10 ft. deep, with a 10 ft. bottom width.
Trench has been backfilled.

SERVICE DATES: 1957-1958

SERVICE HISTORY:

From 12/57 to 1/58 the site received scavenged waste from uranium recovery process in 221-U (TBP solvent extraction). The site was retired in 1/58. The waste is high salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHQ-CD-673, HW-55176

Photographs: 122440-35-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-52

CHEMICALS DISPOSED

SODIUM:	860000 kg	FERROCYANIDE:	5000 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	1000 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	2100000 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	80000 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	80000 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 8530000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.11300	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	5.39000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	1.08000
ZR-95:	0.00000	PU-240:	0.29300
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00002	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.01000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	345.08000
CS-137:	175.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-53A

ALIAS: 216-B-53A Trench

STATUS: Inactive

DIMENSIONS:

Length: 60 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 743 ft

WATERTABLE: 338 ft

HRS Migration Score: 0.980

LOCATION: 200 East

COORDINATES: N35973/W54583, N35973/W54750 (Center line of trench)

SITE DESCRIPTION:

A 60 ft. long trench with a 10 ft. bottom width, divided in two by an earth dam at trench center, 5 ft. high and 5 in. wide at top. Side slope is 1.75:1. The trench depth is about 9 ft. The trench has been backfilled.

SERVICE DATES: 1965-1965

SERVICE HISTORY:

From 10/65 to 11/65 the site received waste from the 300 Area Operations of the Hanford Laboratories. The site was retired in 11/65. The waste is neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-37-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-53A

CHEMICALS DISPOSED

SODIUM:	0 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	0 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	0 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 549000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.03350	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.05900	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	5.71000
ZR-95:	0.00000	PU-240:	1.54000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00760
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.29300
CS-137:	0.06090	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-53B

ALIAS: 216-B-53 Trench
STATUS: Inactive
DIMENSIONS:
Length: 150 ft
Width: 10 ft
Depth: 8 ft
Diameter: 0 ft

FACILITY: Trench
ELEVATION: 743 ft
WATERTABLE: 338 ft
HRS Migration Score: 1.035

LOCATION: 200 East
COORDINATES: N35937/W54583, N35916/W54723 (Center line of trench)

SITE DESCRIPTION:

A 150 ft. long trench with a 10 ft. bottom width, divided in two by an earth dam at trench center, 5 ft. high and 5 in. wide at top. Side slope is 1.75:1. The trench depth is about 8 ft. The trench has been backfilled.

SERVICE DATES: 1962-1963

SERVICE HISTORY:

From 11/62 to 3/63 the site received waste from the Hanford Laboratories Operations (321 Building) in the 300 Area. The site was retired in 3/63. The waste is low salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-37-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-53B

CHEMICALS DISPOSED

SODIUM:	0 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	1 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	0 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 15100 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.04830	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	5.68000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.28500
ZR-95:	0.00000	PU-240:	0.07700
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00303
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	19.30000
CS-137:	4.13000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-54

ALIAS: 216-B-54 Trench
STATUS: Inactive
DIMENSIONS:
Length: 200 ft
Width: 10 ft
Depth: 8 ft
Diameter: 0 ft

FACILITY: Trench
ELEVATION: 745 ft
WATERTABLE: 338 ft
HRS Migration Score: 1.035

LOCATION: 200 East
COORDINATES: N35772/W54550, N35772/W54750 (Center line of trench)

SITE DESCRIPTION:

A 200 ft. long trench with a 10 ft. bottom width, divided in two by an earth dam at trench center, 5 in. high and 5 in. wide at top. Side slope is 1.75:1. Depth is about 8 ft. Trench has been backfilled.

SERVICE DATES: 1963-1965

SERVICE HISTORY:

From 3/63 to 10/65 the site received waste from Hanford Laboratories Operations in the 300 Area. The site was retired in 10/65. The waste is low salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-37-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-54

CHEMICALS DISPOSED

SODIUM:	0 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	100 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	0 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 999000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00590	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.05750	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.28500
ZR-95:	0.00000	PU-240:	0.07700
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00303
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1.53000
CS-137:	0.05960	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-57

ALIAS: 216-B-57

STATUS: Inactive

DIMENSIONS:

Length: 200 ft

Width: 15 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 634 ft

WATERTABLE: 235 ft

HRS Migration Score: 50.336

LOCATION: 200 East

COORDINATES: N46160/W53775, N46360/W53775 (Center line of crib)

SITE DESCRIPTION:

Crib, 200 ft. x 15 ft. x 10 ft. deep, filled to 4 ft. above crib bottom with gravel (approximately 620 cu. yd.). A 12 in. corrugated perforated pipe runs the length of the crib 3 ft. above the bottom. Side slopes are 1.5:1.

SERVICE DATES: 1968-1973

SERVICE HISTORY:

From 2/68 to 6/73 the site received the waste storage tank condensate from the ITS #2 Unit in 241-BY Tank Farm. The site was retired in 6/73.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-57-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-57

CHEMICALS DISPOSED

SODIUM:	0 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	0 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	0 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	12000 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 84400000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01470	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	2.01000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.01061
ZR-95:	0.00000	PU-240:	0.00287
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00006	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00029
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	475.00000
CS-137:	246.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-58

ALIAS: 216-B-59 Crib, 216-B-58 Trench

STATUS: Inactive

DIMENSIONS:

Length: 200 ft

Width: 10 ft

Depth: 8 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 748 ft

WATERTABLE: 338 ft

HRS Migration Score: 1.035

LOCATION: 200 East

COORDINATES: N35672/W54550, N35672/W54750 (Center line of trench)

SITE DESCRIPTION:

Crib, 200 ft. x 10 ft. x 8 ft. deep, divided into 25 ft. sections by 4 ft. high earth dams with wooden covers for each section running the length of crib. 48 in. diameter STL Pipe, placed along bottom of crib, corrugated with five 4 in. diameter holes around bottom half.

SERVICE DATES: 1965-1967

SERVICE HISTORY:

From 11/65 to 6/67 the site received Battelle NW Laboratory waste from the 300 Area. The site was retired in 6/67. The waste is low salt, neutra/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-37-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-58

CHEMICALS DISPOSED

SODIUM:	0 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	10 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	0 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 413000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.19800	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	6.08000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.38300
ZR-95:	0.00000	PU-240:	0.10300
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00305
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	21.50000
CS-137:	4.80000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-B-60

ALIAS: 216-B-60
STATUS: Inactive
DIMENSIONS:

Length: 0 ft
Width: 0 ft
Depth: 40 ft
Diameter: 8 ft

FACILITY: Crib
ELEVATION: 690 ft
WATERTABLE: 297 ft
HRS Migration Score: 0.980

LOCATION: 200 East
COORDINATES: N42573/W54178, N42583/W54178 (Center line of crib)

SITE DESCRIPTION:

Two steel caissons positioned side by side (standing on end) each 8 ft diameter x 40 ft. long. The south caisson overflows to the north.

SERVICE DATES: 1967-1967

SERVICE HISTORY:

From 11/67 to 11/67 the site received the Cell cleanout solid and liquid waste from the 24 in. sewer in the 221-B building. The site was retired in 11/67.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-206-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-B-60

CHEMICALS DISPOSED

SODIUM:	0 kg	FERROCYANIDE:	0 kg
POTASSIUM:	0 kg	FLUORIDE:	0 kg
AMMONIUM NITRATE:	0 kg	SODIUM SILICATE:	0 kg
NITRITE:	0 kg	OXALATE:	0 kg
NITRIC ACID:	0 kg	SODIUM HYDROXIDE:	0 kg
NITRATE:	0 kg	SODIUM ALUMINATE:	0 kg
SULFURIC ACID:	0 kg	TRIBUTYL PHOSPHATE:	0 kg
SULFATE:	0 kg	PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg	AMMONIUM CARBONATE:	0 kg
SODIUM DICHROMATE:	0 kg		

TOTAL VOLUME DISPOSED: 18900 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00456
ZR-95:	0.00000	PU-240:	0.00123
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.24000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	11.30000
CS-137:	5.11000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-C-1

ALIAS: 216-C Crib

STATUS: Inactive

DIMENSIONS:

Length: 27 ft

Width: 12 ft

Depth: 13 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 683 ft

WATERTABLE: 282 ft

HRS Migration Score: 50.336

LOCATION: 200 East

COORDINATES: N42069/W50235 (Center of crib)

SITE DESCRIPTION:

A 23 ft. x 8 ft. x 5.5 ft. concrete crib, constructed of 8 ft. x 8 in. x 8 in. concrete ties, 8 ft. x 8 in. x 4 in. spacer blocks, and 3.66 ft. x 8 ft. x 6 in. roof slabs. The excavation has bottom dimensions of 27 ft. x 12 ft. and is 13 ft. deep. There is 5 ft. (4,200 cu. ft.) of gravel fill, backfilled over with 2 ft. of soil, leaving 5 ft. of the excavation unfilled. The distance from the release point to the site bottom is 4 ft. The sideslope is 1:2.

SERVICE DATES: 1953-1957

SERVICE HISTORY:

From 1/53 to 9/55 the site received HSW (high salt waste) cold run waste and the process condensate from the 201-C building. From 9/55 to 6/57 the site received the HSW cold run waste from the 201-C building. The site was retired in 6/57.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-104-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-C-1

CHEMICALS DISPOSED

NITRATE:	0 kg
TRIBUTYL PHOSPHONATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	15000 kg
SODIUM:	0 kg
TOTAL VOLUME DISPOSED:	23400000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	70.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00204	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	93.80000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.45700
ZR-95:	0.00000	PU-240:	0.12300
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.09880
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	190.00000
CS-137:	0.04960	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-C-3

ALIAS: 201-C Leaching Pit

STATUS: Inactive

DIMENSIONS:

Length: 50 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 689 ft

WATERTABLE: 284 ft

HRS Migration Score: 1.035

LOCATION: 200 East

COORDINATES: N42055/W50390 (Center of crib)

SITE DESCRIPTION:

Trench--the excavation has 50 ft. x 10 ft. bottom dimensions, and is 10 ft. deep. This trench is now backfilled to grade. The sideslope is 1:1.

SERVICE DATES: 1953-1954

SERVICE HISTORY:

From 1/53 to 3/54 the site received acid waste from the 201-C, 215-C, and 271-C buildings. The site was retired in 3/54. The waste is acidic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-105-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-C-3

CHEMICALS DISPOSED

NITRATE:	20 kg
TRIBUTYL PHOSPHONATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SODIUM:	0 kg
TOTAL VOLUME DISPOSED:	5000000 Liters

Unknown quantity of nitric acid discharged.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00137	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	8.83000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.05710
ZR-95:	0.00000	PU-240:	0.01540
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.01530
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	17.80000
CS-137:	0.04630	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-C-4

ALIAS: None
STATUS: Inactive

DIMENSIONS:

Length: 20 ft
Width: 10 ft
Depth: 16 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 683 ft
WATERTABLE: 293 ft
HRS Migration Score: 1.089

LOCATION: 200 East
COORDINATES: N42060/W50430 (Center of crib)

SITE DESCRIPTION:

Crib, composed of 6 in. diameter galvanized, corrugated, perforated piping placed horizontally 11.5 ft. below grade. Two 20 ft. lengths are placed perpendicularly to the inlet pipe, forming an H pattern. The excavation has 10 ft. x 20 ft. bottom dimensions, and is 16 ft. deep. The sideslope is 1:1. There is approximately 6 ft. (2,600 cu. ft.) of gravel fill, backfilled over. The distance from the waste release point to the site bottom is 5 ft.

SERVICE DATES: 1955-1965

SERVICE HISTORY:

From 7/55 to 5/65 the site received contaminated organic waste from the 276-C building. The site was retired in 5/65.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-205-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-C-4

CHEMICALS DISPOSED

NITRATE:	0 kg
TRIBUTYL PHOSPHONATE:	14000 kg
PARAFFIN HYDROCARBON:	24000 kg
NITRIC ACID:	0 kg
SODIUM:	0 kg
TOTAL VOLUME DISPOSED:	47700 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00180	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	13.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.05710
ZR-95:	0.00000	PU-240:	0.01540
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00114
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	26.10000
CS-137:	0.04720	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-C-5

ALIAS: None
STATUS: Inactive
DIMENSIONS:
Length: 10 ft
Width: 20 ft
Depth: 16 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 683 ft
WATERTABLE: 290 ft
HRS Migration Score: 1.089

LOCATION: 200 East
COORDINATES: N42030/W50360 (Center of crib)

SITE DESCRIPTION:

Crib, composed of 6 in. diameter galvanized, corrugated, perforated piping placed horizontally 11 ft. below grade. Two 20 ft. lengths are placed perpendicularly to the inlet pipe, forming an H pattern. The excavation has 10 ft. x 20 ft. bottom dimensions, and is 16 ft. deep. There is approximately 6 ft. (2,600 cu. ft.) of gravel fill, backfilled over. The distance from the waste release point to the site bottom is 5 ft. The sideslope is 1:1.

SERVICE DATES: 1955-1955

SERVICE HISTORY:

From 3/55 to 6/55 the site received the HSW (high salt waste cold run waste from the 201-C building. The site was retired in 6/55. The waste is high salt.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-103-CN, 122440-110-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-C-5

CHEMICALS DISPOSED

NITRATE:	8000 kg
TRIBUTYL PHOSPHONATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SODIUM:	3000 kg
TOTAL VOLUME DISPOSED:	37800 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00179	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	4.61000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.05710
ZR-95:	0.00000	PU-240:	0.01540
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.01820
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	9.33000
CS-137:	0.04840	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-C-6

ALIAS: 241-CX Crib

STATUS: Inactive

DIMENSIONS:

Length: 20 ft

Width: 20 ft

Depth: 16 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 683 ft

WATERTABLE: 289 ft

HRS Migration Score: 1.035

LOCATION: 200 East

COORDINATES: N42015/W50066 (Center of crib)

SITE DESCRIPTION:

Crib, composed of 6 in. diameter galvanized, corrugated, perforated piping placed horizontally 1 ft. below grade. Two 20 ft. lengths are placed perpendicularly to the inlet pipe, forming an H pattern. The excavation has 20 ft. x 20 ft. bottom dimensions and is 16 ft. deep. There is approximately 6 ft. (2,600 cu. ft.) of gravel fill, backfilled over. The distance from the waste release point to the site bottom is 5 ft. The sideslope is 1:1.

SERVICE DATES: 1955-1964

SERVICE HISTORY:

From 9/55 to 9/64 the site received the process condensate from the 201-C building, and the 241-CX vault floor drainage in the 241-CX area. The site was retired in 9/64. The waste is acidic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-106-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-C-6

CHEMICALS DISPOSED

NITRATE:	330 kg
TRIBUTYL PHOSPHONATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SODIUM:	0 kg
TOTAL VOLUME DISPOSED:	530000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00246	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	31.60000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00571
ZR-95:	0.00000	PU-240:	0.00154
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00001
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	63.80000
CS-137:	0.05070	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-C-8

ALIAS: 271-CR Crib, 216-C-8 Crib

STATUS: Inactive

DIMENSIONS:

Length: 0 ft
Width: 0 ft
Depth: 16 ft
Diameter: 8 ft

FACILITY: French Drain

ELEVATION: 657 ft

WATERTABLE: 259 ft

HRS Migration Score: 0.708

LOCATION: 200 East

COORDINATES: N42625/W48168 (Center of drain)

SITE DESCRIPTION:

French drain, composed of a 6 ft. diameter x 8 ft. long concrete culvert placed vertically 4 ft. below grade. The culvert is filled with gravel and rests in an 8 ft. diameter x 16 ft. deep excavation with a slope of 5.5:1, which is partially filled with gravel, backfilled over.

SERVICE DATES: 1962-1965

SERVICE HISTORY:

From 6/62 to 6/65 the site received the ion exchange waste from the 271-CR building. The site was retired in 6/65. The waste volume is unknown. The site contains less than 10 Ci total beta activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-90-CN

Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-C-8

CHEMICALS DISPOSED

NITRATE:	3 kg
TRIBUTYL PHOSPHONATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	0 kg
SODIUM:	0 kg
TOTAL VOLUME DISPOSED:	10000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-C-10

ALIAS: None
STATUS: Inactive
DIMENSIONS:
Length: 32 ft
Width: 5 ft
Depth: 7 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 689 ft
WATERTABLE: 286 ft
HRS Migration Score: 47.819

LOCATION: 200 East
COORDINATES: N42100/W49870 (Center of crib)

SITE DESCRIPTION:

Crib, with a 3 in. diameter SST pipe, placed horizontally 4 ft. below grade. The excavation has bottom dimensions of 32 ft. x 5 ft. and is 7 ft. deep. The sideslope is 1:1.5. There is 4 ft. (1,700 cu. ft.) of gravel fill, backfilled over with dirt.

SERVICE DATES: 1964-1969

SERVICE HISTORY:

From 11/64 to 10/69 the site received process condensate and liquid waste from the 201-C building. The site was retired in 10/69. The waste is acidic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-108-CN
Drawings: H-2-34761, H-3-57210

SITE ID NO.: 216-C-10

CHEMICALS DISPOSED

NITRATE:	0 kg
TRIBUTYL PHOSPHONATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
NITRIC ACID:	600 kg
SODIUM:	0 kg
TOTAL VOLUME DISPOSED:	897000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01130	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	37.80000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00856
ZR-95:	0.00000	PU-240:	0.00231
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00001
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	75.90000
CS-137:	0.09320	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 218-E-1

ALIAS: 200 East Dry Waste Burial Ground

STATUS: Inactive

DIMENSIONS:

Length: 486 ft

Width: 290 ft

Depth: 9 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 712 ft

WATERTABLE: 310 ft

HRS Migration Score: 0.653

LOCATION: 200 East

COORDINATES: N39815/W49847, N39815/W49361, N39525/W49361, N39525/W49847

SITE DESCRIPTION:

The site consists of fifteen 200 ft. long trenches running north-south, with widths ranging from 16-20 ft. All sunken trenches in the burial ground have been filled to ground level with cinders from 200 East Power Plant and then covered with coarse gravel.

SERVICE DATES: 1945-1953

SERVICE HISTORY:

This burial ground received approximately 1.1E+05 cubic ft. of mixed MFP/TRU dry wastes, which was backfilled over. This site is now retired.

REFERENCES:

Documents: ARH-2757, RHO-CD-673

Photographs: 122440-111-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 218-E-1

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1.94000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	51.40000
ZR-95:	0.00000	PU-240:	13.90000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	2.13370	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.13400
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	3.41398
CS-137:	2.07550	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 218-E-2

ALIAS: 200 East Industrial Waste #2

STATUS: Inactive

DIMENSIONS:

Length: 541 ft

Width: 441 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 669 ft

WATERTABLE: 265 ft

HRS Migration Score: 0.653

LOCATION: 200 East

COORDINATES: N44827/W53500, N44400/W53500, N44400/W53950, N44827/W53950

SITE DESCRIPTION:

This burial ground consists of 10 industrial waste trenches. The estimated lengths range from 90 ft. to 465 ft. and the bottom widths are 11 ft.

SERVICE DATES: 1945-1953

SERVICE HISTORY:

The site received 3.10E-03 cubic meters of mixed MFP/TRU, which were backfilled. The site has been retired and stabilized.

REFERENCES:

Documents: RHO-CD-673

Photographs: 122440-59-CN, 122440-60-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 218-E-2

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	485.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	45.70000
ZR-95:	0.00000	PU-240:	12.30000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	538.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.10100
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	893.00000
CS-137:	519.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 218-E-2A

ALIAS: Regulated Equipment Storage Site No-2A

STATUS: Inactive

DIMENSIONS:

Length: 350 ft

Width: 25 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Burial Trench

ELEVATION: 673 ft

WATERTABLE: 273 ft

HRS Migration Score: 0.000

LOCATION: 200 East

COORDINATES: N44300/W53800, N44300/W53450, N44250/W53800, N44250/W53450

SITE DESCRIPTION:

This site contains one trench with approximate bottom dimensions 340 ft. x 5 ft. The site was also used as an above ground storage site for regulated equipment.

SERVICE DATES: 1945-1950

SERVICE HISTORY:

This site stored regulated equipment, and contains one dry waste trench. This site has been retired and stabilized.

REFERENCES:

Documents: RHO-CD-673

Photographs: 122440-61-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 218-E-2A

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 218-E-3

ALIAS: None
STATUS: Exhumed

DIMENSIONS:

Length: 42 ft
Width: 30 ft
Depth: 6 ft
Diameter: 0 ft

FACILITY: Burial Ground
ELEVATION: 736 ft
WATERTABLE: 335 ft
HRS Migration Score: 0.000

LOCATION: 200 East
COORDINATES: N37525/W56550

SITE DESCRIPTION:

This site has been exhumed and release from Radiation Zone status, and the fence removed.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

The site is now retired, and has been exhumed.

REFERENCES:

Documents: RHO-CD-673
Photographs: 122440-209-CN
Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 218-E-3

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site has been exhumed, therefore no radioactivity is present.

These values are decayed through April 1, 1986.

SITE ID NO.: 218-E-4

ALIAS: 200 East/Minor Construction No. 4
STATUS: Inactive
DIMENSIONS:
Length: 780 ft
Width: 200 ft
Depth: 15 ft
Diameter: 0 ft

FACILITY: Burial Ground
ELEVATION: 681 ft
WATERTABLE: 277 ft
HRS Migration Score: 0.653

LOCATION: 200 East
COORDINATES: N43757/W53575, N43666/W53700, N44175/W54170, N44300/W54150

SITE DESCRIPTION:

This burial ground was previously thought to have contained two trenches, however, load testing performed during preliminary stabilization work failed to indicate any clearly defined trenches. Also all contaminated equipment previously stored above ground here was removed.

SERVICE DATES: 1955-1956

SERVICE HISTORY:

This burial ground received repair and construction wastes from 221-B building modifications. It has been retired and is stabilized.

REFERENCES:

Documents: RHO-CD-673
Photographs: 122440-62-CN
Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 218-E-4

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.19400	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.57100
ZR-95:	0.00000	PU-240:	0.15400
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.21500	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00034
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.39400
CS-137:	0.20800	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 218-E-5

ALIAS: None
STATUS: Inactive

DIMENSIONS:
Length: 340 ft
Width: 131 ft
Depth: 15 ft
Diameter: 0 ft

FACILITY: Burial Ground
ELEVATION: 676 ft
WATERTABLE: 270 ft
HRS Migration Score: 0.653

LOCATION: 200 East
COORDINATES: N44827/W54177, N44400/W53950, N44400/W54177, N44827/W54177

SITE DESCRIPTION:

This burial ground contains 2 trenches. Trench #3 is 325 ft. long and 11 ft. wide (bottom dimensions). Trench #2 is 325 ft. long and 125 ft. wide (estimated bottom dimensions) and composed of several trenches running north-south.

SERVICE DATES: 1954-1956

SERVICE HISTORY:

This site received industrial dry waste and small boxes. The north end contains railroad box cars contaminated with Uranyl-Nitrate-Hexahydrate (UNH). In 1956, the site was retired. In 1979, these trenches were covered with additional fill and stabilized as one trench area.

REFERENCES:

Documents: RHO-CD-673
Photographs: 122440-59-CN, 122440-60-CN
Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 218-E-5

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	146.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	35.40000
ZR-95:	0.00000	PU-240:	9.55000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	161.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.04020
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	297.00000
CS-137:	156.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 218-E-5A

ALIAS: 200 East Industrial Waste N. 5A

STATUS: Inactive

DIMENSIONS:

Length: 120 ft

Width: 100 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 676 ft

WATERTABLE: 270 ft

HRS Migration Score: 0.653

LOCATION: 200 East

COORDINATES: N44827/W54177, N44400/W54177, N44400/W54609, N44827/W54609

SITE DESCRIPTION:

This burial ground, referred to as the 202-A Burial Package, contains four very large burial boxes buried within a 100 ft by 120 ft rectangular area. The D-2 column from PUREX K Cell was also buried there.

SERVICE DATES: 1956-1959

SERVICE HISTORY:

This site received an L Cell composed of 4 large boxes containing failed equipment/industrial wastes, one of which was damaged during unloading. The contents were pushed into the trench. The site has been retired and has been stabilized.

REFERENCES:

Documents: RHO-CD-673

Photographs: 122440-59-CN, 122440-60-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 218-E-5A

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	320.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	78.80000
ZR-95:	0.00000	PU-240:	21.20000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	355.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.04020
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	696.00000
CS-137:	343.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 218-E-6

ALIAS: None

STATUS: Exhumed

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 0 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 702 ft

WATERTABLE: 298 ft

HRS Migration Score: 0.000

LOCATION: 200 East

COORDINATES: N42225/W53360,

SITE DESCRIPTION:

This burial ground has been exhumed and released from Radiation Zone status.

SERVICE DATES: 1955-1955

SERVICE HISTORY:

This site at one time contained buried contamination consisting of a shack and other wooden items which were removed from the 291-B stack area during a cleanup of the exclusion area. A four ft. deep trench was dug and the items buried with the ashes being covered. The site has been exhumed and all items and soil from the bottom of the site were disposed of in the 200 East Area Burial Ground.

REFERENCES:

Documents: ARH-2015

Photographs: 122440-208-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 218-E-6

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site has been exhumed, therefore no radioactivity is present.

These values are decayed through April 1, 1986.

SITE ID NO.: 218-E-7

ALIAS: 200 East/222-B Vaults

STATUS: Inactive

DIMENSIONS:

Length: 10 ft

Width: 15 ft

Depth: 25 ft

Diameter: 0 ft

FACILITY: Burial Vaults (3)

ELEVATION: 703 ft

WATERTABLE: 304 ft

HRS Migration Score: 0.653

LOCATION: 200 East

COORDINATES: N42280/W53760, N42250/W53820 (Center line of vaults)

SITE DESCRIPTION:

This site consists of three underground vaults, the first built in 1945 and filed by 1950 at which time the second vault was constructed and was still in use in 1952. These two original wooden vaults are 10 sq. ft. by 12 ft. deep and are made of 2 in. x 2 in. wooden planking with the top 5 ft. below grade, and open at bottom. The third replacement vault is an 8 ft. diameter concrete culvert pipe encasement (25 ft. 2 in. deep). The encasement has a 9 in. concrete cover and a 12 in. thick concrete floor. The site is covered with heavy vegetation.

SERVICE DATES: 1947-1952

SERVICE HISTORY:

The site is now retired. Contents of the site are mixed MFP/TRU. The site has been retired.

REFERENCES:

Documents: RHO-CD-673

Photographs: 122440-70-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 218-E-7

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	11.60000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.05710
ZR-95:	0.00000	PU-240:	0.01540
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	12.90000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00033
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	20.80000
CS-137:	12.40000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 218-E-8

ALIAS: 200 East Construction Burial Ground

STATUS: Inactive

DIMENSIONS:

Length: 400 ft

Width: 115 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 612 ft

WATERTABLE: 230 ft

HRS Migration Score: 0.653

LOCATION: 200 East

COORDINATES: N45284/W48411, N45282/W48419, N44882/W48534, N44884/W48526

SITE DESCRIPTION:

This burial ground consists of an unknown number of trenches.

SERVICE DATES: 1958-1959

SERVICE HISTORY:

The site received approximately $8.0E+04$ cu. ft. of MFP/TRU waste, including repair and construction wastes from 293-A and the PUREX new crane addition. The site has been retired.

REFERENCES:

Documents: RHO-CD-673

Photographs: 122440-87-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 218-E-8

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.19400	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	1.14000
ZR-95:	0.00000	PU-240:	0.30800
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.21500	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00067
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.42800
CS-137:	0.20800	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-E-9

ALIAS: 200 E Regulated Equipment Storage Site No. 9
STATUS: Inactive
DIMENSIONS: Length: 427 ft
Width: 100 ft
Depth: 5 ft
Diameter: 0 ft
FACILITY: Burial Vault
ELEVATION: 672 ft
WATERTABLE: 273 ft
HRS Migration Score: 0.000

LOCATION: 200 East
COORDINATES: N44827/W53400, N44400/W53400, N44827/W53500, N44400/W53500

SITE DESCRIPTION:

This site is considered an Above Ground Storage Site covering 6.2E+04 sq. meters.

SERVICE DATES: 1953-1958

SERVICE HISTORY:

This site was a storage site for fission product equipment which became contaminated in the uranium recovery program at the tank farm. The site has been retired and stabilized.

REFERENCES:

Documents: RHO-CD-673
Photographs: 122440-59-CN, 122440-60-CN
Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 218-E-9

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 218-E-12A

ALIAS: 200 East Dry Waste No. 12A

STATUS: Inactive

DIMENSIONS:

Length: 1188 ft

Width: 40 ft

Depth: 16 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 640 ft

WATERTABLE: 245 ft

HRS Migration Score: 0.653

LOCATION: 200 East

COORDINATES: N44080/W48497, N43213/W48520, N43400/W49685, N44340/W49685

SITE DESCRIPTION:

Burial Ground, containing 28 dry waste burial trenches. Henry Burton (an operator during service period, who dug and back filled several trenches) indicated trenches were often 40 ft. wide rather than the 30 ft. as shown in the plans. Also, according to Burton, backfill was substantially less than the present requirement of 8 ft. Visual observations confirmed some waste visible at surface, prior to stabilization efforts.

SERVICE DATES: 1953-1967

SERVICE HISTORY:

This site was active from 1953 to 1967. The contents are: Trenches 1-3, 12-14, 17-25 contain predominately dry waste packaged in cardboard boxes and plastic bags. Trenches 4-11, 15-16, 26-28 contain predominately acid soaked materials. Trench 28 specific contents are unlisted.

REFERENCES:

Documents: RHO-CD-673

Photographs: 122440-95-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 218-E-12A

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	17.20000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	510.00000
ZR-95:	0.00000	PU-240:	138.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	16.10000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.33200
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	42.70000
CS-137:	18.40000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 218-E-13

ALIAS: UN-218-E-1

STATUS: Inactive

DIMENSIONS:

Length: 20 ft

Width: 15 ft

Depth: 8 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 608 ft

WATERTABLE: 302 ft

HRS Migration Score: 0.000

LOCATION: 200 East

COORDINATES: N40180/W49100 (Center of pit)

SITE DESCRIPTION:

This is an unplanned burial site, approximately 40 ft. x 46 ft. covering an area of 170 sq. meters.

SERVICE DATES: 1966-1966

SERVICE HISTORY:

This burial ground was active in 8/66. The site contains broken pieces of contaminated concrete from the pipe trench which were left in the excavation hole and buried following repair to piping at that location.

REFERENCES:

Documents: ARH-2757, RHO-CD-673

Photographs: 122440-207-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 218-E-13

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 218-E-14

ALIAS: Purex Tunnel No. 1

STATUS: Inactive

DIMENSIONS:

Length: 358 ft

Width: 19 ft

Depth: 22.5 f

Diameter: 0 ft

FACILITY: Burial Tunnel

ELEVATION: 719 ft

WATERTABLE: 305 ft

HRS Migration Score: 0.653

LOCATION: 200 East

COORDINATES: N39555/W48020, N39196/W48020 (Center line of tunnel)

SITE DESCRIPTION:

This site consists of a 358 ft. long, 22.5 ft. high, and 19 ft. wide wooden railroad tunnel running north-south. The tunnel is constructed of 12 in. thick concrete and is covered with 8 ft. of soil. It consists of 3 areas: a water filled door 924.5 ft. high, 21.5 ft. wide and 7 ft. thick), storage area, and vent shaft. The tunnel is ventilated by an absolute filtered exhauster at the south end.

SERVICE DATES: 1960-1964

SERVICE HISTORY:

The burial tunnel was active from 6/60 to 5/64. The site contains extremely large, heavy or highly contaminated waste equipment stored on 8 railroad flat cars.

REFERENCES:

Documents: RHO-CD-673

Photographs: 122440-116-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 218-E-14

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1690.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	1590.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	3970.00000
CS-137:	1810.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 200 East Burning Pit

ALIAS: None
STATUS: Inactive

DIMENSIONS:

Length: 394 ft
Width: 201 ft
Depth: 15 ft
Diameter: 0 ft

FACILITY: Burning Pit
ELEVATION: 605 ft
WATERTABLE: 200 ft
HRS Migration Score: 0.000

LOCATION: 200 East
COORDINATES: N45000/W48000

SITE DESCRIPTION:

A pit used to burn non-radioactive material.

SERVICE DATES: 1950-1970

SERVICE HISTORY:

Construction and Office Waste Volume 1.5×10^3 cubic meters.
Paint Wastes. Chemicals and Solvents 1.0×10^3 cubic meters.

REFERENCES:

Documents: None
Photographs: 122440-86-CN
Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 200 East Burning Pit

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not deliberately used to dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: 200 Area Construction Pit

ALIAS: 200 Area Construction Waste Site

STATUS: Inactive

DIMENSIONS:

Length: 1500 ft

Width: 500 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Pit

ELEVATION: 670 ft

WATERTABLE: 270 ft

HRS Migration Score: 0.000

LOCATION: 200 East

COORDINATES: N44750/W57000, N43250/W57000 (Center line of site)

SITE DESCRIPTION:

Originally a large gravel pit adjacent to and west of the 200 East Area West fence line.

SERVICE DATES: 1945-1955

SERVICE HISTORY:

Several truckloads of broken blocks of concrete foundations and other structures have been dumped into this gravel pit during the past several years. There have been no known chemicals dumped into this pit.

REFERENCES:

Documents: None

Photographs:

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 200 Area Construction Pit

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

200-NORTH AREA ENGINEERED-FACILITY SITES

The following sites are included in this section. To locate these sites, please refer to the appropriate area map in Appendix B, Volume 1, of this document.

200-North Area

216-N-1
216-N-2
216-N-3
216-N-4
216-N-5
216-N-6
216-N-7

SITE ID NO.: 216-N-1

ALIAS: 212-N Swamp, 216-N-1 Swamp, 216-N-1 Covered Pond
STATUS: Inactive FACILITY: Pond
DIMENSIONS: ELEVATION: 567 ft
Length: 500 ft WATERTABLE: 162 ft
Width: 100 ft HRS Migration Score: 0.000
Depth: 3 ft
Diameter: 0 ft

LOCATION: 200 North
COORDINATES: Head: N53700/W65050 End: N54125/W65475

SITE DESCRIPTION:

Pond, measuring 500 ft. long x 100 ft. wide.

SERVICE DATES: 1944-1952

SERVICE HISTORY:

From 1944 to 1952 the site received the basin overflow from the 212-N building. The site was retired in 1952.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-29-CN
Drawings: H-3-57210

SITE ID NO.: 216-N-1

CHEMICALS DISPOSED

TOTAL VOLUME DISPOSED: 946000000 Liters

No chemicals discharged.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-N-2

ALIAS: 216-N-1 Trench, 216-N-2 Trench

STATUS: Inactive

DIMENSIONS:

Length: 50 ft

Width: 10 ft

Depth: 7 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 578 ft

WATERTABLE: 173 ft

HRS Migration Score: 45.303

LOCATION: 200 North

COORDINATES: N55485/W65788 (Center of trench)

SITE DESCRIPTION:

Trench, measuring 50 ft. long x 10 ft. wide (bottom dimensions), with a depth of 7 ft.

SERVICE DATES: 1947-1947

SERVICE HISTORY:

From 3/47 to 4/47 the site received the basin water and sludge cleanout when it was drained for special tests. The site was retired in 4/47 and the trench backfilled. The waste type is low activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-30-CN

Drawings: H-3-57210

SITE ID NO.: 216-N-2

CHEMICALS DISPOSED

TOTAL VOLUME DISPOSED: 7570000 Liters

No chemicals discharged.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.07540	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.31600
CS-137:	0.08560	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-N-3

ALIAS: 212-N-2 Trench, 212-N-3 Trench

STATUS: Inactive

DIMENSIONS:

Length: 50 ft

Width: 20 ft

Depth: 6 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 578 ft

WATERTABLE: 173 ft

HRS Migration Score: 45.303

LOCATION: 200 North

COORDINATES: N55455/W65838 (Center of trench)

SITE DESCRIPTION:

Trench, with 50 ft. long x 20 ft. wide bottom dimensions, with a depth of 6 ft.

SERVICE DATES: 1952-1952

SERVICE HISTORY:

From 5/52 to 6/52 the site received basin water and sludge cleanout from the 212-N building when the area was shut down. The site was retired in 6/52.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-30-CN

Drawings: *H-3-57210

SITE ID NO.: 216-N-3

CHEMICALS DISPOSED

TOTAL VOLUME DISPOSED: 7570000 Liters

No chemicals discharged.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.08520	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.35600
CS-137:	0.09600	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-N-4

ALIAS: 212-P Swamp, 216-N-2, 216-N-4 Swamp

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 200 ft

Depth: 3 ft

Diameter: 0 ft

FACILITY: Pond

ELEVATION: 558 ft

WATERTABLE: 153 ft

HRS Migration Score: 45.303

LOCATION: 200 North

COORDINATES: Head: N53400/W62600, End: N54300/W62700

SITE DESCRIPTION:

Pond, with 500 ft. x 200 ft. wide bottom dimensions.

SERVICE DATES: 1944-1952

SERVICE HISTORY:

From 9/44 to 6/52 the site received the basin overflow waste from the 212-P Building. The site was retired in 6/52 when the 212-P building was shut down.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-27-CN

Drawings: H-3-57210

SITE ID NO.: 216-N-4

CHEMICALS DISPOSED

TOTAL VOLUME DISPOSED: 94600000 Liters

No chemicals discharged.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.07830	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.05710
ZR-95:	0.00000	PU-240:	0.01540
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00152
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.31400
CS-137:	0.08860	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-N-5

ALIAS: 212-P-Trench, 216-N-5 Trench

STATUS: Inactive

DIMENSIONS:

Length: 80 ft

Width: 15 ft

Depth: 6 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 575 ft

WATERTABLE: 170 ft

HRS Migration Score: 45.303

LOCATION: 200 North

COORDINATES: N55408/W63130, N55495/W63225 (Diagonally)

SITE DESCRIPTION:

Trench, with dimensions of 80 ft. long x 15 ft. wide x 6 ft. deep.

SERVICE DATES: 1952-1952

SERVICE HISTORY:

From 5/52 to 6/52 the site received the basin water and sludge cleanout from the 212-P Basin during shutdown of the area. The site was retired in 6/52.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-28-CN

Drawings: H-3-57210

SITE ID NO.: 216-N-5

CHEMICALS DISPOSED

TOTAL VOLUME DISPOSED: 7570000 Liters

No chemicals discharged.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.08520	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.35600
CS-137:	0.09600	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-N-6

ALIAS: 212-R Swamp, 216-N-6 Swamp

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 150 ft

Depth: 3 ft

Diameter: 0 ft

FACILITY: Pond

ELEVATION: 557 ft

WATERTABLE: 152 ft

HRS Migration Score: 45.303

LOCATION: 200 North

COORDINATES: Head: N53600/W60030, End: N54350/W60115

SITE DESCRIPTION:

Pond, with 500 ft. long x 150 ft. wide bottom dimensions.

SERVICE DATES: 1944-1952

SERVICE HISTORY:

From 9/44 to 6/52 the site received the normal overflow from the 212-R Basin. The site was retired in 6/52 when 212-R was shut down.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-26-CN

Drawings: H-3-57210

SITE ID NO.: 216-N-6

CHEMICALS DISPOSED

TOTAL VOLUME DISPOSED: 946000000 Liters

No chemicals discharged.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.07830	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.05710
ZR-95:	0.00000	PU-240:	0.01320
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00152
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.32800
CS-137:	0.08860	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-N-7

ALIAS: 212-R Trench, 216-N-7 Trench

STATUS: Inactive

DIMENSIONS:

Length: 80 ft

Width: 15 ft

Depth: 6 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 571 ft

WATERTABLE: 152 ft

HRS Migration Score: 45.303

LOCATION: 200 North

COORDINATES: N55399/W60505, N55482/W60605 (Diagonally)

SITE DESCRIPTION:

Trench, with dimensions of 80 ft. long x 15 ft. wide x 6 ft. deep.

SERVICE DATES: 1952-1952

SERVICE HISTORY:

From 5/52 to 6/52 the site received the basin water and sludge cleanout waste from 212-R Basin. The site was retired in 6/52 when 212-R was shut down.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-25-CN

Drawings: H-3-57210

SITE ID NO.: 216-N-7

CHEMICALS DISPOSED

TOTAL VOLUME DISPOSED: 7570000 Liters

No chemicals discharged.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.08520	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.35600
CS-137:	0.09600	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

200-WEST AREA ENGINEERED-FACILITY SITES

The following sites are included in this section. To locate these sites, please refer to the appropriate area map in Appendix B, Volume 1, of this document.

200-West Area

216-S-1&2	216-T-14	216-U-13
216-S-3	216-T-15	216-U-15
216-S-4	216-T-16	216-Z-1A
216-S-5	216-T-17	216-Z-1(D)
216-S-6	216-T-18	216-Z-1&2
216-S-7	216-T-19	216-Z-3
216-S-8	216-T-20	216-Z-4
216-S-9	216-T-21	216-Z-5
216-S-11	216-T-22	216-Z-6
216-S-12	216-T-23	216-Z-7
216-S-13	216-T-24	216-Z-8
216-S-14	216-T-25	216-Z-9
216-S-15	216-T-26	216-Z-10
216-S-16P	216-T-27	216-Z-11
216-S-16D	216-T-28	216-Z-12
216-S-17	216-T-29	216-Z-16
216-S-18	216-T-30	216-Z-17
216-S-20	216-T-31	216-Z-18
216-S-21	216-T-32	218-W-1
216-S-22	216-T-33	218-W-1A
216-S-23	216-T-34	218-W-2
216-T-2	216-T-35	218-W-3
216-T-3	216-T-36	218-W-4A
216-T-4-1(D)	216-U-1&2	218-W-7
216-T-4A	216-U-3	218-W-8
216-T-5	216-U-4	218-W-9
216-T-6	216-U-4A	218-W-11
216-T-7	216-U-4B	207-S Retention Basin
216-T-8	216-U-5	207-Z Retention Basin
216-T-9	216-U-6	Construction Surface
216-T-10	216-U-7	Laydown Area
216-T-11	216-U-8	200-West Burning Pit
216-T-12	216-U-9	Z-Plant Burning Pit
216-T-13	216-U-11	

SITE ID NO.: 216-S-1 & 2

ALIAS: 216-X-5
STATUS: Inactive
DIMENSIONS:

Length: 90 ft
Width: 40 ft
Depth: 35 ft
Diameter: 0 ft

FACILITY: Crib (2)
ELEVATION: 667 ft
WATERTABLE: 197 ft
HRS Migration Score: 55.369

LOCATION: 200 West
COORDINATES: N35444/W75214 (Center: 216-S-1), N35419/W75170 (Center: 216-S-2)

SITE DESCRIPTION:

Two 12 ft. x 12 ft. x 9 ft. high cribs made of 6 in. x 6 in. timbers. The cribs sit in a 90 ft. x 40 ft. x 35 ft. deep excavation. The two structures are 50 ft. from center to center. Crib 216-S-2 received overflow from 216-S-1.

SERVICE DATES: 1952-1956

SERVICE HISTORY:

From 1/52 to 1/56 the site received cell drainage from D-1 receiver tank and redistilled condensate from D-2 receiver tank in 202-S building. The site was retired in 1/56.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-240-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74443

SITE ID NO.: 216-S-1 & 2

CHEMICALS DISPOSED

NITRATE:	60000 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	60000 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	100000 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	10000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg

TOTAL VOLUME DISPOSED: 160000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	4000.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.16800	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1370.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	68.50000
ZR-95:	0.00000	PU-240:	18.50000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.76000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	5190.00000
CS-137:	1200.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-3

ALIAS: 216-S-5
STATUS: Inactive
DIMENSIONS:
Length: 100 ft
Width: 10 ft
Depth: 6 ft
Diameter: 0 ft

FACILITY: French Drain (2)
ELEVATION: 667 ft
WATERTABLE: 190 ft
HRS Migration Score: 47.819

LOCATION: 200 West
COORDINATES: N35964/W75480 (Drain #1), N36064/W75480 (Drain #2)

SITE DESCRIPTION:

Two French Drain structures, 10 ft. x 10 ft. bottom surface
(each) spaced 50 ft. apart.

SERVICE DATES: 1953-1956

SERVICE HISTORY:

From 9/53 to 8/56 the site received condensate from condensers on
the 101-S and 104-S tanks in the 241-S Tank Farm. The site was
deactivated in 8/56. The waste is low salt, and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-242-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74443

SITE ID NO.: 216-S-3

CHEMICALS DISPOSED

NITRATE:	9 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	5 kg
SODIUM DICHROMATE:	2 kg
SODIUM HYDROXIDE:	2 kg
SODIUM ALUMINATE:	3 kg
AMMONIUM NITRATE:	0 kg
TOTAL VOLUME DISPOSED:	4200000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	3000.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01660	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.45500	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.02800
ZR-95:	0.00000	PU-240:	0.00770
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00013
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	46.80000
CS-137:	23.90000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-4

ALIAS: 216-S-7, 216-S-4 Sump, UN-216-W-1

STATUS: Inactive

DIMENSIONS:

Length: 0 ft
Width: 0 ft
Depth: 20 ft
Diameter: 2.5 ft

FACILITY: French Drain

ELEVATION: 659 ft

WATERTABLE: 180 ft

HRS Migration Score: 47.819

LOCATION: 200 West

COORDINATES: N36070/W76615 (Center of drain)

SITE DESCRIPTION:

Two French Drains, with 30 in. diameter rock-filled encasements.

SERVICE DATES: 1953-1956

SERVICE HISTORY:

From 8/53 to 9/53 the site received condensate and cooling water from condensers on the 101-S and 104-S tanks in the 241-S Tank Farm. From 9/53 to 8/56 the site received the same cooling water as above, but rerouted the condensate to the 216-S-3 crib. The site was retired in 8/56 when the tank air condensers were reactivated.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-178-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74443

SITE ID NO.: 216-S-4

CHEMICALS DISPOSED

NITRATE:	1 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
TOTAL VOLUME DISPOSED:	1000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.02000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-5

ALIAS: 216-S-5 Cavern #1, 261-S-9 Crib

STATUS: Inactive

DIMENSIONS:

Length: 210 ft

Width: 210 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 651 ft

WATERTABLE: 180 ft

HRS Migration Score: 47.819

LOCATION: 200 West

COORDINATES: N32740/W77000 (Center of crib)

SITE DESCRIPTION:

One gravel filled crib, with a bottom surface of 210 ft. x 210 ft. The sideslope is 1.5:1. The crib contains approximately 16,333 cu. yd. of gravel fill. Two lengths of 30 in. diameter perforated corrugated metal pipe form a cross 180 ft. x 190 ft. 1/4 in. plate cover seals three ends of the pipe (plates are perforated).

SERVICE DATES: 1954-1957

SERVICE HISTORY:

From 3/54 to 3/57 the site received process vessel cooling water and steam condensate from 202-S. The site was deactivated in 3/57 when the top of the crib began to cave in.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-146-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-2594, H-2-5962, H-2-74444, H-2-72

SITE ID NO.: 216-S-5

CHEMICALS DISPOSED

NITRATE:	100 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg

TOTAL VOLUME DISPOSED: 4100000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.16000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00157	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	59.40000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	33.10000
ZR-95:	0.00000	PU-240:	8.93000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.09110
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	174.00000
CS-137:	28.80000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-6

ALIAS: 216-S-6 Cavern #2, 216-S-13, 216-S-5

STATUS: Inactive

DIMENSIONS:

Length: 210 ft

Width: 210 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 651 ft

WATERTABLE: 180 ft

HRS Migration Score: 47.819

LOCATION: 200 West

COORDINATES: N33250/W77850 (Center of crib)

SITE DESCRIPTION:

Crib with bottom dimensions of 210 ft. x 210 ft. The crib is filled with approximately 116,333 cu. yd. of gravel fill. Waste lines are approximately 7 ft. below the surface of the crib. The risers are approximately 2 ft. below the surface of the crib. The surface of the crib is approximately 10 ft. below surrounding ground surface.

SERVICE DATES: 1954-1972

SERVICE HISTORY:

From 11/64 to 6/67 the site received the process vessel cooling water and steam condensate from the 202-S building. From 6/67 to 7/67 production operations were shut down and the 202-S building put on standby. From 7/67 to 7/72 the site received the steam condensate from the D-12 and D-14 waste concentrators in the 202-S building. The site was retired in 7/72. The waste is low salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176, ARH-2190

Photographs: 122440-47-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-2594, H-2-74444

SITE ID NO.: 216-S-6

CHEMICALS DISPOSED

NITRATE:	140 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg

TOTAL VOLUME DISPOSED: 4470000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.50000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.25800	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	224.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	27.00000
ZR-95:	0.00000	PU-240:	7.28000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00008	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.91200
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	125.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-7

ALIAS: 216-S-15
STATUS: Inactive

DIMENSIONS:

Length: 100 ft
Width: 50 ft
Depth: 22 ft
Diameter: 0 ft

FACILITY: Crib (2)
ELEVATION: 674 ft
WATERTABLE: 202 ft
HRS Migration Score: 57.887

LOCATION: 200 West
COORDINATES: N35152/W74510 (Center of site)

SITE DESCRIPTION:

Two 16 ft. x 16 ft. x 5 ft. wooden structures, 34 ft. apart in a crib with 100 ft. x 50 ft. bottom dimensions. The wooden structures are suspended in gravel fill and covered with 15 ft. of dirt.

SERVICE DATES: 1956-1965

SERVICE HISTORY:

From 1/56 to 4/59 the site received cell drainage from D-1 receiver tank, process condensate from D-2 receiver tank, and condensate from H-6 condenser in 202-S. From 4/59 to 7/65 the site received the same waste except rerouted the H-6 condensate to U.G.S. The site was retired in 7/65 when it reached the prescribed radionuclide disposal limit. The D-1 waste was rerouted to the 202-S building concentrators for boil-down and discharge to U.G.S., and the D-2 waste to the 216-S-9 crib.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-246-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74443, H-2-74444

SITE ID NO.: 216-S-7

CHEMICALS DISPOSED

NITRATE:	110000 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	40000 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	250000 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	7000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg

TOTAL VOLUME DISPOSED: 390000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.64700	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1520.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	25.10000
ZR-95:	0.00000	PU-240:	6.78000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00002	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.86800
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	4590.00000
CS-137:	767.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-8

ALIAS: Cold Aqueous Trench

STATUS: Inactive

DIMENSIONS:

Length: 100 ft

Width: 60 ft

Depth: 25 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 663 ft

WATERTABLE: 192 ft

HRS Migration Score: 2.069

LOCATION: 200 West

COORDINATES: N35300/W75370 (Center of trench)

SITE DESCRIPTION:

One trench, 100 ft. x 60 ft. bottom surface.

SERVICE DATES: 1951-1952

SERVICE HISTORY:

From 11/51 to 2/52 the site received unirradiated start-up waste from the 202-S building. The site was retired in 2/52 when the discharge of start-up waste to the trench was completed.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-239-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74443

SITE ID NO.: 216-S-8

CHEMICALS DISPOSED

NITRATE:	100 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
TOTAL VOLUME DISPOSED:	10000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00114	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.42300	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.11400
ZR-95:	0.00000	PU-240:	0.03080
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.06530
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	11.40000
CS-137:	5.36000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-9

ALIAS: None
STATUS: Inactive
DIMENSIONS:
Length: 300 ft
Width: 30 ft
Depth: 30 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 678 ft
WATERTABLE: 205 ft
HRS Migration Score: 50.336

LOCATION: 200 West
COORDINATES: N35920/W74455, N36290/W74550 (Center line of crib)

SITE DESCRIPTION:

One gravel crib, 300 ft. x 30 ft. bottom area, 25 ft. below grade, with a sideslope of 1:1.5. The distribution system consists of 581 ft. of 6 in V.C.T. perforated pipe in a U shape (15 ft. x 295 ft.) and connected by 24 ft. of 3 in. SCH 10 pipe in a Y shape through which the waste flowed into the trench, all 21 ft. below grade.

SERVICE DATES: 1965-1969

SERVICE HISTORY:

From 7/65 to 1/69 the site received process condensate from D-2 receiver tank in the 202-S building. The site was retired in 1/69 when it reached prescribed radionuclide limits. The waste was rerouted to the 216-S-13 crib. The waste is acidic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-243-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74443

SITE ID NO.: 216-S-9

CHEMICALS DISPOSED

NITRATE:	0 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	30000 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
TOTAL VOLUME DISPOSED:	50300000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	6000.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	2.16000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	106.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	3.71000
ZR-95:	0.00000	PU-240:	1.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00383	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.01140
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	825.00000
CS-137:	316.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-11

ALIAS: 202-S Chemical Sump #2, 216-S-11 Swamp

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 200 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Ponds (2)

ELEVATION: 651 ft

WATERTABLE: 180 ft

HRS Migration Score: 45.303

LOCATION: 200 West

COORDINATES: N32450/W76725 (Center of #1), N32000/W76900 (Center of #2)

SITE DESCRIPTION:

Pond, covering 1.5 acres.

SERVICE DATES: 1954-1965

SERVICE HISTORY:

From 5/54 to 8/65 the site received the waste from air conditioning and drains in 202-S and the chemical sewer waste from 202-S, via the 216-S-10 Ditch. In 8/65 earth dammed the 216-S-10 Ditch to the S-11 Pond, diverting all building effluent to the 216-S-10 Pond. The site is currently inactive and has been stabilized.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-42-CN, 122440-43-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 216-S-11

CHEMICALS DISPOSED

NITRATE:	0 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg

TOTAL VOLUME DISPOSED: 5550000000 Liters

Chemical spillage occurred-quantities unknown.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.01080	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.60000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.01770
ZR-95:	0.00000	PU-240:	0.00477
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00004
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.07370
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	2.73000
CS-137:	0.75900	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-12

ALIAS: 291-S Stack Wash Sump, Redox Stack Flush Trench
STATUS: Inactive FACILITY: Trench
DIMENSIONS: ELEVATION: 687 ft
Length: 90 ft WATERTABLE: 210 ft
Width: 20 ft HRS Migration Score: 1.035
Depth: 10 ft
Diameter: 0 ft

LOCATION: 200 West
COORDINATES: N34965/W73384 (Northwest corner)

SITE DESCRIPTION:

One trench, with 20 ft. x 90 ft. bottom surface.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

In 7/54 the site received flush water from the 291-S stack. The site was retired the same month when the flush of the 291-S-1 stack was complete.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176, HW-33305
Photographs: 122440-256-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74444

SITE ID NO.: 216-S-12

CHEMICALS DISPOSED

NITRATE:	0 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	600 kg
TOTAL VOLUME DISPOSED:	68100 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00157	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.45000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.05710
ZR-95:	0.00000	PU-240:	0.01540
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00167
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1.80000
CS-137:	0.47300	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-13

ALIAS: 276-S-Crib, 216-S-6

STATUS: Inactive

DIMENSIONS:

Length: 40 ft

Width: 40 ft

Depth: 34 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 676 ft

WATERTABLE: 202 ft

HRS Migration Score: 1.452

LOCATION: 200 West

COORDINATES: N34610/W74625 (Center of crib)

SITE DESCRIPTION:

Crib--a 12 ft. x 12 ft. x 9 ft., wooden structure (approximately 1200 ft. of 6 in. x 8 in. lumber) enclosed on four sides with 1 in. sheathing and open on the bottom. The crib top is approximately 20 ft. below grade. Bottom dimensions are 40 ft. x 40 ft., 34 ft. below grade. The sideslope is 1:1.

SERVICE DATES: 1952-1972

SERVICE HISTORY:

From 1/52 to 6/67 the site received liquid waste from the 203-S decontaminated metal storage facility, the 204-S UNH lag storage facility and the 276-S organic-solvent make-up facility. From 6/67 to 7/72 the site received occasional sump waste from the 204-S facility. The site was retired in 7/72. The waste is low salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-247-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74444

SITE ID NO.: 216-S-13

CHEMICALS DISPOSED

NITRATE:	10000 kg
METHYL ISOBUTYL KEYTONE:	10000 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	1000 kg
SODIUM DICHROMATE:	10000 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
TOTAL VOLUME DISPOSED:	5000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00629	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.02240	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.45700
ZR-95:	0.00000	PU-240:	0.12300
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00003	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.03050
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	6.09000
CS-137:	3.02000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-14

ALIAS: Cold Organic Trench

STATUS: Inactive

DIMENSIONS:

Length: 100 ft

Width: 8 ft

Depth: 6 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 670 ft

WATERTABLE: 204 ft

HRS Migration Score: 1.035

LOCATION: 200 West

COORDINATES: N33100/W73700 (Center of trench)

SITE DESCRIPTION:

One trench, with dimensions of 100 ft. x 8 ft.

SERVICE DATES: 1951-1952

SERVICE HISTORY:

From 12/51 to 1/52 the site received the contaminated hexone from the initial test runs in the 202-S building. The site was retired in 1/52 when discharge of hexone to the trench was completed.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-52-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 216-S-14

CHEMICALS DISPOSED

NITRATE:	0 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-15

ALIAS: 241-S-110 Pond, 216-S-2, 110-S Tank Overflow

STATUS: Inactive

FACILITY: Pond

DIMENSIONS:

ELEVATION: 667 ft

Length: 35 ft

WATERTABLE: 187 ft

Width: 5 ft

HRS Migration Score: 1.035

Depth: 5 ft

Diameter: 0 ft

LOCATION: 200 West

COORDINATES: N36066/W75450 (Center of pond)

SITE DESCRIPTION:

One pond, with dimensions of 5 ft. x 35 ft.

SERVICE DATES: 1951-1952

SERVICE HISTORY:

From 12/51 to 10/52 the site received condenser spray cooling water from 110-S tank in the 241-S Tank Farm. The site was removed from service in 10/52 when condensed radioactive tank vapors were mixed with the normal waste discharged to this pond. The waste is low salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-242-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74443

SITE ID NO.: 216-S-15

CHEMICALS DISPOSED

NITRATE:	1 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
TOTAL VOLUME DISPOSED:	10000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

. Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-16P

ALIAS: 202-S Swamp

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 3 ft

Diameter: 1250 f

FACILITY: Pond

ELEVATION: 651 ft

WATERTABLE: 180 ft

HRS Migration Score: 32.718

LOCATION: 200 West

COORDINATES: N32250/W81600 (Center of pond complex)

SITE DESCRIPTION:

The original pond consisted of four smaller ponds separated by dikes and a leach trench 10 ft. deep and 1100 ft. long extending east from pond #2. The #4 pond was never used. The total area used was approximately 31 acres. In 1975 this area was leveled and backfilled. A number of test plots were sealed with asphalt and a root toxin.

SERVICE DATES: 1957-1975

SERVICE HISTORY:

From 1/57 to 6/67 the site received process cooling water and steam condensate from the 202-S building. From 6/67 to 7/67 production operations were shutdown and 202-S put on standby. From 7/67 to 2/75 the site received condenser and vessel cooling water from concentrator boil-down operations in the 202-S building. The site was retired in 2/75, and has been stabilized.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-38-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-72904

SITE ID NO.: 216-S-16P

CHEMICALS DISPOSED

NITRATE:	1600 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg

TOTAL VOLUME DISPOSED: 40700000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.20000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.53900	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	49.50000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	21.00000
ZR-95:	0.00000	PU-240:	5.67000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00006	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	1.06000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	162.00000
CS-137:	32.60000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-16D

ALIAS: 802-S Ditch

STATUS: Inactive

DIMENSIONS:

Length: 3000 ft

Width: 4 ft

Depth: 3 ft

Diameter: 0 ft

FACILITY: Ditch

ELEVATION: 651 ft

WATERTABLE: 180 ft

HRS Migration Score: 47.819

LOCATION: 200 West

COORDINATES: N32250/W80900 (West End), N33200/W79400 (East End)

SITE DESCRIPTION:

One ditch, 3,000 ft. x 4 ft. x 3 ft., backfilled over. Sideslope is 2:1.

SERVICE DATES: 1957-1975

SERVICE HISTORY:

From 1/57 to 6/67 the site received process cooling water and steam condensate from 202-S building (note: 1/57 is believed to be the most accurate start date). From 6/67 to 7/67 production operations were shut down and the 202-S building was put on standby. From 7/67 to 2/75 the site received condenser and vessel cooling water from concentrator boil-down operations in the 202-S building. The site was retired in 2/75, and has been stabilized.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-38-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-72904

SITE ID NO.: 216-S-16D

CHEMICALS DISPOSED

NITRATE:	10 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg

TOTAL VOLUME DISPOSED: 400000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-17

ALIAS: 202-S Swamp, 202-S REDOX Pond #1

STATUS: Inactive

DIMENSIONS:

Length: 958 ft

Width: 958 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Pond

ELEVATION: 651 ft

WATERTABLE: 180 ft

HRS Migration Score: 47.819

LOCATION: 200 West

COORDINATES: N32000/W78000 (Center of pond)

SITE DESCRIPTION:

One pond, covering 21 acres.

SERVICE DATES: 1951-1954

SERVICE HISTORY:

From 10/51 to 1/53 the site received the process cooling water and steam condensate from the 202-S building. From 1/53 to 4/54 the site received the 202-S effluent and the overflow from 216-U-10 Pond via the 216-U-9 Ditch. The site was retired in 4/54 when the radionuclide inventory in the sediments exceeded prescribed limits. It has since been stabilized.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-40-CN, 122440-41-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74444, H-2-72904

SITE ID NO.: 216-S-17

CHEMICALS DISPOSED

NITRATE:	140 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg

TOTAL VOLUME DISPOSED: 6430000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.06000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	17.50000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.17100
ZR-95:	0.00000	PU-240:	0.04620
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.04560
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	61.50000
CS-137:	13.80000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-18

ALIAS: 241-SX Steam Cleaning Pit, 216-S-14 Pit

STATUS: Inactive

DIMENSIONS:

Length: 125 ft

Width: 15 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 674 ft

WATERTABLE: 198 ft

HRS Migration Score: 0.000

LOCATION: 200 West

COORDINATES: N35750/W74910 (Center of pit)

SITE DESCRIPTION:

Formerly, one trench, with a bottom surface area of 125 ft. x 15 ft.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

In 10/54 the site received vehicle decontamination waste. The site was retired the same month when vehicle decontamination was complete. The site was released from radiation zone status in 10/72.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-241-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 216-S-18

CHEMICALS DISPOSED

NITRATE:	0 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-20

ALIAS: 216-SL-1 & 2 Crib, 216-SL-2

STATUS: Inactive

DIMENSIONS:

Length: 90 ft

Width: 40 ft

Depth: 30 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 679 ft

WATERTABLE: 208 ft

HRS Migration Score: 50.336

LOCATION: 200 West

COORDINATES: N34296/W73312 (Center of crib)

SITE DESCRIPTION:

Crib, containing two 12 ft. x 12 ft. x 9 ft. wooden structures 50 ft. apart, with the top of each approximately 17 ft. below grade. The bottom surface of the crib is 40 ft. x 90 ft., 30 ft. below grade, with a slope of 1:1. The bottom of each wooden structure is suspended in gravel fill 4 ft. above the bottom of the crib.

SERVICE DATES: 1952-1973

SERVICE HISTORY:

From 1/52 to 7/53 the site received miscellaneous waste from lab hoods and decontamination sinks in the 222-S building via the 219-S Retention Building. From 7/53 to 9/63 the site received the above effluent via the 207-SL Retention Basin and 219-S Retention Building and 300 Area lab waste via the manhole. From 9/63 to 1/69 the site received miscellaneous waste from lab hoods and decontamination sinks in 222-S via 219-S Retention building. Rerouted the 300 Area lab wastes to the 216-T-28 Crib. From 1/69 to 11/72 the site was inactive--ground caving in above the crib. Valved out the pipelines to the crib in 219-S and at the 207-SL Retention Basin and rerouted the 222-S effluents to 202-S building concentrators for boildown and discharge to U.G.S. From 11/72 to 5/73 the ground was filled in. The site received miscellaneous wastes from lab hoods and decontamination sinks in 222-S via the 219-S Retention Building. The site was retired.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-253-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74444

SITE ID NO.: 216-S-20

CHEMICALS DISPOSED

NITRATE:	20000 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
TOTAL VOLUME DISPOSED:	135000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.05610	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	24.80000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	9.76000
ZR-95:	0.00000	PU-240:	2.63000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.01260
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	171.00000
CS-137:	61.50000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-21

ALIAS: 216-SX-1, 216-SX-1 Cavern

STATUS: Inactive

DIMENSIONS:

Length: 50 ft

Width: 50 ft

Depth: 21 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 661 ft

WATERTABLE: 180 ft

HRS Migration Score: 47.819

LOCATION: 200 West

COORDINATES: N35920/W76400 (Center of crib)

SITE DESCRIPTION:

Crib, with one 16 ft. x 15 ft. x 9 ft.-10 in. wooden structure, 8.25 ft. below grade. The bottom surface of the crib is 50 ft. x 50 ft., 21 ft. below grade, with a sideslope of 1:1. The fill lines are approximately 9 ft. below grade--one from the 401-SX condenser and one that was capped to the north of the crib at N35970. The bottom of the wooden structure is 4 ft. above the bottom of the crib, suspended in gravel fill.

SERVICE DATES: 1954-1969

SERVICE HISTORY:

From 11/54 to 2/69 the site received 241-SX condensate--from the condensers in the 401-SX condenser facility via the 206-SX tank in the 241-SX Tank Farm. The site was retired in 2/69. The waste is low salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-179-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74443

SITE ID NO.: 216-S-21

CHEMICALS DISPOSED

NITRATE:	0 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	130 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	800 kg
TOTAL VOLUME DISPOSED:	87100000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.03330	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	23.90000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.11900
ZR-95:	0.00000	PU-240:	0.03200
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00002	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00140
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	226.00000
CS-137:	93.20000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-22

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 100 ft

Width: 3.5 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 681 ft

WATERTABLE: 209 ft

HRS Migration Score: 1.035

LOCATION: 200 West

COORDINATES: N34533/W73183, N34533/W73080 (Center line of crib)

SITE DESCRIPTION:

One gravel crib, with bottom dimensions of 100 ft. x 3.5 ft. The sideslope is 1:1.5. A 4 in. V.C. pipe enters the crib 7 ft. below grade, branches out at right angles downward to the bottom, and runs along the bottom the length of the crib. The pipe has open joints along the entire section along the bottom.

SERVICE DATES: 1957-1966

SERVICE HISTORY:

From 10/57 to 1966/67 the site received liquid waste from acid recovery facility in the 293-S building. The site was retired in 1966/67 when production operations were shut down at REDOX. The inlet piping to the 293-S building was blanked.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-255-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74444

SITE ID NO.: 216-S-22

CHEMICALS DISPOSED

NITRATE:	7000 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	3000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
TOTAL VOLUME DISPOSED:	98400 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00304	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.49900	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00576
ZR-95:	0.00000	PU-240:	0.00155
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00002
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	2.00000
CS-137:	0.52200	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-S-23

ALIAS: None
STATUS: Inactive
DIMENSIONS:
Length: 360 ft
Width: 10 ft
Depth: 27 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 683 ft
WATERTABLE: 202 ft
HRS Migration Score: 1.035

LOCATION: 200 West
COORDINATES: N36669/W74709, N37020/W74790 (Center line of crib)

SITE DESCRIPTION:

One crib, gravel filled, with bottom dimensions of 360 ft. x 10 ft. The sideslope is 1:1. There is approximately 4,320 cu. ft. of gravel fill placed 2 ft. above the bottom. A 6 in. I.D. perforated pipe runs the length of the crib, 1 ft. above the bottom.

SERVICE DATES: 1969-1972

SERVICE HISTORY:

From 1/69 to 7/72 the site received Redox process condensate from D-2 receiver tank in the 202-S building. The site was retired in 7/72. The waste is low salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176
Photographs: 122440-244-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74443

SITE ID NO.: 216-S-23

CHEMICALS DISPOSED

NITRATE:	0 kg
METHYL ISOBUTYL KEYTONE:	0 kg
ALUMINUM NITRATE:	0 kg
SODIUM NITRATE:	0 kg
NITRIC ACID:	300 kg
FERROUS SULFAMATE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
TOTAL VOLUME DISPOSED:	34000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.20700	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1.25000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.05670
ZR-95:	0.00000	PU-240:	0.01530
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00047	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00013
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	9.99000
CS-137:	3.79000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-2

ALIAS: 222-T-110 Dry Well

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 75 ft

Diameter: .5 ft

FACILITY: Reverse Well

ELEVATION: 718 ft

WATERTABLE: 256 ft

HRS Migration Score: 50.336

LOCATION: 200 West

COORDINATES: N43682/W73173 (Center of well)

SITE DESCRIPTION:

A reverse well with a 6 in. diameter pipe extending vertically 75 ft. below grade. The last 20 ft. is perforated with twelve .5 in. holes per foot.

SERVICE DATES: 1945-1950

SERVICE HISTORY:

From 1/45 to 5/50 the site received decontamination sink waste, and sample slurper waste from the 222-T building. The site was deactivated in 5/50. The waste is acidic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-142-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74438

SITE ID NO.: 216-T-2

CHEMICALS DISPOSED

NITRATE:	0 kg
SULFURIC ACID:	10000 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	6000 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	200 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	6000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-3

ALIAS: 241-T-361-A Dry Well

STATUS: Inactive

DIMENSIONS:

Length: 0 ft
Width: 0 ft
Depth: 206 ft
Diameter: .75 ft

FACILITY: Reverse Well

ELEVATION: 707 ft

WATERTABLE: 249 ft

HRS Migration Score: 60.403

LOCATION: 200 West

COORDINATES: N43335/W74250 (Center of well)

SITE DESCRIPTION:

A reverse well, composed of various sizes of vertical steel piping in sections, with a total length of 206 ft: 12 in. pipe 100 ft. - 3 in. long placed below grade, 10 in. piping placed inside 12 in. extending to 175 ft. perforated from 104.5 ft. to 171.5 ft., 8 in. pipe placed inside 10 in. pipe at 172.5 ft., extending to 206 ft., perforated from 172.6 ft. to 204 ft.

SERVICE DATES: 1945-1946

SERVICE HISTORY:

From 6/45 to 8/46 the site received cell drainage from tank 5-6 in 221-T building. It also received 224-T building waste as overflow from 241-T-361 settling tank. The site was deactivated in 8/46. The waste is low salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-130-CN, 122440-257-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74439

SITE ID NO.: 216-T-3

CHEMICALS DISPOSED

NITRATE:	290000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	60000 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	250000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	4000 kg
SODIUM OXALATE:	9000 kg
FLUORIDE:	40000 kg
SULFATE:	2400 kg
PHOSPHATE:	21000 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	11300000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	20.40000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	191.00000 = 312
ZR-95:	0.00000	PU-240:	51.60000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	85.70000
CS-137:	23.20000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-4-1 (D)

ALIAS: 216-T-4 Swamp

STATUS: Inactive

DIMENSIONS:

Length: 850 ft

Width: 8 ft

Depth: 4 ft

Diameter: 942 ft

FACILITY: Ditch

ELEVATION: 671 ft

WATERTABLE: 220 ft

HRS Migration Score: 0.000

LOCATION: 200 West

COORDINATES: N44000/W75640, N45625/W76000 (Center line of ditch)

SITE DESCRIPTION:

A ditch, 850 ft. long; it is 8 ft. wide at the bottom and is a minimum of 4 ft. deep.

SERVICE DATES: 1944-1972

SERVICE HISTORY:

From 11/44 to 9/51 the site received process cooling water from 221-T and 224-T buildings via the 207-T Retention Basin, and steam condensate from 221-T building. From 9/51 to 7/55 the site received the above plus condenser cooling water and steam condensate from 242-T evaporator. From 7/55 to 8/56 the site received the same as 11/44 to 9/51. From 8/56 to 6/57 the site received steam condensate from 221-T building. From 6/57 to 7/64 the site was on standby. From 7/64 to 12/65 the site received decontamination waste from 2706-T. From 12/65 to 11/70 the site received the above plus condenser cooling water from 242-T building. From 11/70 to 5/72 the site received condenser cooling water from 242-T. In 5/72 the site was retired; the ditch was backfilled.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-122-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-36849

SITE ID NO.: 216-T-4-1(D)

CHEMICALS DISPOSED

NITRATE:	0 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site had been exhumed, therefore no radioactivity is present.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-4A

ALIAS: 216-T-4 Swamp, 216-T-4-1(P)

STATUS: Exhumed

DIMENSIONS:

Length: 1800 ft
Width: 600 ft
Depth: 4 ft
Diameter: 0 ft

FACILITY: Pond

ELEVATION: 670 ft

WATERTABLE: 230 ft

HRS Migration Score: 0.000

LOCATION: 200 West

COORDINATES: N44850/W76950 (SW Corner), N44900/W75925 (SE Corner), N4620
0/W76750 (North end)

SITE DESCRIPTION:

A pond, the water formed an L shaped shallow pond covering approximately 16 acres. The entire surface of the bottom of the pond (to a depth of 6 - 9 inches) was scraped into the 218-W-2A Burial Ground, trench #7, and covered with clean soil.

SERVICE DATES: 1944-1972

SERVICE HISTORY:

From 11/44 to 9/51 the site received process cooling water from 221-T and 224-T buildings via 207-T Retention Basin, and steam condensate from 221-T building. From 9/51 to 7/55 received the above plus condenser cooling water and steam condensate from 242-T evaporator. From 7/55 to 8/56 same as 11/44 to 9/51. From 8/56 to 6/57 received steam condensate from 221-T building. From 6/57 to 7/64 the site was on standby. From 7/64 to 12/65 received decontamination waste from 2706-T building. From 12/65 to 11/70 above plus condenser cooling water from 242-T building. From 11/70 to 5/72 received condenser cooling water from 242-T building.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-120-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-36849

SITE ID NO.: 216-T-4A

CHEMICALS DISPOSED

NITRATE:	0 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg

TOTAL VOLUME DISPOSED: 42500000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site has been exhumed, therefore no radioactivity is present.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-5

ALIAS: 216-T-5 Grave, 216-T-12, 241-T-5 Trench

STATUS: Inactive

DIMENSIONS:

Length: 50 ft

Width: 10 ft

Depth: 12 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 672 ft

WATERTABLE: 201 ft

HRS Migration Score: 1.252

LOCATION: 200 West

COORDINATES: N43550/W76200, N43500/W76200 (Center line of trench)

SITE DESCRIPTION:

The site has one trench which has 50 ft. by 10 ft. bottom dimensions, 500 sq. ft. Assume a 1:1 side slope with a 12 ft. depth to the bottom of the trench.

SERVICE DATES: 1955-1955

SERVICE HISTORY:

From 5/55 to 5/55 the site received the second cycle supernatant waste from the 221-T building via the 112-T tank in the 241-T Tank Farm. The site was retired in 5/55. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-125-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74439

SITE ID NO.: 216-T-5

CHEMICALS DISPOSED

NITRATE:	140000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	8000 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	100000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	20000 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	8000 kg
SULFATE:	9000 kg
PHOSPHATE:	60000 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	2600000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.08990	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.46100	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	10.30000
ZR-95:	0.00000	PU-240:	2.77000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00152
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	66.00000
CS-137:	33.90000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-6

ALIAS: 241-T-361 #1 & #2, 216-T-5, 361-T #1 & #2
STATUS: Inactive
DIMENSIONS: Length: 28 ft
Width: 28 ft
Depth: 25 ft
Diameter: 0 ft
FACILITY: Crib (2)
ELEVATION: 707 ft
WATERTABLE: 247 ft
HRS Migration Score: 2.505

LOCATION: 200 West
COORDINATES: N43315/W74525(Center of crib #2) N43315/W74463(Center of crib #1)

SITE DESCRIPTION:

Two cribs, each is a wooden structure with bottom dimensions of 14 ft. x 14 ft. and a 1:1 sideslope. The liquid release point is 16 ft. below grade. The cribs are located 62 ft. apart. The No. 1 crib overflows into No. 2. Most activity is believed to be in No. 1.

SERVICE DATES: 1946-1951

SERVICE HISTORY:

From 8/46 to 10/46 the site received cell drainage from tank 5-6 in the 221-T building and waste from the 224-T building via the overflow from 241-T-361 Setting Tank. From 10/46 to 6/51 the site received cell drainage from tank 5-6 in the 221-T building. Deactivated the 241-T-361 Setting Tank. Rerouted the 224-T building effluent to the 216-T-32 Crib. The site was retired in 6/51. The waste is low salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121
Photographs: 122440-129-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74439

SITE ID NO.: 216-T-6

CHEMICALS DISPOSED

NITRATE:	180000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	160000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	2600 kg
SODIUM OXALATE:	6000 kg
FLUORIDE:	24000 kg
SULFATE:	1500 kg
PHOSPHATE:	13000 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	45000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.03050	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	136.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	22.30000
ZR-95:	0.00000	PU-240:	6.01000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00760
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	505.00000
CS-137:	120.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-7

ALIAS: 241-T-C Crib and Tile Field

STATUS: Inactive

DIMENSIONS:

Length: 310 ft

Width: 84 ft

Depth: 26 ft

Diameter: 0 ft

FACILITY: Crib and Tile Field

ELEVATION: 670 ft

WATERTABLE: 191 ft

HRS Migration Score: 65.437

LOCATION: 200 West

COORDINATES: N43300/W76000 (Center of crib), N43300/W76000, N43300/W7630
5 (Centerline of T.F.)

SITE DESCRIPTION:

One crib, a wooden structure, 12 ft. x 12 ft. A tile field placed in a 310 ft. x 84 ft. bottom (26,200 sq. ft.). There is 129,336 cu. ft. of backfill gravel. The side slope is 1.5:1. Liquid release point is 20 ft. below grade.

SERVICE DATES: 1948-1955

SERVICE HISTORY:

From 4/48 to 6/51 the site received second cycle supernatant waste from the 221-T building via the 112-T tank in the 241-T Tank Farm. From 6/51 to 6/52 the site received the above building effluent and cell drainage from tank 5-6 in the 221-T building via the 112-T tank in the 241-T Tank Farm. From 6/52 to 11/55 the site received the above building effluents and waste from the 224-T building via the 112-T tank in the 241-T Tank Farm. The site was deactivated in 11/55. The site reached the prescribed radionuclide disposal guide limit of the crib and tile field. Capped the pipeline to the crib. Rerouted the 221-T and 224-T building effluent to the 216-T-19 Crib. The waste is high salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-124-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74439

SITE ID NO.: 216-T-7

CHEMICALS DISPOSED

NITRATE:	2300000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	250000 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	1700000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	140000 kg
SODIUM OXALATE:	40000 kg
FLUORIDE:	170000 kg
SULFATE:	70000 kg
PHOSPHATE:	500000 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	110000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01420	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	26.30000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	7.42000
ZR-95:	0.00000	PU-240:	2.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00304
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	97.00000
CS-137:	23.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-8

ALIAS: 222-T-1 and 2 Crib

STATUS: Inactive

DIMENSIONS:

Length: 28 ft

Width: 28 ft

Depth: 25 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 719 ft

WATERTABLE: 258 ft

HRS Migration Score: 47.819

LOCATION: 200 West

COORDINATES: N43510/W72970, (Center - Crib #1), N43540/W72950 (Center - Crib #2)

SITE DESCRIPTION:

Two cribs, with a 3 in. steel pipe placed vertically into a 12 ft. x 12 ft. x 7 ft. wooden frame (17 ft. below grade). The bottom dimensions are 14 ft. x 14 ft. x 20 ft. deep (with a 1:1 slope) backfilled over.

SERVICE DATES: 1950-1956

SERVICE HISTORY:

From 5/50 to 9/51 the site received the decontamination sink waste and samle slurper waste from the 222-T building. The site was deactivated in 9/51. The waste is neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-139-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74438

SITE ID NO.: 216-T-8

CHEMICALS DISPOSED

NITRATE:	0 kg
SULFURIC ACID:	1000 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	1000 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	10 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	500000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00099	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.41300	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.28500
ZR-95:	0.00000	PU-240:	0.07700
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00150
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1.68000
CS-137:	0.43600	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-9

ALIAS: Decontamination Trenches, Eqpmnt Decontam. Area

STATUS: Exhumed

FACILITY: Trench (1 of 3)

DIMENSIONS:

ELEVATION: 710 ft

Length: 50 ft

WATERTABLE: 249 ft

Width: 10 ft

HRS Migration Score: 0.000

Depth: 6 ft

Diameter: 0 ft

LOCATION: 200 West

COORDINATES: N43850/W73800 (Center line of 216-T-10)

SITE DESCRIPTION:

A trench, with a 50 ft. x 10 ft. bottom surface.

SERVICE DATES: 1951-1954

SERVICE HISTORY:

From 2/51 to 3/54 the site received heavy equipment and vehicle decontamination waste. From 3/54 to 5/72 the site was deactivated. Decontamination operations were transferred to the 216-T-13 site. In 5/72 the site was exhumed and released from Radiation Zone status. No radioactivity or evidence of chemical build'up was found in the site.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-131-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 216-T-9

CHEMICALS DISPOSED

NITRATE:	0 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

No volume data is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-10

ALIAS: Decontam. Trenches(Eqpmnt Decontam. area)

STATUS: Exhumed

FACILITY: Trench (1 of 3)

DIMENSIONS:

ELEVATION: 710 ft

Length: 50 ft

WATERTABLE: 249 ft

Width: 10 ft

HRS Migration Score: 0.000

Depth: 6 ft

Diameter: 0 ft

LOCATION: 200 West

COORDINATES: N43850/W73680(Center line of 216-T-10)

SITE DESCRIPTION:

A trench, with a 50 ft. x 10 ft. bottom surface.

SERVICE DATES: 1951-1954

SERVICE HISTORY:

From 6/51 to 3/54 the site received heavy equipment and vehicle decontamination waste. From 3/54 to 5/72 the site was deactivated. Decontamination operations were transferred to the 216-T-13 site. In 5/72 the site was exhumed and released from radiation zone status.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-131-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 216-T-10

CHEMICALS DISPOSED

NITRATE:	0 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

No volume data is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-11

ALIAS: Equipment Decontamination Trenches
STATUS: Exhumed
DIMENSIONS:
Length: 50 ft
Width: 10 ft
Depth: 6 ft
Diameter: 0 ft

FACILITY: Trench (1 of 3)
ELEVATION: 710 ft
WATERTABLE: 249 ft
HRS Migration Score: 0.000

LOCATION: 200 West
COORDINATES: N43850/W73680 (Center line of 216-T-10)

SITE DESCRIPTION:

A trench, with 50 ft. x 10 ft. bottom dimensions.

SERVICE DATES: 1951-1954

SERVICE HISTORY:

From 6/51 to 3/54 the site received heavy equipment and vehicle decontamination waste. From 3/54 to 5/72 the site was deactivated - decontamination operations were transferred to the 216-T-13 site. In 5/72 the site was exhumed and released from Radiation Zone status. No evidence of radioactivity or chemical buildup was detected in the site.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121
Photographs: 122440-131-CN
Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 216-T-11

CHEMICALS DISPOSED

NITRATE:	0 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

No volume data is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-12

ALIAS: 207-T Sludge Grove of Pit, 216-T-11

STATUS: Inactive

DIMENSIONS:

Length: 15 ft

Width: 10 ft

Depth: 8 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 669 ft

WATERTABLE: 220 ft

HRS Migration Score: 0.980

LOCATION: 200 West

COORDINATES: N43560/W75140 (Center of pit)

SITE DESCRIPTION:

One small trench, dug with a backhoe. The trench has bottom dimensions of 15 ft. x 10 ft. and is 8 ft. deep.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

From 11/54 to 11/54 the site received contaminated sludge from 207-T Retention Basin. In 11/54 the site was deactivated - the removal of sludge was completed. The waste is low salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121, HW-55176

Photographs: 122440-127-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74438

SITE ID NO.: 216-T-12

CHEMICALS DISPOSED

NITRATE:	0 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	50000000 Liters

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.03140	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	2.25000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.05710
ZR-95:	0.00000	PU-240:	0.01540
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.01520
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	13.60000
CS-137:	4.73000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-13

ALIAS: 269-W Regulated Garage Decontam. Pit, 216-T-12
STATUS: Exhumed
DIMENSIONS: Length: 25 ft
Width: 10 ft
Depth: 8 ft
Diameter: 0 ft
FACILITY: Trench
ELEVATION: 670 ft
WATERTABLE: 200 ft
HRS Migration Score: 0.000

LOCATION: 200 West
COORDINATES: N42850/W75840 (Center of trench)

SITE DESCRIPTION:

A trench, with 20 ft. x 20 ft. bottom dimensions and covered with 10 ft. of backfill.

SERVICE DATES: 1954-1972

SERVICE HISTORY:

From 6/54 to 6/64 the site received vehicle decontamination waste. The site was deactivated in 6/64. In 4/72 the site was released from radiation zone status.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121
Photographs: 122440-145-CN
Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 216-T-13

CHEMICALS DISPOSED

NITRATE:	0 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

This site has been exhumed.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site had been exhumed, therefore no radioactivity is present.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-14

ALIAS: 241-T-1 Trench, 216-T-1 Grave, 216-T-13

STATUS: Inactive

DIMENSIONS:

Length: 275 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 692 ft

WATERTABLE: 224 ft

HRS Migration Score: 1.198

LOCATION: 200 West

COORDINATES: N43740/W75250, N43960/W75250 (Center line of trench)

SITE DESCRIPTION:

A trench, with bottom dimensions of 275 ft. x 10 ft. The structure is 10 ft. deep with a slope of 1.5:1.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

From 1/54 to 1/54 the site received the first cycle supernatant waste from the 221-T building via the 104, 105 and 106-T tanks in 241-T Tank Farm. The site was retired in 1/54. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176, HW-43121

Photographs: 122440-128-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-36849, H-2-74439

SITE ID NO.: 216-T-14

CHEMICALS DISPOSED

NITRATE:	80000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	3200 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	60000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	8000 kg
SODIUM ALUMINATE:	8000 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	2500 kg
SULFATE:	4000 kg
PHOSPHATE:	19000 kg
NITRITE:	9000 kg
TOTAL VOLUME DISPOSED:	1000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.80000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.02360	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	2.70000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.05020
ZR-95:	0.00000	PU-240:	0.01350
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.01020
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	431.00000
CS-137:	222.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-15

ALIAS: 241-T-2 Trench, 216-T-2 Grave, 216-T-14

STATUS: Inactive

DIMENSIONS:

Length: 275 ft
Width: 10 ft
Depth: 10 ft
Diameter: 0 ft

FACILITY: Trench

ELEVATION: 692 ft

WATERTABLE: 224 ft

HRS Migration Score: 1.198

LOCATION: 200 West

COORDINATES: N43740/W75165, N43980/W75165 (Center line of trench)

SITE DESCRIPTION:

The site has one trench structure, with a bottom area of 275 ft. x 10 ft., a slope of 1.5:1 and is 10 ft. deep.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

From 1/54 to 2/54 the site received the first cycle supernatant waste from the 221-T building via the 104, 105 and 106-T tanks in the 241-T Tank Farm. The site was retired in 2/54. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121, ARH-947

Photographs: 122440-128-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-36849, H-2-74439

SITE ID NO.: 216-T-15

CHEMICALS DISPOSED

NITRATE:	80000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	3200 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	60000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	8000 kg
SODIUM ALUMINATE:	8000 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	2500 kg
SULFATE:	4000 kg
PHOSPHATE:	19000 kg
NITRITE:	9000 kg
TOTAL VOLUME DISPOSED:	1000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.80000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01880	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	9.45000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.05370
ZR-95:	0.00000	PU-240:	0.01450
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00911
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	958.00000
CS-137:	491.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-16

ALIAS: 241-T-3 Trench, 216-T-15, 216-T-3 Grave

STATUS: Inactive

DIMENSIONS:

Length: 275 ft
Width: 10 ft
Depth: 10 ft
Diameter: 0 ft

FACILITY: Trench

ELEVATION: 692 ft

WATERTABLE: 224 ft

HRS Migration Score: 1.198

LOCATION: 200 West

COORDINATES: N43740/W75075, N43980/W75075 (Center line of trench)

SITE DESCRIPTION:

A trench structure, with bottom dimensions of 275 ft. x 10 ft., is 10 ft. deep and has a slope of 1.5:1.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

From 2/54 to 2/54 the site received the first cycle supernatant waste from the 221-T building via the 104, 105 and 106-T Tanks in the 241-T Tank Farm. The site was retired in 2/54. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121, ARH-947

Photographs: 122440-128-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-36849, H-2-74439

SITE ID NO.: 216-T-16

CHEMICALS DISPOSED

NITRATE:	80000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	3200 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	60000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	8000 kg
SODIUM ALUMINATE:	8000 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	2500 kg
SULFATE:	4000 kg
PHOSPHATE:	19000 kg
NITRITE:	9000 kg
TOTAL VOLUME DISPOSED:	1000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.80000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.02040	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	3.60000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.03720
ZR-95:	0.00000	PU-240:	0.01000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00743
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	481.00000
CS-137:	247.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-17

ALIAS: 241-T-4 Trench, 216-T-4 Grave, 216-T-6

STATUS: Inactive

DIMENSIONS:

Length: 275 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 692 ft

WATERTABLE: 224 ft

HRS Migration Score: 1.198

LOCATION: 200 West

COORDINATES: N43740/W75025, N44015/W75025 (Center line of trench)

SITE DESCRIPTION:

A trench structure, with a 275 ft. x 10 ft. bottom surface. The site is 10 ft. deep, with a slope of 1.5:1.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

From 2/54 to 6/54 the site received the first cycle supernatant waste from the 221-T building via the 104, 105 and 106-T tanks in the 241-T Tank Farm. The site was retired in 6/54. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121, ARH-947

Photographs: 122440-128-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-36849, H-2-74439

SITE ID NO.: 216-T-17

CHEMICALS DISPOSED

NITRATE:	60000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	2500 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	50000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	6000 kg
SODIUM ALUMINATE:	7000 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	2000 kg
SULFATE:	3100 kg
PHOSPHATE:	15000 kg
NITRITE:	7000 kg
TOTAL VOLUME DISPOSED:	785000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.60000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01570	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1.35000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.03030
ZR-95:	0.00000	PU-240:	0.00816
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00680
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	341.00000
CS-137:	177.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-18

ALIAS: 216-T-17, 216-U-10, Test Crib for 222-T TBP Wash
STATUS: Inactive FACILITY: Crib
DIMENSIONS: ELEVATION: 672 ft
Length: 30 ft WATERTABLE: 200 ft
Width: 30 ft HRS Migration Score: 1.597
Depth: 15 ft
Diameter: 0 ft

LOCATION: 200 West
COORDINATES: N42647/W75274 (Center of crib)

SITE DESCRIPTION:

A crib, with a 14 in. SCH 40 steel inlet pipe reducing to a 10 in SCH 40 steel pipe (8 ft. below grade). This pipe branches to four 8 in. SCH 10 steel pipes, each one extending to a 4 ft. long 4 ft. diameter concrete open end sewer pipe. These structures sit in an excavation with bottom dimensions 30 ft. x 30 ft. x 15 ft. high with a sideslope of 1:1.5. There is approximately 8 ft. of gravel (14,112 cu. ft.) covered by 7 ft. of earth backfill.

SERVICE DATES: 1953-1953

SERVICE HISTORY:

From 12/53 to 12/53 the site received the first cycle scavenged waste from the 221-T building. The site was retired in 12/53. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176, ARH-947
Photographs: 122440-146-CN
Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 216-T-18

CHEMICALS DISPOSED

NITRATE:	80000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	3200 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	60000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	8000 kg
SODIUM ALUMINATE:	8000 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	2500 kg
SULFATE:	4000 kg
PHOSPHATE:	19000 kg
NITRITE:	9000 kg
TOTAL VOLUME DISPOSED:	1000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.80000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.13700	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	3.08000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	103.00000
ZR-95:	0.00000	PU-240:	27.70000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00911
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	56.80000
CS-137:	26.30000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-19

ALIAS: 241-TX-153 Crib and Tile Field, 241-TX-3, 216-TX-1
STATUS: Inactive FACILITY: Crib and Tile field
DIMENSIONS: ELEVATION: 662 ft
Length: 390 ft WATERTABLE: 189 ft
Width: 85 ft HRS Migration Score: 57.887
Depth: 23 ft
Diameter: 0 ft

LOCATION: 200 West
COORDINATES: N41270/W75608 (Center of crib), N41270/W75608, N40870/W75608
8 (Center of T.F.)

SITE DESCRIPTION:

The site has a crib, a wooden structure 12 ft. x 12 ft., and a tile field, 390 ft. x 85 ft., containing 394 ft. of 8 in. VC Trunk line with ten 6 in. VC laterals branching at 45 degrees, both perforated on bottom, placed approximately 23 ft. below grade. The crib is abandoned--a cave-in occurred between 1956 and 1965. An 8 in. by-pass line was installed.

SERVICE DATES: 1951-1980

SERVICE HISTORY:

From 9/51 to 7/55 the site received the process condensate from the waste evaporator in the 242-T building. From 7/55 to 12/55 the site was inactive: The 242-T building was on standby: the evaporator was shut down. From 12/55 to 8/56 the site received cell drainage from Tank 5-6, second cycle supernatant waste from 221-T, and waste from 224-T building. From 8/56 to 12/65 the site was inactive: T-Plant Production Operations were shutdown. From 1/66 to 4/76 the site received process condensate and steam condensate from waste evaporator in 242-T building. From 4/76 to 7/80 the evaporator was shut down in 1976; only a small amount of cold cell drainage from evaporator building. On 7/24/80 the line was blanked and the site retired. The waste is low salt and basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176, HW-33305
Photographs: 122440-153-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74440

SITE ID NO.: 216-T-19

ALIAS: 241-TX-153 Crib and Tile Field, 241-TX-3, 216-TX-1
STATUS: Inactive FACILITY: Crib and Tile field
DIMENSIONS: ELEVATION: 662 ft
Length: 390 ft WATERTABLE: 189 ft
Width: 85 ft HRS Migration Score: 57.887
Depth: 23 ft
Diameter: 0 ft

LOCATION: 200 West
COORDINATES: N41270/W75608 (Center of crib), N41270/W75608, N40870/W7560
8 (Center of T.F.)

SITE DESCRIPTION:

The site has a crib, a wooden structure 12 ft. x 12 ft., and a tile field, 390 ft. x 85 ft., containing 394 ft. of 8 in. VC Trunk line with ten 6 in. VC laterals branching at 45 degrees, both perforated on bottom, placed approximately 23 ft. below grade. The crib is abandoned--a cave-in occurred between 1956 and 1965. An 8 in. by-pass line was installed.

SERVICE DATES: 1951-1980

SERVICE HISTORY:

From 9/51 to 7/55 the site received the process condensate from the waste evaporator in the 242-T building. From 7/55 to 12/55 the site was inactive: The 242-T building was on standby: the evaporator was shut down. From 12/55 to 8/56 the site received cell drainage from Tank 5-6, second cycle supernatant waste from 221-T, and waste from 224-T building. From 8/56 to 12/65 the site was inactive: T-Plant Production Operations were shutdown. From 1/66 to 4/76 the site received process condensate and steam condensate from waste evaporator in 242-T building. From 4/76 to 7/80 the evaporator was shut down in 1976; only a small amount of cold cell drainage from evaporator building. On 7/24/80 the line was blanked and the site retired. The waste is low salt and basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176, HW-33305
Photographs: 122440-153-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74440

SITE ID NO.: 216-T-20

ALIAS: 155-TX, 216-TX-2

STATUS: Inactive

DIMENSIONS:

Length: 10 ft

Width: 10 ft

Depth: 4 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 690 ft

WATERTABLE: 199 ft

HRS Migration Score: 1.089

LOCATION: 200 West

COORDINATES: N41380/W74720 (Center of pit)

SITE DESCRIPTION:

A pit, with 10 ft. x 10 ft. bottom dimension, the site is backfilled.

SERVICE DATES: 1952-1952

SERVICE HISTORY:

From 11/52 to 11/52 the site received contaminated nitric acid from 241-TX-155 diversion box catch tank. The site was inactivated in 11/52. The waste is acidic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-83718

Photographs: 122440-151-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 216-T-20

CHEMICALS DISPOSED

NITRATE:	15000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	18900 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.42600	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.01670
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1.78000
CS-137:	0.48000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-21

ALIAS: 241-TX-1 Trench, 216-TX-1 Grave, 216-TX-3

STATUS: Inactive

FACILITY: Trench

DIMENSIONS:

Length: 240 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

ELEVATION: 672 ft

WATERTABLE: 195 ft

HRS Migration Score: 1.524

LOCATION: 200 West

COORDINATES: N41530/W76690, N41530/W76450 (Center line of trench)

SITE DESCRIPTION:

A trench, with a 240 ft. x 10 ft. bottom surface.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

From 6/54 to 8/54 the site received the first cycle supernatant waste from the 221-T building via the 109, 110, and 111-TX tanks in the 241-TX Tank Farm. The site was deactivated in 8/54. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-154-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-36849, H-2-74440

SITE ID NO.: 216-T-21

CHEMICALS DISPOSED

NITRATE:	40000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	1500 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	28000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	4000 kg
SODIUM ALUMINATE:	4000 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	1200 kg
SULFATE:	1800 kg
PHOSPHATE:	9000 kg
NITRITE:	4000 kg
TOTAL VOLUME DISPOSED:	460000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.40000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.03140	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	3.60000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.05710
ZR-95:	0.00000	PU-240:	0.01540
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00033
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	3.72000
CS-137:	189.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-22

ALIAS: 241-TX-2 Trench, 216-TX-2 Grave, 216-TX-4

STATUS: Inactive

FACILITY: Trench

DIMENSIONS:

Length: 240 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

ELEVATION: 672 ft

WATERTABLE: 195 ft

HRS Migration Score: 1.670

LOCATION: 200 West

COORDINATES: N41620/W76450, N41620/W76690 (Center line of trench)

SITE DESCRIPTION:

A trench, with a bottom area of 240 ft. x 10 ft.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

From 7/54 to 8/54 the site received the first cycle supernatant waste from the 221-T building via the 109, 110, and 111-TX tanks in the 241-TX Tank Farm. The site was deactivated in 8/54. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-154-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-36849, H-2-74440

SITE ID NO.: 216-T-22

CHEMICALS DISPOSED

NITRATE:	120000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	5000 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	90000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	12000 kg
SODIUM ALUMINATE:	13000 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	4000 kg
SULFATE:	6000 kg
PHOSPHATE:	29000 kg
NITRITE:	14000 kg
TOTAL VOLUME DISPOSED:	1530000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	1.20000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01570	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	23.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.11400
ZR-95:	0.00000	PU-240:	0.03080
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00067
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1730.00000
CS-137:	875.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-23

ALIAS: 241-TX-3 Trench, 241-TX-3 Grave, 216-TX-5

STATUS: Inactive

FACILITY: Trench

DIMENSIONS:

ELEVATION: 672 ft

Length: 240 ft

WATERTABLE: 195 ft

Width: 10 ft

HRS Migration Score: 1.252

Depth: 10 ft

Diameter: 0 ft

LOCATION: 200 West

COORDINATES: N41710/W76450, N41710/W76690 (Center line of trench)

SITE DESCRIPTION:

A trench, with 240 ft. x 10 ft. bottom dimensions.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

From 7/54 to 8/54 the site received the first cycle supernatant waste from the 221-T building via the 109, 110, and 111-TX tanks in the 241-TX Tank Farm. The site was deactivated in 8/54. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-154-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-36849, H-2-74440

SITE ID NO.: 216-T-23

CHEMICALS DISPOSED

NITRATE:	120000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	5000 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	90000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	12000 kg
SODIUM ALUMINATE:	12000 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	4000 kg
SULFATE:	6000 kg
PHOSPHATE:	28000 kg
NITRITE:	14000 kg
TOTAL VOLUME DISPOSED:	1480000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	1.20000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01570	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	18.40000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.05710
ZR-95:	0.00000	PU-240:	0.01540
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00034
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1240.00000
CS-137:	630.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-24

ALIAS: 214-TX-4 Trench, 216-TX-4 Grave, 216-TX-6

STATUS: Inactive

DIMENSIONS:

Length: 240 ft
Width: 10 ft
Depth: 10 ft
Diameter: 0 ft

FACILITY: Trench

ELEVATION: 672 ft

WATERTABLE: 195 ft

HRS Migration Score: 1.670

LOCATION: 200 West

COORDINATES: N41800/W76450, N41800/W76690 (Center line of trench)

SITE DESCRIPTION:

A trench, with 240 ft. x 10 ft. bottom dimensions.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

From 8/54 to 8/54 the site received the first cycle supernatant waste from the 221-T building via the 109, 110 and 110-TX tanks in the 241-TX Tank Farm. The site was deactivated in 8/54. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176, HW-43121

Photographs: 122440-154-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-36849, H-2-74440

SITE ID NO.: 216-T-24

CHEMICALS DISPOSED

NITRATE:	120000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	5000 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	90000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	12000 kg
SODIUM ALUMINATE:	13000 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	4000 kg
SULFATE:	6000 kg
PHOSPHATE:	29000 kg
NITRITE:	14000 kg
TOTAL VOLUME DISPOSED:	1530000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	1.20000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01570	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	18.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.11400
ZR-95:	0.00000	PU-240:	0.03080
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00278
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1330.00000
CS-137:	672.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-25

ALIAS: 241-TX-5

STATUS: Inactive

DIMENSIONS:

Length: 180 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 672 ft

WATERTABLE: 195 ft

HRS Migration Score: 1.887

LOCATION: 200 West

COORDINATES: N41890/W76485, N41890/W76690 (Center line of trench)

SITE DESCRIPTION:

A trench, with 180 ft. x 10 ft. bottom dimensions.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

From 9/54 to 9/54 the site received the first cycle evaporator bottoms from the 242-T building via the 101 and 102-TY tanks in the 241-TY Tank Farm. The site was deactivated in 9/54. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHQ-CD-673, HW-43121

Photographs: 122440-154-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74440

SITE ID NO.: 216-T-25

CHEMICALS DISPOSED

NITRATE:	1200000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	50000 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	900000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	120000 kg
SODIUM ALUMINATE:	130000 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	40000 kg
SULFATE:	60000 kg
PHOSPHATE:	290000 kg
NITRITE:	140000 kg
TOTAL VOLUME DISPOSED:	12000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	2.40000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00157	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1.80000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.05710
ZR-95:	0.00000	PU-240:	0.01540
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00030
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	8080.00000
CS-137:	4220.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-26

ALIAS: 216-TX-1 Cavern, 216-TX-1 Crib

STATUS: Inactive

DIMENSIONS:

Length: 30 ft

Width: 30 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 668 ft

WATERTABLE: 195 ft

HRS Migration Score: 1.815

LOCATION: 200 West

COORDINATES: N42445/W75330 (Center of crib)

SITE DESCRIPTION:

A crib, with a 14 in. SCH 40 steel inlet pipe reducing to a 10 in. SCH steel pipe (9 ft. below grade). This pipe branches to four 8 in. SCH 10 steel pipes, each one extending to a 4 ft. long 4 ft. diameter concrete open end sewer pipe. These structures sit in an excavation with bototm dimensions 30 ft. x 30 ft. x 15 ft. high with a side slope of 1:1.5. There is approximately 8 ft. of gravel (14,112 cu. ft.) covered by 8 ft. of earth backfill.

SERVICE DATES: 1955-1956

SERVICE HISTORY:

From 8/55 to 11/56 the site received the first cycle scavenged TBP supernatant waste from the 221-T building via the 101, 103 and 104-TY tanks in the 241-TY Tank Farm. The site was deactivated in 11/56. The waste is high salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673

Photographs: 122440-147-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74440

SITE ID NO.: 216-T-26

CHEMICALS DISPOSED

NITRATE:	1000000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	40000 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	6000 kg
SODIUM:	700000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	100000 kg
SODIUM ALUMINATE:	100000 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	30000 kg
SULFATE:	50000 kg
PHOSPHATE:	230000 kg
NITRITE:	110000 kg
TOTAL VOLUME DISPOSED:	12000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01890	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	309.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	3.37000
ZR-95:	0.00000	PU-240:	0.90800
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.05030
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	782.00000
CS-137:	82.50000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-27

ALIAS: 216-TX-2 Cavern of Crib

STATUS: Inactive

DIMENSIONS:

Length: 30 ft

Width: 30 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 668 ft

WATERTABLE: 195 ft

HRS Migration Score: 1.724

LOCATION: 200 West

COORDINATES: N42360/W75330 (Center of crib)

SITE DESCRIPTION:

A crib, with a 14 in. SCH 40 steel inlet pipe reducing to a 10 in. SCH steel pipe (8 ft. below grade). This pipe branches to four 8 in. SCH 10 steel pipes, each one extending to a 4 ft. long 4 ft. diameter concrete open end sewer pipe. These structures sit in an excavation with bottom dimensions 30 ft. x 30 ft. x 15 ft. high with a side slope of 1:1.5. There is approximately 8 ft. of gravel (14,112 cu. ft.) covered by 7 ft. of earth backfill.

SERVICE DATES: 1965-1965

SERVICE HISTORY:

From 9/65 to 11/65 the site received 300 Area laboratory waste from the 340 facility. The site was deactivated in 11/65. The waste is low salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673

Photographs: 122440-147-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74440

SITE ID NO.: 216-T-27

CHEMICALS DISPOSED

NITRATE:	1000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	7190000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.06700	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	82.60000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.74200
ZR-95:	0.00000	PU-240:	0.20000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00055	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00243
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	282.00000
CS-137:	60.90000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-28

ALIAS: 216-TX-3 Cavern of Crib

STATUS: Inactive

DIMENSIONS:

Length: 30 ft

Width: 30 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 668 ft

WATERTABLE: 195 ft

HRS Migration Score: 47.819

LOCATION: 200 West

COORDINATES: N42475/W75330 (Center of crib)

SITE DESCRIPTION:

A crib, with a 14 in. SCH 40 steel inlet pipe reducing to a 10 in. SCH steel pipe (8 ft. below grade). This pipe branches to four 8 in. SCH 10 steel pipes, each one extending to a 4 ft. long 4 ft. diameter concrete open end sewer pipe. These structures sit in an excavation with bottom dimensions 30 ft. x 30 ft. x 15 ft. high with a side slope of 1:1.5. There is approximately 8 ft. of gravel (14,112 cu. ft.) covered by 7 ft. of earth backfill.

SERVICE DATES: 1960-1966

SERVICE HISTORY:

From 2/60 to 2/63 received steam cond. decon. waste and misc. effluents from 221-T via the 112-T Tank in the 241-T Tank Farm. From 2/63 to 9/63 received the above and decon. waste from 2706-T building. From 9/63 to 7/64 received the above and 300 Area lab waste from 340. From 7/64 to 5/66 received the steam cond. decon. waste and misc. waste from the 221-T building via the 112-T tank in the 241-T Tank Farm and 300 Area lab waste from 340 facility. Rerouted the decontamination waste from the 2706 building to the 216-T-4 Ditch. From 5/66 to 12/66 received the steam cond. decon. waste and misc. waste from the 221-T via the 112-T tank in the 241-T Tank Farm. Rerouted the 300 Area lab waste from the 340 facility to the 216-T-34 crib.

REFERENCES:

Documents: ARH-2806, RHO-CD-673

Photographs: 122440-147-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74440

SITE ID NO.: 216-T-28

CHEMICALS DISPOSED

NITRATE:	10000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	42300000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.31900	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	116.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	4.00000
ZR-95:	0.00000	PU-240:	1.08000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00026	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.13100
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	667.00000
CS-137:	210.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-29

ALIAS: 291-T Sand Filter Sewer

STATUS: Inactive

DIMENSIONS:

Length: 100 ft

Width: 48 ft

Depth: 13 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 729 ft

WATERTABLE: 260 ft

HRS Migration Score: 1.035

LOCATION: 200 West

COORDINATES: N44130/W72790 (Center of crib)

SITE DESCRIPTION:

A crib structure, consisting of 60 French Drains, 6 in. diameter, 3 ft. 5 in. long, filled with coarse gravel, placed 13 ft. 7 in. below the top of the structure. There is a concrete structure 100 ft. x 48 ft. x 14 ft. 7 in. high which contains concrete blocks arranged in rows to form lateral ducts, with drains spaced throughout, every 10 ft. lengthwise - 8 ft. widthwise, all covered with 9 ft. of sand and gravel, then covered with concrete slabs. There is a 1 ft. layer of gravel on the entire bottom, with a layer of sisalkraft paper underneath which surrounds all the drains throughout the structure.

SERVICE DATES: 1949-1964

SERVICE HISTORY:

From 3/49 to 3/64 the site received the condensate runoff from the 291-T sand filter. The site was deactivated in 3/64. The waste type is potentially acidic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673

Photographs: 122440-137-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 216-T-29

CHEMICALS DISPOSED

NITRATE:	0 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	8000 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	74000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-30

ALIAS: None
STATUS: Inactive
DIMENSIONS:
Length: 160 ft
Width: 90 ft
Depth: 15 ft
Diameter: 0 ft

FACILITY: Unplanned Release
ELEVATION: 718 ft
WATERTABLE: 258 ft
HRS Migration Score: 0.653

LOCATION: 200 West
COORDINATES: N43880/W73200 (Center of site)

SITE DESCRIPTION:

Jumper leak in 241-TX-154 Diversion Box caused 241-TX-302C Catch Tank to overflow. Contaminated liquid spread over area 160 ft. x 90 ft. contamination covered with earth.

SERVICE DATES: 1953-1955

SERVICE HISTORY:

1.9 x 104 liters of waste from 221-T. High salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121
Photographs: 122440-141-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74438

SITE ID NO.: 216-T-30

CHEMICALS DISPOSED

NITRATE:	3 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	19000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00600	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	18.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.13000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	19.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-31

ALIAS: None
STATUS: Exhumed
DIMENSIONS:

Length: 0 ft
Width: 0 ft
Depth: 0 ft
Diameter: 0 ft

FACILITY: French Drain
ELEVATION: 662 ft
WATERTABLE: 192 ft
HRS Migration Score: 0.000

LOCATION: 200 West
COORDINATES: N41660/W75530 (Center of french drain)

SITE DESCRIPTION:

A French Drain, 36 in. diameter.

SERVICE DATES: 1959-1959

SERVICE HISTORY:

From 10/54 to 2/62 the site was accidentally contaminated. Received contaminated steam condensate from a blowout through the steam line during efforts to unplug a waste line in October 1954. In 1959, the contaminated gravel and soil were removed from the site and buried in the 200 West Dry Waste Burial Ground. The site was deactivated and released from radiation zone status in 2/62.

REFERENCES:

Documents: ARH-2806, RHO-CD-673
Photographs:
Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 216-T-31

CHEMICALS DISPOSED

NITRATE:	0 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

This site has been exhumed.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site has been exhumed, therefore no radioactivity is present.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-32

ALIAS: 241-T Cribs #1 and #2, 216-T-6

STATUS: Inactive

DIMENSIONS:

Length: 68 ft

Width: 14 ft

Depth: 26 ft

Diameter: 0 ft

FACILITY: Crib (2)

ELEVATION: 673 ft

WATERTABLE: 204 ft

HRS Migration Score: 1.416

LOCATION: 200 West

COORDINATES: N43397/W76058 (Center of crib #1) N43447/W76000 (Center of
crib #2)

SITE DESCRIPTION:

A crib, with 2 wooden sumps (12 ft. x 12 ft. x 4 ft. deep), 40 ft. apart. The total excavation has a bottom area of 68 ft. x 14 ft. with a slope of 1.5:1.

SERVICE DATES: 1954-1962

SERVICE HISTORY:

From 1/46 to 5/52 the site received waste from the 224-T building via the 201-T tank in the 241-T Tank Farm. The site was deactivated in 5/52. The waste is high salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-33305, HW-9671

Photographs: 122440-124-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74439

SITE ID NO.: 216-T-32

CHEMICALS DISPOSED

NITRATE:	1200000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	1100000 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	16000 kg
SODIUM OXALATE:	40000 kg
FLUORIDE:	160000 kg
SULFATE:	10000 kg
PHOSPHATE:	90000 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	29000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00827	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	11.90000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	183.00000
ZR-95:	0.00000	PU-240:	49.30000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00760
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	44.49000
CS-137:	10.60000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-33

ALIAS: None
STATUS: Inactive
DIMENSIONS:
Length: 30 ft
Width: 5 ft
Depth: 11 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 715 ft
WATERTABLE: 253 ft
HRS Migration Score: 1.035

LOCATION: 200 West
COORDINATES: N44080/W73615 (Center of crib)

SITE DESCRIPTION:

A crib, 30 ft. x 5 ft. bottom with 4 ft. of 3/4 in. x 1.5 in. washed gravel (1656 cu. ft.) slope = 1.5:1. 8 in. VC pipe (perforated), approximately 7 ft. below grade, running length of crib. 2 in. of clean sand above plastic barrier over gravel (125 cu. ft.).

SERVICE DATES: 1963-1963

SERVICE HISTORY:

From 1/63 to 2/63 the site received decontamination waste from 2706-T. The site was deactivated in 2/63. The waste is low salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-83718, ARH-947
Photographs: 122440-132-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74438

SITE ID NO.: 216-T-33

CHEMICALS DISPOSED

NITRATE:	0 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	10 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	1900000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.05150	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.28000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.28500
ZR-95:	0.00000	PU-240:	0.07700
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00152
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1.18000
CS-137:	0.29200	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-34

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 200 ft

Width: 30 ft

Depth: 16 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 703 ft

WATERTABLE: 247 ft

HRS Migration Score: 1.035

LOCATION: 200 West

COORDINATES: N44680/W74298, N44819/W74165 (Center line of crib)

SITE DESCRIPTION:

A crib, with bottom dimensions of 200 ft. x 30 ft., 16 ft. below grade, with a slope of 1.5:1. The dispersal system consists of 420 ft. of perforated 8 in. VCT line in a 15 ft. x 195 ft. rectangular structure, with a 6 in. VCT perforated line extending 50 ft. into crib, all 12.2 ft. below grade (elevation 694.8 ft.) 5 ft. (38,906 cu. ft.) of 3/4 in. x 1.5 in. washed gravel backfilled over.

SERVICE DATES: 1966-1967

SERVICE HISTORY:

From 5/66 to 367 the site received 300 Area Laboratory waste from the 340 facility. The site was deactivated in 3/67. Reached the prescribed radionuclide disposal guide limit of the crib. The waste is low salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, ARH-947

Photographs: 122440-133-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74438

SITE ID NO.: 216-T-34

CHEMICALS DISPOSED

NITRATE:	1000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	17300000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.58500	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	195.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	6.11000
ZR-95:	0.00000	PU-240:	1.65000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00008	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00138
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	739.00000
CS-137:	172.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-35

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 450 ft

Width: 10 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 700 ft

WATERTABLE: 242 ft

HRS Migration Score: 1.379

LOCATION: 200 West

COORDINATES: N44558/W74575, N45015/W74520 (Center line of crib)

SITE DESCRIPTION:

A crib, with bottom dimensions of 450 ft. x 10 ft. 15 ft. below grade with a slope of 2:1. One perforated 6 in. VCT drain distribution line (100 ft. long) and one 6 in. VCT perforated crib waste distribution line (450 ft. long), (parallel), both lines horizontal 9.5 ft. below grade (3.5 ft. above bottom); covered by 5 ft. of 3/4 in. to 3 in. gravel (approximately 40,000 cu. ft.) backfilled over.

SERVICE DATES: 1967-1967

SERVICE HISTORY:

From 3/67 to 1/68 the site received 300 lab wastes from the 340 building. The site was retired in 1/68.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43212

Photographs: 122440-134-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74438

SITE ID NO.: 216-T-35

CHEMICALS DISPOSED

NITRATE:	1000 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	0 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	5710000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.29800	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	12.50000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	3.78000
ZR-95:	0.00000	PU-240:	1.02000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00019	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.01640
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	50.20000
CS-137:	12.70000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-T-36

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 160 ft

Width: 10 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 670 ft

WATERTABLE: 204 ft

HRS Migration Score: 1.379

LOCATION: 200 West

COORDINATES: N43093/W76000, N43093/W76160 (Center line of crib)

SITE DESCRIPTION:

A crib, with bottom dimension of 160 ft. x 10 ft., 15 ft. deep, with a slope of 1:1. The dispersal system consists of one 4 in. VCT perforated pipe, 160 ft. long, lying horizontal 11 ft. below grade (4 ft. above crib bottom), terminating 5 ft. before west end of crib.

SERVICE DATES: 1967-1969

SERVICE HISTORY:

From 5/67 to 2/69 the site received the steam condensate decontamination waste and misc. waste from teh 221-T and 221-U buildings. The site was retired in 2/69. The waste is low salt, neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, ARH-947

Photographs: 122440-123-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 216-T-36

CHEMICALS DISPOSED

NITRATE:	0 kg
SULFURIC ACID:	0 kg
POTASSIUM:	0 kg
SODIUM SILICATE:	0 kg
NITRIC ACID:	0 kg
FERROCYANIDE:	0 kg
SODIUM:	0 kg
SODIUM DICHROMATE:	0 kg
SODIUM HYDROXIDE:	1000 kg
SODIUM ALUMINATE:	0 kg
AMMONIUM NITRATE:	0 kg
SODIUM OXALATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
PHOSPHATE:	0 kg
NITRITE:	0 kg
TOTAL VOLUME DISPOSED:	522000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.04870	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	4.77000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.14200
ZR-95:	0.00000	PU-240:	0.03810
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00007	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00039
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	17.60000
CS-137:	4.13000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-U-1 & 2

ALIAS: 216-UR #1, 216-U-3, 361-WR
STATUS: Inactive
DIMENSIONS:
Length: 78 ft
Width: 28 ft
Depth: 24 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 691 ft
WATERTABLE: 209 ft
HRS Migration Score: 69.920

LOCATION: 200 West
COORDINATES: N37860/W74247 (Center of crib)

SITE DESCRIPTION:

Two cribs, with wooden structures which operate in series, with bottom dimensions of 12 ft x 12 ft each. The sideslope on each is 1:1.

SERVICE DATES: 1951-1967

SERVICE HISTORY:

From 3/52 to 6/57 the site received cell drainage from tank 5-6 in the 221-U building and waste from the 224-U building via the overflow from the 241-U-361 settling tank. From 6/57 to 7/57 the site received waste from the 224-U building via the overflow from the 241-U-361 settling tank and contaminated solvent from the 276-U settling tank solvent storage area. The discharge of 221-U waste was discontinued during the shutdown of Production Operations.

From 7/57 to 5/67 the site received waste from the 224-U building and equipment decontamination and reclamation wastes from CPD Services Operations in the 221-U building canyon. The site was deactivated in 5/67. Liquid waste from the 216-U-16 crib migrated to the north and flushed through the soil column beneath the 216-U-1 & 2 cribs. This action carried uranium contamination into the ground water at that site. Remedial action consisted of pumping out 8 million gallons of ground water which was processed to recover the uranium.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121
Photographs: 122440-232-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74442

SITE ID NO.: 216-U-1 & 2

CHEMICALS DISPOSED

NITRATE:	1200000 kg
NITRIC ACID:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	70000 kg
SULFATE:	100000 kg
SODIUM:	500000 kg
TOTAL VOLUME DISPOSED:	15900000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00157	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	2.31000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	2.43000
ZR-95:	0.00000	PU-240:	0.65600
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00001	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	1.35000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	13.80000
CS-137:	4.75000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-U-3

ALIAS: 216-U-3 French Drain, 216-U-11

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 12 ft

Diameter: 6 ft

FACILITY: French Drain

ELEVATION: 668 ft

WATERTABLE: 190 ft

HRS Migration Score: 47.278

LOCATION: 200 West

COORDINATES: N37620/W75630 (Center of french drain)

SITE DESCRIPTION:

French Drain, 72 in. diameter with a rock-filled bottom. The sideslope is 3:1.

SERVICE DATES: 1954-1955

SERVICE HISTORY:

From 5/54 to 8/55 the site received condensed vapors from the condenser on the 110-U tank in the 241-U Tank Farm. The site has been inactive since 8/55. The tank contents are no longer boiling. The waste is low salt, and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-237-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74442

SITE ID NO.: 216-U-3

CHEMICALS DISPOSED

NITRATE:	9 kg
NITRIC ACID:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
TOTAL VOLUME DISPOSED:	791000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00157	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.04500	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00571
ZR-95:	0.00000	PU-240:	0.00154
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00606
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.99900
CS-137:	0.47300	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-U-4

ALIAS: 22-U-11D Dry Well, 216-U-2, 222-U Dry Well

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 75 ft

Diameter: .5 ft

FACILITY: Reverse Well

ELEVATION: 704 ft

WATERTABLE: 227 ft

HRS Migration Score: 32.718

LOCATION: 200 West

COORDINATES: N38209/W73218 (Center of well)

SITE DESCRIPTION:

Reverse well, 3 in. diameter pipe. The bottom 25 ft. of pipe are perforated with 12 1/2 in. holes/foot. The end of the pipe is nearly closed by flattening.

SERVICE DATES: 1947-1955

SERVICE HISTORY:

From 3/47 to 7/55 the site received decontamination waste from 222-U lab hood sinks. The site was retired in July or August, 1955 when the reverse well plugged. The waste is acidic (Pu and fission products). The waste contains less than 1 Ci beta activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-216-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74443

SITE ID NO.: 216-U-4

CHEMICALS DISPOSED

NITRATE:	400 kg
NITRIC ACID:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
TOTAL VOLUME DISPOSED:	300000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-U-4A

ALIAS: 216-U-4 Dry Well

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 10 ft

Diameter: 4.3 ft

FACILITY: French Drain

ELEVATION: 705 ft

WATERTABLE: 227 ft

HRS Migration Score: 47.819

LOCATION: 200 West

COORDINATES: N38215/W73215 (Center of french drain)

SITE DESCRIPTION:

French drain, made of 51.5 in. I.D. concrete pipe. The minimum length of pipe is 4 ft. with a 5 in. thick removable lid. The top of the french drain is buried approximately 5 ft. below grade.

SERVICE DATES: 1955-1970

SERVICE HISTORY:

From 7/55 to 1/65 the site received decontamination waste from hood sinks in the 222-U building via the overflow line from the 216-U-4 reverse well. From 1/65 to 7/70 the site received PNL Operations decontamination waste from a hood sink in the 222-U building via the overflow line from the 216-U-4 Reverse Well. The site has been inactive since 7/70 when PNL Operations in the 222-U building were shut down. The waste is acidic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-216-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 216-U-4A

CHEMICALS DISPOSED

NITRATE:	900 kg
NITRIC ACID:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	30 kg
SULFATE:	0 kg
SODIUM:	400 kg
TOTAL VOLUME DISPOSED:	545000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.01750	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00051
ZR-95:	0.00000	PU-240:	0.00013
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00297
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.42100
CS-137:	0.20100	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-U-4B

ALIAS: 216-U-4B Dry Well
STATUS: Inactive
DIMENSIONS:
Length: 0 ft
Width: 0 ft
Depth: 10 ft
Diameter: 4.3 ft

FACILITY: French Drain
ELEVATION: 705 ft
WATERTABLE: 230 ft
HRS Migration Score: 45.303

LOCATION: 200 West
COORDINATES: N38248/W73100 (Center of french drain)

SITE DESCRIPTION:

A french drain, made of 36 in. diameter pipe.

SERVICE DATES: 1960-1970

SERVICE HISTORY:

From 1/60 to 1/65 the site received waste from a hot cell and hood in the 222-U building. From 1/65 to 7/70 the site received PNL Operations waste from a hot cell and hood in the 222-U building. The site has been inactive since 9/68. The waste is low salt and neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121
Photographs: 122440-217-CN
Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 216-U-4B

CHEMICALS DISPOSED

NITRATE:	10 kg
NITRIC ACID:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
TOTAL VOLUME DISPOSED:	33000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00181	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00308
ZR-95:	0.00000	PU-240:	0.00083
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.41400
CS-137:	0.21500	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-U-5

ALIAS: 221-U Cold U Trench #2, 216-U-4

STATUS: Inactive

DIMENSIONS:

Length: 40 ft

Width: 35 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 705 ft

WATERTABLE: 235 ft

HRS Migration Score: 1.035

LOCATION: 200 West

COORDINATES: N38975/W72880, N39025/W72925 (Center line of trench)

SITE DESCRIPTION:

Trench, with a bottom surface of 40 ft. x 35 ft.

SERVICE DATES: 1952-1952

SERVICE HISTORY:

From 3/52 to 3/52 the site received the unirradiated uranium waste from the cold start-up run at U-Plant. The site was deactivated in 3/52 when discharge to the trench was complete.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-220-CN, 122440-228-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74443

SITE ID NO.: 216-U-5

CHEMICALS DISPOSED

NITRATE:	200 kg
NITRIC ACID:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
TOTAL VOLUME DISPOSED:	2250000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00060	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.02140	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00285
ZR-95:	0.00000	PU-240:	0.00077
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.12200
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.08680
CS-137:	0.02260	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-U-6

ALIAS: 216-U Cold U Trench #1, 216-U-5

STATUS: Inactive

DIMENSIONS:

Length: 75 ft

Width: 10 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 705 ft

WATERTABLE: 232 ft

HRS Migration Score: 1.035

LOCATION: 200 West

COORDINATES: N39030/W73020, N39085/W73095 (Center line of trench)

SITE DESCRIPTION:

Trench, with bottom dimensions of 75 ft. x 10 ft.

SERVICE DATES: 1952-1952

SERVICE HISTORY:

From 3/52 to 3/52 the site received the unirradiated uranium waste from the cold start-up run at U-Plant. The site was deactivated in 3/52 when discharge to the trench was complete.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-219-CN, 122440-229-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74443

SITE ID NO.: 216-U-6

CHEMICALS DISPOSED

NITRATE:	200 kg
NITRIC ACID:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
TOTAL VOLUME DISPOSED:	2250000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00060	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.02140	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00285
ZR-95:	0.00000	PU-240:	0.00077
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.12200
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.08680
CS-137:	0.02260	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-U-7

ALIAS: 221-U Vessel Blower Pit French Drain, UN-216-W-11
STATUS: Inactive FACILITY: French Drain
DIMENSIONS: ELEVATION: 713 ft
Length: 0 ft WATERTABLE: 230 ft
Width: 0 ft HRS Migration Score: 1.035
Depth: 17 ft
Diameter: 2.5 ft

LOCATION: 200 West
COORDINATES: N38519/W73112 (Center of french drain)

SITE DESCRIPTION:

French Drain, composed of 30 in. diameter concrete pipe in 3 ft. sections, extending to a depth of 17 ft. There is 3.5 ft. of gravel fill in the pipe.

SERVICE DATES: 1952-1957

SERVICE HISTORY:

From 3/52 to 6/57 the site received waste from counting box floor drainage. The site was retired in 6/57 when production operation in the 221-U building was shut down.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121, HW-41535
Photographs: 122440-221-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74443

SITE ID NO.: 216-U-7

CHEMICALS DISPOSED

NITRATE:	70 kg
NITRIC ACID:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
TOTAL VOLUME DISPOSED:	7000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-U-8

ALIAS: 216-WR-1, 2 and 3 Cribs, 216-U-9

STATUS: Inactive

DIMENSIONS:

Length: 160 ft

Width: 50 ft

Depth: 31 ft

Diameter: 0 ft

FACILITY: Cribs (3)

ELEVATION: 692 ft

WATERTABLE: 227 ft

HRS Migration Score: 1.198

LOCATION: 200 West

COORDINATES: N36860/W73100 (Center of crib #2)

SITE DESCRIPTION:

Three wooden cribs in series, each crib structure is 16 ft. x 16 ft. x 10 ft. The bottom surface of the site is 160 ft. x 50 ft. backfilled with 1/2 in. crushed stone to the tops of the wooden structures. There is approximately 73,000 cu. ft. of gravel fill.

SERVICE DATES: 1952-1960

SERVICE HISTORY:

From 6/52 to 3/60 the site received process condensate from 221-U buildings, and the 291-U stack drainage. The site was deactivated in 3/60 when ground settling occurred around the vent risers. The waste is acidic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-222-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74443

SITE ID NO.: 216-U-8

CHEMICALS DISPOSED

NITRATE:	0 kg
NITRIC ACID:	200000 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
TOTAL VOLUME DISPOSED:	378000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00204	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.04720	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	21.80000
ZR-95:	0.00000	PU-240:	5.70000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	8.04000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.76800
CS-137:	0.04960	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-U-9

ALIAS: 216-U-6, U-Swamp-5

STATUS: Inactive

DIMENSIONS:

Length: 3500 ft

Width: 6 ft

Depth: 6 ft

Diameter: 0 ft

FACILITY: Ditch

ELEVATION: 648 ft

WATERTABLE: 182 ft

HRS Migration Score: 0.000

LOCATION: 200 West

COORDINATES: N35810/W78010 (Head), N32590/W78066 (End)

SITE DESCRIPTION:

Ditch, 6 ft. wide and 3,500 ft. long, connecting 216-U-10 Pond with 216-S-17 Pond. The sideslope is 1:2.

SERVICE DATES: 1952-1954

SERVICE HISTORY:

From 12/52 to 4/54 the site received the overflow from the 216-U-10 Pond enroute to the 216-S-17 Pond. In 4/54 the 216-S-17 Pond was deactivated and the bottom area of the ditch backfilled.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-50-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-72904

SITE ID NO.: 216-U-9

CHEMICALS DISPOSED

NITRATE:	0 kg
NITRIC ACID:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

Chemical inventory included in 216-U-10 Pond.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-U-11

ALIAS: U-Swamp Ext. Ditch, 216-U-11(old), 216-U-11(new)
STATUS: Inactive FACILITY: Ditches (2)
DIMENSIONS: ELEVATION: 648 ft
Length: 3440 ft WATERTABLE: 185 ft
Width: 5 ft HRS Migration Score: 37.752
Depth: 7 ft
Diameter: 0 ft

LOCATION: 200 West
COORDINATES: N37450/W78375, N36630/W78670, N36630/W79575, N377760/W78685

SITE DESCRIPTION:

The original trench was 1,880 ft. x 5 ft. (bottom dimensions) and 10 ft. wide at surface level. The new trench is 3,440 ft. x 5 ft. (bottom dimensions) which includes 810 ft. of the old original trench.

SERVICE DATES: 1944-1957

SERVICE HISTORY:

From 11/44 to 8/55 the old trench received the overflow from the 216-U-10 Pond. The old trench was retired in 8/55. From 7/55 to 1957 the new trench received the overflow from the 216-U-10 Pond. The new trench was retired in 1957. The site contains less than .1 Ci beta activity.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121, HW-36554
Photographs: 122440-49-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-72904

SITE ID NO.: 216-U-11

CHEMICALS DISPOSED

NITRATE:	0 kg
NITRIC ACID:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

Chemical inventory included in 216-U-10 Pond.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-U-13

ALIAS: 241-UR Steam Cleaning Pit, 216-U-13 Trench

STATUS: Exhumed

FACILITY: Trenches (2)

DIMENSIONS:

ELEVATION: 664 ft

Length: 200 ft

WATERTABLE: 195 ft

Width: 20 ft

HRS Migration Score: 0.980

Depth: 25 ft

Diameter: 0 ft

LOCATION: 200 West

COORDINATES: N37980/W76020, N38180/W76020 (#1), N37980/W76070, N38180/W76070 (#2)

SITE DESCRIPTION:

Two trenches, each 25 ft. deep, 200 ft. long, and 20 ft. wide at the bottom. Both ends of the trenches were sloped so that automotive equipment could be driven down into them. Both trenches were used as decontamination stations for contaminated equipment.

SERVICE DATES: 1952-1956

SERVICE HISTORY:

From 3/52 to 3/56 the site received drainage from the equipment decontamination processes within the trenches. The site was deactivated in 3/56. The decontamination operations were transferred to the 269-W Decontamination Pit (216-T-13). Contaminated soils in the bottom of the pits were removed and buried in the 200 West Burial Ground.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-172-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74442

SITE ID NO.: 216-U-13

CHEMICALS DISPOSED

NITRATE:	0 kg
NITRIC ACID:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
PARAFFIN HYDROCARBON:	0 kg
PHOSPHATE:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

Traces of detergent and nitric acid disposed.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00179	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.04610	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00571
ZR-95:	0.00000	PU-240:	0.00154
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00012
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.19300
CS-137:	0.04840	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-U-15

ALIAS: 388-U Tank Dumping

STATUS: Inactive

DIMENSIONS:

Length: 20 ft

Width: 20 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 695 ft

WATERTABLE: 221 ft

HRS Migration Score: 1.089

LOCATION: 200 West

COORDINATES: N38270/W73900 (Center of pit)

SITE DESCRIPTION:

An excavated hole, which was immediately backfilled after completing the discharge of waste to the hole. The hole has approximate dimensions of 20 ft. x 20 ft.

SERVICE DATES: 1957-1957

SERVICE HISTORY:

From 5/57 to 5/57 the site received miscellaneous waste that was transferred from the 338-U Tank in the 276-U Solvent Storage Area. The site was retired in 5/57 when the discharge of waste to the hole was completed. The waste consisted of 7000 gallons of interface crud, activated charcoal, and diatomaceous earth.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-230-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 216-U-15

CHEMICALS DISPOSED

NITRATE:	0 kg
NITRIC ACID:	0 kg
TRIBUTYL PHOSPHATE:	13000 kg
PARAFFIN HYDROCARBON:	40000 kg
PHOSPHATE:	0 kg
SULFATE:	0 kg
SODIUM:	0 kg
TOTAL VOLUME DISPOSED:	68100 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00233	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.04840	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00571
ZR-95:	0.00000	PU-240:	0.00154
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00076
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.19800
CS-137:	0.05070	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-Z-1A

ALIAS: 234-5 Tile Field, 216-Z-7

STATUS: Inactive

DIMENSIONS:

Length: 260 ft

Width: 100 ft

Depth: 12 ft

Diameter: 0 ft

FACILITY: Tile Field

ELEVATION: 676 ft

WATERTABLE: 201 ft

HRS Migration Score: 1.089

LOCATION: 200 West

COORDINATES: N39190/W76601 (Center of tile field)

SITE DESCRIPTION:

The tile field consisted of a 260 ft. trunk with 7 pairs of 70 ft. laterals placed in an excavation 115 ft. by 276 ft. with 7 pairs of 70 ft. laterals placed in an excavation 115 ft. by 276 ft. and is 19 ft. deep (avg). The surface dimensions for the tile field are approximately 197 ft. by 361 ft. All tile field piping is 8 inch V.C.P. approximately 197 ft. by 361 ft. All tile field piping is 8 inch V.C.P.

SERVICE DATES: 1949-1959

SERVICE HISTORY:

From 6/49 to 6/52 received lab wastes from 234-5Z via 241-Z Settling Tanks. From 6/52 to 3/59 216-Z-1&2 were bypassed. Above waste went to 216-Z-1A TF. From 3/59 to 5/64 all parts of this site were inactive. From 5/64 to 8/64 216-Z-1A received aqueous waste from 236-Z building. From 8/64 to 5/66 same as above plus 242-Z building waste. From 5/66 to 6/66 216-Z-1&2 received 236-Z building and 242-Z building waste--the dist. pit in 216-Z-1A was moved 100 ft. down the main trunk. From 6/66 to 10/67 216-Z-1&2 were inactive, 216-Z-1A received 236-Z and 242-Z wastes while the discharge point on 216-Z-1A was moved 75 ft. further down the main trunk. From 10/67 to 3/68 216-Z-1&2 were inactive--216-Z-1A TF received the 236-Z and 242-Z building waste. From 3/68 to 4/69 216-Z-1A continued to receive the above wastes, 216-Z-1&2 received uranium wastes from 236-Z building. All parts of the site were retired in 4/69.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-164-CN, 122440-176-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-32528

SITE ID NO.: 216-Z-1A

CHEMICALS DISPOSED

NITRATE:	3000 kg
ALUMINUM FLUORIDE NITRATE:	0 kg
CARBON TETRACHLORIDE:	0 kg
CALCIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
SODIUM:	2000 kg
TRIBUTYL PHOSPHATE:	0 kg
SODIUM HYDROXIDE:	0 kg
ALUMINUM NITRATE:	0 kg
MAGNESIUM NITRATE:	0 kg
FERRIC NITRATE:	0 kg
FLUORIDE:	900 kg
SULFATE:	0 kg
TOTAL VOLUME DISPOSED:	1000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 216-Z-1 (D)

ALIAS: Drain Ditch to U-Swamp, Z Plant Ditch, 216-Z-11
STATUS: Inactive FACILITY: Ditch
DIMENSIONS: ELEVATION: 651 ft
Length: 4150 ft WATERTABLE: 181 ft
Width: 4 ft HRS Migration Score: 45.303
Depth: 4 ft
Diameter: 0 ft

LOCATION: 200 West
COORDINATES: N37050/W76950 (Head), N40829/W76505 (End)

SITE DESCRIPTION:

The site is a 4150 ft. long ditch with a 4 ft. wide bottom and a minimum depth of 2 ft. In July 1949, the upper 1725 ft. (N40830, W76505, to N39330 W76020) was backfilled and replaced by a pipeline. In 1959, 2005 ft. (N39420 W75991 to N37495 W76460) from the pipeline outlet to 665 ft. northeast of 216-U-10 Pond was backfilled after a contamination release from 231-Z building. The last 665 ft. (N37495 W76460, to N37050 W76950) was common to 216-Z-1 and 216-Z-11 ditches.

SERVICE DATES: 1944-1959

SERVICE HISTORY:

From 12/44 to 7/49 the site received process cooling water and steam condensate from the 231-Z building. From 7/49 to 5/53 the site received the above building effluents, the process cooling water and steam condensate from the 234-5 building, and the vacuum pump seal water from the 291-Z building. From 5/58 to 3/59 the site received the process cooling water and steam condensate from the 234-5 building, the vacuum pump seal water from the 291-Z building, and the Hanford Laboratory waste from the 231-Z building. The site was retired in 3/59.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121
Photographs: 122440-171-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-32528

SITE ID NO.: 216-Z-1 (D)

CHEMICALS DISPOSED

NITRATE:	0 kg
ALUMINUM FLUORIDE NITRATE:	0 kg
CARBON TETRACHLORIDE:	0 kg
CALCIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
SODIUM:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
SODIUM HYDROXIDE:	0 kg
ALUMINUM NITRATE:	0 kg
MAGNESIUM NITRATE:	0 kg
FERRIC NITRATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	137.00000
ZR-95:	0.00000	PU-240:	37.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-Z-1 & 2

ALIAS: 234-5 #2 Crib, 216-Z-7
STATUS: Inactive
DIMENSIONS:
Length: 30 ft
Width: 30 ft
Depth: 21 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 676 ft
WATERTABLE: 194 ft
HRS Migration Score: 52.853

LOCATION: 200 West
COORDINATES: N39411/W76601 (Center of Crib)

SITE DESCRIPTION:

This site consists of two wooden box cribs and a tile field. Each wooden box is constructed of 6 in. x 6 in. x 12 ft. long timbers, is 12 ft. square, and stands 14 ft. high with an open bottom. Each box stands in a crib. The 216-Z-2 crib overflowed to the 216-Z-1 crib which then overflowed to the 216-Z-1A tile field.

SERVICE DATES: 1949-1969

SERVICE HISTORY:

From 6/49 to 6/52 received lab wastes from 234-5Z via 241-Z Settling Tanks. From 6/52 to 3/59 216-Z-1&2 were bypassed. Above waste went to 216-Z-1A TF. From 3/59 to 5/64 all parts of this site were inactive. From 5/64 to 8/64 216-Z-1A received aqueous waste from 236-Z building. From 8/64 to 5/66 same as above plus 242-Z building waste. From 5/66 to 6/66 216-Z-1&2 received 236-Z building and 242-Z building waste--the dist. pit in 216-Z-1A was moved 100 ft. down the main trunk. From 6/66 to 10/67 216-Z-1&2 were inactive, 216-Z-1A received 236-Z and 242-Z wastes while the discharge point on 216-Z-1A was moved 75 ft. further down the main trunk. From 10/67 to 3/68 216-Z-1&2 were inactive--216-Z-1A TF received the 236-Z and 242-Z building waste. From 3/68 to 4/69 216-Z-1A continued to receive the above wastes, 216-Z-1&2 received uranium wastes from 236-Z building. All parts of the site were retired in 4/69.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121
Photographs: 122440-164-CN, 122440-165-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-32528, H-2-74441

SITE ID NO.: 216-Z-1 & 2

CHEMICALS DISPOSED

NITRATE:	100000 kg
ALUMINUM FLUORIDE NITRATE:	0 kg
CARBON TETRACHLORIDE:	0 kg
CALCIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
SODIUM:	80000 kg
TRIBUTYL PHOSPHATE:	0 kg
SODIUM HYDROXIDE:	0 kg
ALUMINUM NITRATE:	0 kg
MAGNESIUM NITRATE:	0 kg
FERRIC NITRATE:	0 kg
FLUORIDE:	30000 kg
SULFATE:	0 kg
TOTAL VOLUME DISPOSED:	38900000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.01710	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.15900	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	3680.00000
ZR-95:	0.00000	PU-240:	992.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.02710
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.66400
CS-137:	0.16500	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-Z-3

ALIAS: 216-Z-3 Culvert, 234-5 #3 and #4 Cribs, 216-Z-8
STATUS: Inactive FACILITY: Crib
DIMENSIONS: ELEVATION: 676 ft
Length: 70 ft WATERTABLE: 195 ft
Width: 5 ft HRS Migration Score: 1.307
Depth: 25 ft
Diameter: 0 ft

LOCATION: 200 West
COORDINATES: N39385/W76521 (Center of crib)

SITE DESCRIPTION:

The site is composed of three 4 ft. diameter x 22 ft. long perforated corrugated culverts placed end-to-end in a 5 ft. x 70 ft. x 25 ft. deep excavation (see figures 6 & 7 in the physical file). There is 17 ft. of 2.5-3 in. gravel (1500 cu. yds.) with the culvert placed horizontally 15 ft. above crib bottom. Two layers of asphalt roofing paper (5000 sq. ft. each) cover the gravel. The excavation is backfilled to grade.

SERVICE DATES: 1952-1959

SERVICE HISTORY:

From 6/52 to 3/59 the site received process waste, analytical and development laboratory wastes from the 235-5 building via the 241-Z settling tanks. The site was retired in 3/59. The waste is neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121
Photographs: 122440-166-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-32528, H-2-74441

SITE ID NO.: 216-Z-3

CHEMICALS DISPOSED

NITRATE:	600000 kg
ALUMINUM FLUORIDE NITRATE:	0 kg
CARBON TETRACHLORIDE:	0 kg
CALCIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
SODIUM:	400000 kg
TRIBUTYL PHOSPHATE:	0 kg
SODIUM HYDROXIDE:	0 kg
ALUMINUM NITRATE:	0 kg
MAGNESIUM NITRATE:	0 kg
FERRIC NITRATE:	0 kg
FLUORIDE:	160000 kg
SULFATE:	0 kg
TOTAL VOLUME DISPOSED:	178000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.09700	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	325.00000
ZR-95:	0.00000	PU-240:	87.80000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	16.90000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00002
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	82.10000
CS-137:	0.09720	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-Z-4

ALIAS: 231-W-3 Pit, Sump or Crib, 216-Z-3

STATUS: Inactive

DIMENSIONS:

Length: 10 ft

Width: 10 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 669 ft

WATERTABLE: 192 ft

HRS Migration Score: 1.035

LOCATION: 200 West

COORDINATES: N40875/W76475 (Center of pit)

SITE DESCRIPTION:

A trench, the excavation has a bottom area of 10 ft. x 10 ft. and is 15 ft. deep. This excavation was backfilled after use.

SERVICE DATES: 1945-1945

SERVICE HISTORY:

From 6/45 to 6/45 the site received the process and lab waste from the 231-Z building. The site was retired in 6/45. The waste is neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121, HW-28471

Photographs: 122440-166-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-32528, H-2-74441

SITE ID NO.: 216-Z-4

CHEMICALS DISPOSED

NITRATE:	10 kg
ALUMINUM FLUORIDE NITRATE:	0 kg
CARBON TETRACHLORIDE:	0 kg
CALCIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
SODIUM:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
SODIUM HYDROXIDE:	0 kg
ALUMINUM NITRATE:	0 kg
MAGNESIUM NITRATE:	0 kg
FERRIC NITRATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
TOTAL VOLUME DISPOSED:	11000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.09700	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00285
ZR-95:	0.00000	PU-240:	0.00021
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.42400	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00002
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	2.43000
CS-137:	0.09720	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-Z-5

ALIAS: 231-W-1 and 2 Cribs, 231-W Sumps

STATUS: Inactive

DIMENSIONS:

Length: 80 ft

Width: 14 ft

Depth: 18 ft

Diameter: 0 ft

FACILITY: Cribs (2)

ELEVATION: 671 ft

WATERTABLE: 194 ft

HRS Migration Score: 1.997

LOCATION: 200 West

COORDINATES: N40985/W76600 (Center #1), N40920/W76600 (Center #2)

SITE DESCRIPTION:

Two wooden boxes, 12 ft. x 12 ft. x 4 ft. high, each in a 14 ft. square excavation. Excavations are 18 ft. deep with 1:1 side slopes. Structures are 65 ft. apart. Each box is constructed of approximately 800 linear ft. of 6 in. x 6 in. timbers.

SERVICE DATES: 1945-1947

SERVICE HISTORY:

From 6/45 to 2/47 the site received process waste from the 231-Z building, via the 231-W-151 Sump Tank. The site was retired in 2/47.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-156-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-32528, H-2-74441

SITE ID NO.: 216-Z-5

CHEMICALS DISPOSED

NITRATE:	100000 kg
ALUMINUM FLUORIDE NITRATE:	0 kg
CARBON TETRACHLORIDE:	0 kg
CALCIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
SODIUM:	100000 kg
TRIBUTYL PHOSPHATE:	0 kg
SODIUM HYDROXIDE:	0 kg
ALUMINUM NITRATE:	0 kg
MAGNESIUM NITRATE:	0 kg
FERRIC NITRATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
TOTAL VOLUME DISPOSED:	30000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00260	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	1.83000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	19.40000
ZR-95:	0.00000	PU-240:	5.24000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00002
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	11.20000
CS-137:	3.92000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-Z-6

ALIAS: 231-W-4 Crib, 216-W-4, 231-Z-6

STATUS: Inactive

DIMENSIONS:

Length: 50 ft
Width: 8.5 ft
Depth: 8 ft
Diameter: 0 ft

FACILITY: Crib

ELEVATION: 664 ft

WATERTABLE: 193 ft

HRS Migration Score: 1.035

LOCATION: 200 West

COORDINATES: N40712/W76480, N40753/W76508 (Center line of crib)

SITE DESCRIPTION:

The site is a 50 ft. x 6.5 ft. x 2 ft. high wooden box in an excavation approximately 52 ft. x 8.5 ft. x 8 ft. deep. The box is constructed of timbers of the following dimensions: 500 linear ft. of 2 in. x 12 in., 300 linear ft. of 2 in. x 10 in., 325 ft. of 2 in. x 8 in. and 35 linear ft. of 4 in. x 4 in.

SERVICE DATES: 1945-1945

SERVICE HISTORY:

From 6/45 to 6/45 the site received process waste from the 231-Z building, via the 231-W-151 Sump Tank. The site was retired in 6/45. The waste is neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-161-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-32528, H-2-74441

SITE ID NO.: 216-Z-6

CHEMICALS DISPOSED

NITRATE:	130 kg
ALUMINUM FLUORIDE NITRATE:	0 kg
CARBON TETRACHLORIDE:	0 kg
CALCIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
SODIUM:	50 kg
TRIBUTYL PHOSPHATE:	0 kg
SODIUM HYDROXIDE:	0 kg
ALUMINUM NITRATE:	0 kg
MAGNESIUM NITRATE:	0 kg
FERRIC NITRATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
TOTAL VOLUME DISPOSED:	98000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00048	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.03610	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.28000
ZR-95:	0.00000	PU-240:	0.07700
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00002
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.14600
CS-137:	0.03850	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-Z-7

ALIAS: 231-W Trench, 231-W Crib, 231-Z-6

STATUS: Inactive

DIMENSIONS:

Length: 210 ft

Width: 44 ft

Depth: 5 ft

Diameter: 0 ft

FACILITY: Cribs (2)

ELEVATION: 663 ft

WATERTABLE: 187 ft

HRS Migration Score: 50.336

LOCATION: 200 West

COORDINATES: N40900/W76050, N40900/W76200 (Center line of crib)

SITE DESCRIPTION:

Two wooden structures in parallel 150 ft. x 5 ft. x 2 ft. deep trenches within a 210 ft. x 44 ft. x 5 ft. deep excavation. Each wooden structure is three tiered and constructed of the following: 900 linear ft. of 2 in. x 6 in. planking, 700 linear ft. of 4 in. planking, 300 linear ft. of 2 in. planking, 1,800 linear ft. of 3 in. x 6 in. assemblies (material unknown). A 150 ft. long 3 or 4 in. perforated distribution pipe runs above the second tier. Each of the two trenches is covered by 1,650 sq. ft. of 2 in. planking, then tar paper. The large excavation is backfilled.

SERVICE DATES: 1947-1967

SERVICE HISTORY:

From 2/47 to 5/53 the site received process waste from the 231-Z building, via the 231-W-151 Sump Tank. From 5/53 to 11/65 the site received Hanford Laboratory waste from the 231-Z building, via the 231-W-151 Sump Tank. From 11/65 to 2/67 the site received waste from PNL operations in 231-Z building, and 300 Area laboratory waste from the 340 Facility. The site was retired in 2/67.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121

Photographs: 122440-160-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-32528, H-2-74441

SITE ID NO.: 216-Z-7

CHEMICALS DISPOSED

NITRATE:	20000 kg
ALUMINUM FLUORIDE NITRATE:	0 kg
CARBON TETRACHLORIDE:	0 kg
CALCIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
SODIUM:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
SODIUM HYDROXIDE:	0 kg
ALUMINUM NITRATE:	0 kg
MAGNESIUM NITRATE:	0 kg
FERRIC NITRATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
TOTAL VOLUME DISPOSED:	79900000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.07650	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	223.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	114.00000
ZR-95:	0.00000	PU-240:	30.80000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00150
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	876.00000
CS-137:	224.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-Z-8

ALIAS: 216-Z-8 Crib, 234-5 Recuplex French Drain, 216-Z-9
STATUS: Inactive FACILITY: French Drain
DIMENSIONS: ELEVATION: 668 ft
Length: 0 ft WATERTABLE: 188 ft
Width: 0 ft HRS Migration Score: 1.035
Depth: 17 ft
Diameter: 3 ft

LOCATION: 200 West
COORDINATES: N40000/W76250 (Center of drain)

SITE DESCRIPTION:

Two sections of 3 ft. diameter by 3 ft. high standard clay tile culverts stacked vertically underground. The culverts are filled with and sit on a 5 ft. diameter by 3 ft. deep bed of gravel with a slope of 2.5:1. The culverts have a 4 in. thick concrete top which is 8 ft. below grade.

SERVICE DATES: 1955-1962

SERVICE HISTORY:

This site received neutral-basic recuplex waste via overflow from the silica slurry tank.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121
Photographs: 122440-163-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-32528, H-2-74441

SITE ID NO.: 216-Z-8

CHEMICALS DISPOSED

NITRATE:	0 kg
ALUMINUM FLUORIDE NITRATE:	0 kg
CARBON TETRACHLORIDE:	0 kg
CALCIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
SODIUM:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
SODIUM HYDROXIDE:	1000 kg
ALUMINUM NITRATE:	0 kg
MAGNESIUM NITRATE:	0 kg
FERRIC NITRATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
TOTAL VOLUME DISPOSED:	9590 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	2.76000
ZR-95:	0.00000	PU-240:	0.74500
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-Z-9

ALIAS: 216-Z-9 Cavern, 234-5 Recuplex Cavern, 216-Z-10
STATUS: Inactive FACILITY: Trench
DIMENSIONS: ELEVATION: 660 ft
Length: 60 ft WATERTABLE: 181 ft
Width: 30 ft HRS Migration Score: 2.269
Depth: 21 ft
Diameter: 0 ft

LOCATION: 200 West
COORDINATES: N39830/W75910, N39890/W75910 (Center lint of crib)

SITE DESCRIPTION:

Trench, made of a 60 ft. x 30 ft. x 21 ft. excavation. Two 1.5 in. SST pipes discharged liquid 17 ft. above trench bottom.

SERVICE DATES: 1955-1962

SERVICE HISTORY:

From 7/55 to 6/62 the site received recuplex current acid waste (CAW) and aqueous and organic waste from the 234-5 building. The site was retired in 6/62 (mining operation 1976-78). The waste is aqueous and organic and also low salt, and acidic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-43121, RHO-ST-21, PWM-586, ARH-2915
Photographs: 122440-162-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-32528, H-2-74441

SITE ID NO.: 216-Z-9

CHEMICALS DISPOSED

NITRATE:	500000 kg
ALUMINUM FLUORIDE NITRATE:	210000 kg
CARBON TETRACHLORIDE:	0 kg
CALCIUM NITRATE:	130000 kg
NITRIC ACID:	39000 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
SODIUM:	200000 kg
TRIBUTYL PHOSPHATE:	0 kg
SODIUM HYDROXIDE:	0 kg
ALUMINUM NITRATE:	190000 kg
MAGNESIUM NITRATE:	180000 kg
FERRIC NITRATE:	40000 kg
FLUORIDE:	0 kg
SULFATE:	10000 kg
TOTAL VOLUME DISPOSED:	4090000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00395	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.05350	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	2190.00000
ZR-95:	0.00000	PU-240:	590.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00002
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.21800
CS-137:	0.05560	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-Z-10

ALIAS: 231-W-150 Dry Well, 231-W Reverse Well, 216-Z-2
STATUS: Inactive FACILITY: Reverse Well
DIMENSIONS: ELEVATION: 670 ft
Length: 0 ft WATERTABLE: 193 ft
Width: 0 ft HRS Migration Score: 47.819
Depth: 150 ft
Diameter: .5 ft

LOCATION: 200 West
COORDINATES: N40804/W76535 (Center of well)

SITE DESCRIPTION:

A 150 ft. deep reverse well made of 6 in. diameter SCH 40 steel pipe. The well extends approximately 1 ft. above grade to a blind flange.

SERVICE DATES: 1945-1945

SERVICE HISTORY:

From 2/45 to 6/45 the site received process and laboratory wastes from the 231-Z building via the 241-W-151 Sump Tank. The waste is neutral/basic.

REFERENCES:

Documents: HW-9671
Photographs: 122440-157-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-32528, H-2-74441

SITE ID NO.: 216-Z-10

CHEMICALS DISPOSED

NITRATE:	100 kg
ALUMINUM FLUORIDE NITRATE:	0 kg
CARBON TETRACHLORIDE:	0 kg
CALCIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
SODIUM:	30 kg
TRIBUTYL PHOSPHATE:	0 kg
SODIUM HYDROXIDE:	0 kg
ALUMINUM NITRATE:	0 kg
MAGNESIUM NITRATE:	0 kg
FERRIC NITRATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
TOTAL VOLUME DISPOSED:	1000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	2.85000
ZR-95:	0.00000	PU-240:	0.77000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-Z-11

ALIAS: 216-Z-1 Ditch, Z Plant Ditch

STATUS: Inactive

DIMENSIONS:

Length: 2615 ft

Width: 4 ft

Depth: 2 ft

Diameter: 0 ft

FACILITY: Ditch

ELEVATION: 651 ft

WATERTABLE: 181 ft

HRS Migration Score: 45.303

LOCATION: 200 West

COORDINATES: N39420/W75991 (Head), N37050/W76950 (End)

SITE DESCRIPTION:

This site is a 2,615 ft. long ditch with a 4 ft. wide bottom and a minimum depth of 2 ft. The ditch was backfilled in 1971. The southernmost 665 ft. (N37485 W76460, to N37050 W76950) was part of the previously used 216-Z-1 Ditch. The first 120 ft. of the ditch (starting at N39420 W75991) is common with 216-Z-1 and 216-Z-19. For a short time in 1971, 216-Z-19 Ditch flowed through a 900 ft. section of 216-Z-11 (N37720 W76400, to N37050 W76950) which includes the 665 ft. section mentioned above.

SERVICE DATES: 1949-1971

SERVICE HISTORY:

From 3/59 to 11/65 the site received process cooling water and steam condensate from the 234-5 building, the cooling and seal water from the 291-Z building, and Hanford Laboratory waste from 231-Z building. From 11/65 to 5/71 the site received the process cooling water and steam condensate from the 234-5 building, the cooling seal water from the 291-Z building, and the cooling water from PNL Operations in the 231-Z building. The site was retired in 5/71 and backfilled to grade with clean soil.

REFERENCES:

Documents: RHO-CD-673, HW-55176

Photographs: 122440-171-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-32528

SITE ID NO.: 216-Z-11

CHEMICALS DISPOSED

NITRATE:	0 kg
ALUMINUM FLUORIDE NITRATE:	0 kg
CARBON TETRACHLORIDE:	0 kg
CALCIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
SODIUM:	0 kg.
TRIBUTYL PHOSPHATE:	0 kg
SODIUM HYDROXIDE:	0 kg
ALUMINUM NITRATE:	0 kg
MAGNESIUM NITRATE:	0 kg
FERRIC NITRATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
TOTAL VOLUME DISPOSED:	0 Liters

Chemical inventory included in 216-U-10 pond.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	137.00000
ZR-95:	0.00000	PU-240:	37.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-Z-12

ALIAS: 241-Z-12

STATUS: Inactive

DIMENSIONS:

Length: 300 ft

Width: 20 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 680 ft

WATERTABLE: 199 ft

HRS Migration Score: 1.361

LOCATION: 200 West

COORDINATES: N41113/W76892, N41113/W77072 (Center line of crib)

SITE DESCRIPTION:

A 300 ft. x 20 ft. x 20 ft. deep excavation with 5 ft. of gravel (11,250 cu. ft.) in the bottom and backfilled to grade. A 12 in. diameter, perforated, V.C. pipe runs the length of the crib, 4 ft. above crib bottom. In July 1968, a 6 in. diameter SCH 10 pipe was run parallel to and 30 ft. west of the above line. The new line bypasses 100 ft. of the original line. The original line is plugged upstream from the junction of the two lines.

SERVICE DATES: 1959-1973

SERVICE HISTORY:

From 3/59 to 5/73 the site received process waste, analytical and development lab waste from the 234-5 building via the 241-Z-361 Settling Tank. The site was retired in 5/73. The waste is slightly acidic, low-salt waste was adjusted to a pH of 8-10 before disposal.

REFERENCES:

Documents: ARH-2806, RHO-CD-673, HW-55176

Photographs: 122440-168-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-32528, H-2-74441

SITE ID NO.: 216-Z-12

CHEMICALS DISPOSED

NITRATE:	900000 kg
ALUMINUM FLUORIDE NITRATE:	0 kg
CARBON TETRACHLORIDE:	0 kg
CALCIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
SODIUM:	600000 kg
TRIBUTYL PHOSPHATE:	0 kg
SODIUM HYDROXIDE:	0 kg
ALUMINUM NITRATE:	0 kg
MAGNESIUM NITRATE:	0 kg
FERRIC NITRATE:	0 kg
FLUORIDE:	300000 kg
SULFATE:	0 kg
TOTAL VOLUME DISPOSED:	281000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00515	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.05620	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	1430.00000
ZR-95:	0.00000	PU-240:	386.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00002
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.23400
CS-137:	0.05820	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-Z-16

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 180 ft

Width: 10 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION: 673 ft

WATERTABLE: 197 ft

HRS Migration Score: 0.980

LOCATION: 200 West

COORDINATES: N41113/W76892, N41113/W77072 (Center line of crib)

SITE DESCRIPTION:

An excavation 180 ft. x 10 ft. x 15 ft. deep with 5 ft. of gravel (500 cu. yd.) in the bottom. A 4 in. diameter PVC pipe with a 5/16 in. hole every 3 ft. runs down the crib center, 4 ft. above the bottom. Over the gravel is a membrane barrier (4,140 sq. ft.), 4 in. of sand (1,200 cu. ft.) and earth backfill to grade.

SERVICE DATES: 1968-1977

SERVICE HISTORY:

From 3/68 to 1/77 the site received waste from PNL operations in the 231-Z building. The site was retired in 1/77. The waste is neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673

Photographs: 122440-155-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-32528, H-2-74440

SITE ID NO.: 216-Z-16

CHEMICALS DISPOSED

NITRATE:	0 kg
ALUMINUM FLUORIDE NITRATE:	0 kg
CARBON TETRACHLORIDE:	0 kg
CALCIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
SODIUM:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
SODIUM HYDROXIDE:	0 kg
ALUMINUM NITRATE:	0 kg
MAGNESIUM NITRATE:	0 kg
FERRIC NITRATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg
TOTAL VOLUME DISPOSED:	102000000 Liters

No chemicals have been discharged to this sit

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	4.09000
ZR-95:	0.00000	PU-240:	1.10000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00246
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-Z-17

ALIAS: 216-Z-17 Ditch or Trench

STATUS: Inactive

DIMENSIONS:

Length: 200 ft

Width: 10 ft

Depth: 8 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 670 ft

WATERTABLE: 191 ft

HRS Migration Score: 45.303

LOCATION: 200 West

COORDINATES: N40595/W76435, N40795/W76435 (Center line of trench)

SITE DESCRIPTION:

An 8 ft. deep trench with 200 ft. x 10 ft. bottom dimensions with a slope of 1:1. The excavation was backfilled after use (see comments).

SERVICE DATES: 1967-1968

SERVICE HISTORY:

From 2/67 to 2/68 the site received waste from PNL Operations in the 231-Z building. The site was retired in 2/68. The waste is neutral/basic.

REFERENCES:

Documents: ARH-2806, RHO-CD-673

Photographs: 122440-159-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-32528, H-2-74441

SITE ID NO.: 216-Z-17

CHEMICALS DISPOSED

NITRATE:	0 kg
ALUMINUM FLUORIDE NITRATE:	0 kg
CARBON TETRACHLORIDE:	0 kg
CALCIUM NITRATE:	0 kg
NITRIC ACID:	0 kg
DIBUTYL BUTYL PHOSPHONATE:	0 kg
SODIUM:	0 kg
TRIBUTYL PHOSPHATE:	0 kg
SODIUM HYDROXIDE:	0 kg
ALUMINUM NITRATE:	0 kg
MAGNESIUM NITRATE:	0 kg
FERRIC NITRATE:	0 kg
FLUORIDE:	0 kg
SULFATE:	0 kg

TOTAL VOLUME DISPOSED: 36700000 Liters

No chemicals have been discharged to this sit

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	2.87000
ZR-95:	0.00000	PU-240:	0.77300
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00102
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 216-Z-18

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 207 ft

Width: 100 ft

Depth: 18 ft

Diameter: 0 ft

FACILITY: Cribs (5)

ELEVATION: 673 ft

WATERTABLE: 197 ft

HRS Migration Score: 1.361

LOCATION: 200 West

COORDINATES: N38922/W76807, N38679/W76807, N38679/W77103, N38922/W77103
(Corners)

SITE DESCRIPTION:

5 parallel excavations, 207 ft. x 10 ft. with the depth ranging from 15 to 18 ft. A 300 ft. long, 3 in. diameter steel pipe runs east and west, bisecting the length of each excavation. Two 100 ft. long, 3 in. diameter perforated fiberglass reinforced epoxy pipes exit each side of the above line in each excavation (2 lines north, 2 lines south). The distribution pipes are 1 ft. above the crib bottom in a 2 ft. thick bed of 1.5 to 3 in. gravel (5,200 cu. ft.) per excavation. The excavation is backfilled to grade.

SERVICE DATES: 1969-1973

SERVICE HISTORY:

From 4/69 to 5/73 the site received waste from the 236-Z building. The site was retired in 5/73. The waste is high salt, acidic, organic waste with phosphate, 75% carbon tetrachloride.

REFERENCES:

Documents: ARH-2806, RHO-CD-673

Photographs: 122440-169-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-32528

SITE ID NO.: 216-Z-18

CHEMICALS DISPOSED

NITRATE:	500000 kg
ALUMINUM FLUORIDE NITRATE:	200000 kg
CARBON TETRACHLORIDE:	260000 kg
CALCIUM NITRATE:	130000 kg
NITRIC ACID:	37000 kg
DIBUTYL BUTYL PHOSPHONATE:	15000 kg
SODIUM:	200000 kg
TRIBUTYL PHOSPHATE:	22000 kg
SODIUM HYDROXIDE:	0 kg
ALUMINUM NITRATE:	170000 kg
MAGNESIUM NITRATE:	170000 kg
FERRIC NITRATE:	37000 kg
FLUORIDE:	0 kg
SULFATE:	10000 kg
TOTAL VOLUME DISPOSED:	3860000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	1310.00000
ZR-95:	0.00000	PU-240:	353.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 218-W-1

ALIAS: Dry Waste No. 001
STATUS: Inactive
DIMENSIONS:
Length: 521 ft
Width: 458 ft
Depth: 9 ft
Diameter: 0 ft

FACILITY: Burial Ground
ELEVATION: 684 ft
WATERTABLE: 209 ft
HRS Migration Score: 0.653

LOCATION: 200 West
COORDINATES: N41641/W77458, N42099/W77458, N42099/W77979, N41641/W77979

SITE DESCRIPTION:

This site has dimensions of 521 ft. x 458 ft. The site contains 15 trenches running east-west. 12 of these are 8 ft. deep, 5 ft. wide, and 16 ft. wide at ground level. The other 3 are 9 ft. deep flat bottom trenches with a 24 ft. surface width. There are two gravel roads running east-west through the burial ground.

SERVICE DATES: 1944-1952

SERVICE HISTORY:

This site received miscellaneous dry waste which was backfilled over. The site has been retired and stabilized.

REFERENCES:

Documents: ARH-2808, RHO-CD-673
Photographs: 122440-177-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74440

SITE ID NO.: 218-W-1

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	3.88000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	5370.00000
ZR-95:	0.00000	PU-240:	1450.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	4.30000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.02350
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	6.84000
CS-137:	4.15000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 218-W-1A

ALIAS: Industrial Waste Burial Ground #1

STATUS: Inactive

DIMENSIONS:

Length: 864 ft

Width: 755 ft

Depth: 25 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 696 ft

WATERTABLE: 238 ft

HRS Migration Score: 0.653

LOCATION: 200 West

COORDINATES: N45466/W74435, N45119/W74847, N44602/W74177, N44784/W77532

SITE DESCRIPTION:

This site contains approximately 10 trenches. There are also several areas used as individual burial holes, but definite locations are not known. Site depths are only available for Trench 6, which is 5 ft. deep, and trench 7, which is 20 ft. deep.

SERVICE DATES: 1944-1954

SERVICE HISTORY:

An unknown amount of industrial waste is buried here. This burial ground was the first large equipment burial site used in the 200 West Area. Most of the equipment was buried in wooden boxes, eventually rotting and settling the ground surface. Most of these sink holes were filled in 1975. Nearly all the surface contamination has decayed away that was found on a large number of 6 ft. thick concrete cell blocks stored above ground south of the railroad tracks. The site has been retired and stabilized.

REFERENCES:

Documents: RHO-CD-673

Photographs: 122440-135-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74438

SITE ID NO.: 218-W-1A

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	932.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	114.00000
ZR-95:	0.00000	PU-240:	30.80000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	1030.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.30200
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	1710.00000
CS-137:	997.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 218-W-2

ALIAS: Dry Waste Burial Ground No.2

STATUS: Inactive

DIMENSIONS:

Length: 589 ft

Width: 521 ft

Depth: 16 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 688 ft

WATERTABLE: 200 ft

HRS Migration Score: 0.653

LOCATION: 200 West

COORDINATES: N41052/W77979, N41052/W77458, N41641/W77458, N41641/W77979

SITE DESCRIPTION:

This site is a burial ground containing 20 miscellaneous dry waste trenches, running east-west with bottom widths of 5 ft. and lengths ranging from 463 ft. to 471 ft.

SERVICE DATES: 1953-1956

SERVICE HISTORY:

This burial ground contains miscellaneous dry waste. The site has been retired and stabilized.

REFERENCES:

Documents: RHO-CD-673

Photographs: 122440-177-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74440

SITE ID NO.: 218-W-2

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	9.70000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	7190.00000
ZR-95:	0.00000	PU-240:	1940.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	10.80000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.46900
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	19.60000
CS-137:	10.40000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 218-W-3

ALIAS: Dry Waste Burial Ground No.3

STATUS: Inactive

DIMENSIONS:

Length: 716 ft

Width: 510 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 684 ft

WATERTABLE: 220 ft

HRS Migration Score: 0.653

LOCATION: 200 West

COORDINATES: N43945/W78092, N43229/W78092, N43229/W77582, N43945/W77582

SITE DESCRIPTION:

This is a dry waste burial ground including twenty trenches. Trenches #1-3 are 400 ft. in length and trenches #3-20 are 475 ft. in length. Reference 132 states: Exact trench widths are unknown, therefore making proper estimation of road space (running parallel with trenches) difficult--safely saying, there is no access between trenches.

SERVICE DATES: 1957-1961

SERVICE HISTORY:

This dry burial waste burial ground contains miscellaneous unsegregated mixed TRU and non-TRU wastes. This site is now retired and has been stabilized.

REFERENCES:

Documents: RHO-CD-673

Photographs: 122440-118-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74440

SITE ID NO.: 218-W-3

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	17.50000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	3880.00000
ZR-95:	0.00000	PU-240:	1050.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	19.30000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	23.50000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	38.80000
CS-137:	18.70000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 218-W-4A

ALIAS: Dry Waste Burial Ground #4A

STATUS: Inactive

DIMENSIONS:

Length: 825 ft

Width: 750 ft

Depth: 16 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 676 ft

WATERTABLE: 215 ft

HRS Migration Score: 0.653

LOCATION: 200 West

COORDINATES: N42278/W78079, N42278/W77431, N43158/W77012, N43158/W78079

SITE DESCRIPTION:

This is a burial ground containing 21 filled trenches and a miscellaneous burial trench 77 ft. long and running north-east and located east of trench 11. The trenches are all 30 ft. wide and range in length from 490 ft. to 969 ft. This site also contains 2 caissons. One is located between trenches 17 & 18 and the other is between trenches 18 & 19. Both caissons consist of a 12 in. ga. well casing 26 in. in diameter and extends 48 ft. below grade.

SERVICE DATES: 1959-1968

SERVICE HISTORY:

This burial ground contains miscellaneous dry, unsegregated mixed TRU and non-TRU waste. For specific trench contents see physical file or drawing H-2-32487. The site is now retired.

REFERENCES:

Documents: RHO-CD-673

Photographs: 122440-177-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74440

SITE ID NO.: 218-W-4A

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	58.40000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	2020.00000
ZR-95:	0.00000	PU-240:	545.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	64.70000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	132.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	152.17000
CS-137:	62.50000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 218-W-7

ALIAS: 222-S Vault

STATUS: Inactive

DIMENSIONS:

Length: 16 ft

Width: 16 ft

Depth: 14 ft

Diameter: 12 ft

FACILITY: Vault

ELEVATION: 680 ft

WATERTABLE: 205 ft

HRS Migration Score: 0.653

LOCATION: 200 West

COORDINATES: N43129/W73540 (Center of Vault)

SITE DESCRIPTION:

This site is a concrete vault with dimensions of 12 ft. in diameter, 14 ft. deep, and sits on a 1 ft. concrete foundation. The vault has a dome and vent structure that extends 10.5 ft. to the ground surface. The bottom of the vault structure is 25.5 ft. below grade.

SERVICE DATES: 1952-1960

SERVICE HISTORY:

This vault contains dry packaged laboratory and sample waste from 222-S laboratory. This site has been retired and locked out from future use.

REFERENCES:

Documents: RHO-CD-673

Photographs: 122440-254-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 218-W-7

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	78.20000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.04000
ZR-95:	0.00000	PU-240:	0.01080
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	86.60000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00023
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	165.00000
CS-137:	83.60000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 218-W-8

ALIAS: 222-T Vault
STATUS: Inactive
DIMENSIONS:
Length: 16 ft
Width: 16 ft
Depth: 28 ft
Diameter: 0 ft

FACILITY: Vault
ELEVATION: 718 ft
WATERTABLE: 257 ft
HRS Migration Score: 0.653

LOCATION: 200 West
COORDINATES: N43675/W73015 (Center of vault)

SITE DESCRIPTION:

Three underground vaults are contained in this site. The two original vaults are 10 ft. x 10 ft. x 12 ft. deep and are made of 2 in. x 12 in. wooden planking with the tops 5 ft. below grade. The replacement vault is a concrete culvert pipe encasement which is 8 ft. in diameter and 25 ft. deep, placed 3 ft. 2 in. below grade. The top of the encasement is a 9 in. precast concrete cover, and the bottom is a 12 in. thick concrete floor. The disposal chutes for the wooden vault were removed and 15 yards of fill soil were hauled in to fill sink holes.

SERVICE DATES: 1944-1952

SERVICE HISTORY:

The vaults in this site contain laboratory process sample waste from the 222-T building. The site has been retired.

REFERENCES:

Documents: RHO-CD-673
Photographs: 122440-138-CN
Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-74438

SITE ID NO.: 218-W-8

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	14.90000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.01710
ZR-95:	0.00000	PU-240:	0.00462
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	16.60000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00010
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	26.70000
CS-137:	16.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 218-W-9

ALIAS: Dry Waste Burial Ground No. 9

STATUS: Inactive

DIMENSIONS:

Length: 140 ft

Width: 98 ft

Depth: 12 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 676 ft

WATERTABLE: 204 ft

HRS Migration Score: 0.000

LOCATION: 200 West

COORDINATES: N35647/W74556, N35508/W74555, N35511/W74458, N35648/W74458

SITE DESCRIPTION:

This site consists of a burial area 137 ft. x 975 ft. The location is designated by four corner posts marked with Do No Excavate signs. No data is available regarding depth, slope, or actual area used inside the fenced area.

SERVICE DATES: 1954-1954

SERVICE HISTORY:

The trench contains an unknown amount of metal scrap including the 211-S Tank taken from the REDOX facility. The site has been stabilized and retired.

REFERENCES:

Documents: RHO-CD-673

Photographs: 122440-245-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 218-W-9

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 218-W-11

ALIAS: Solid Waste Burial and Regulated Storage

STATUS: Inactive

DIMENSIONS:

Length: 500 ft

Width: 200 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 684 ft

WATERTABLE: 210 ft

HRS Migration Score: 0.000

LOCATION: 200 West

COORDINATES: N42099/W77458, N42278/W77458, N42278/W77979, N42099/W77979

SITE DESCRIPTION:

This is an aboveground storage site for low-level contaminated equipment. It also contains two filled burial trenches running east-west. Trench one is 258 ft. long and trench two is 150 ft. long.

SERVICE DATES: 1960-1960

SERVICE HISTORY:

The trenches were used for burial of low-level contaminated sluicing equipment that had been used for the uranium recovery program. Some of the equipment was later taken from the trench and is now in use in the Strontium-Cesium recovery program. The site has been retired and stabilized.

REFERENCES:

Documents: RHO-CD-673

Photographs: 122440-177-CN

Drawings: H-2-44510, H-2-34762, H-3-57210, H-2-36849, H-2-74440

SITE ID NO.: 218-W-11

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 207-S

STATUS: Inactive

DIMENSIONS:

Length: 130 feet
Width: 130 feet
Depth: 7 feet
Diameter:

FACILITY: Retention Basin
ELEVATION: 666 feet
WATERTABLE: 190 feet
HRS Migration Score: 1.420

LOCATION: 200 West

COORDINATES: N34153/W75133, N34287/W75133, N34287/W75267, N34153/W75267

DESCRIPTION OF FACILITY:

Concrete basin, 130 ft. x 130 ft. x 8 ft. deep with a volume of 853,000 gallons. The walls are about 10 in. thick and the floors are 8 in. thick. The basin has been backfilled with soil.

DATE OF OPERATIONS: 1951 - 1954

DESCRIPTION OF WASTE:

From October, 1951 to April, 1954 the site received process cooling water and steam condensate from the 202-S Building. These were then discharged to the 216-S-17 Pond. The site was retired in April, 1954.

UNPLANNED RELEASES:

EXTENT OF CONTAMINATION:

REFERENCES:

Documents:
Photographs:
Drawings: H-2-5326 #1 & 2, H-2-5542, H-2-34762

SITE ID NO.: 207-Z

STATUS: Inactive

DIMENSIONS:

Length: 50 feet

Width: 40 feet

Depth: 10 feet

Diameter:

FACILITY: Retention Basin

ELEVATION: 675 feet

WATERTABLE: 201 feet

HRS Migration Score: 1.030

LOCATION: 200 West

COORDINATES: N39573/W76530

DESCRIPTION OF FACILITY:

Retention Basin, made of two concrete basin structures within one concrete structure, 49.5 ft. x 40 ft. x 9 ft. deep. The basins are separated by a concrete wall, 1 ft. thick. There is a woven wire fence around the top perimeter 6 ft. high. Each basin contains a sump with a sump pump.

DATE OF OPERATIONS: 1949 - 1959

DESCRIPTION OF WASTE:

From 1949 to 1959 the site received 234-5Z potentially contaminated waste - steam condensate and cooling water via the D-3 piping system was sent to this holding facility, then released to the 216-Z-1 ditch (approximate dates).

UNPLANNED RELEASES:

EXTENT OF CONTAMINATION:

REFERENCES:

Documents:

Photographs:

Drawings: H-2-16422, H-2-16421, H-2-44511, H-2-16022

SITE ID NO.: Construction Surface Laydown Area

ALIAS: Non-Rad Burial Ground

STATUS: Inactive

DIMENSIONS:

Length: 400 ft

Width: 175 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 715 ft

WATERTABLE: 250 ft

HRS Migration Score: 0.000

LOCATION: 200 West

COORDINATES: N37625/W72450 (Approximate center of pit)

SITE DESCRIPTION:

A 400 x 175 ft shallow trench at the corner of 16th St. & Beloit Ave. in the 200 West Area.

SERVICE DATES: 1945-1950

SERVICE HISTORY:

This site was used to dispose of unuseable valves, piping, and other plumbing materials. The area was cleaned and grubbed in 1987 prior to the construction of the 216-U-17 crib.

REFERENCES:

Documents: None

Photographs: 122440-227-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: Construction Surface Laydown Area

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: 200 West Burning Pit

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 200 ft

Width: 200 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Burning Pit

ELEVATION: 715 ft

WATERTABLE: 247 ft

HRS Migration Score: 0.000

LOCATION: 200 West

COORDINATES: N39800/W72200 (Center of Pit)

SITE DESCRIPTION:

A pit used to burn non-radioactive material.

SERVICE DATES: 1950-1970

SERVICE HISTORY:

Construction and Office Wastes 1.5 x 10⁴ cubic meters. Paint Waste. Chemical Solvents 1.0 x 10³ liters.

REFERENCES:

Documents: None

Photographs: 122440-224-CN

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: 200 West Burning Pit

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: Z Plant Burning Pit

ALIAS: None

STATUS: Exhumed

DIMENSIONS:

Length: 50 ft

Width: 40 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Burning Pit

ELEVATION: 690 ft

WATERTABLE: 220 ft

HRS Migration Score: 0.000

LOCATION: 200 West Area

COORDINATES: N39900/W77800 (Center of pit)

SITE DESCRIPTION:

A pit used to burn non-radioactive material.

SERVICE DATES: 1950-1960

SERVICE HISTORY:

Office and Laboratory waste Volume 2.0×10^3 cubic meters.

Chemical--less than 1.0×10^{13} cubic meters.

REFERENCES:

Documents: None

Photographs:

Drawings: H-2-44510, H-2-34762, H-3-57210

SITE ID NO.: Z Plant Burning Pit

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

300 AREA ENGINEERED-FACILITY SITES

The following sites are included in this section. To locate these sites, please refer to the appropriate area map in Appendix B, Volume 1, of this document.

300 Area

316-1
316-2
316-3
316-4

SITE ID NO.: 316-1

ALIAS: South Pond, 300 Area South Process Ponds

STATUS: Inactive

DIMENSIONS:

Length: 600 ft

Width: 375 ft

Depth: 9 ft

Diameter: 0 ft

FACILITY: Pond

ELEVATION: 376 ft

WATERTABLE: 34 ft

HRS Migration Score:79.284

LOCATION: 300 Area

COORDINATES: N55225/E16250, N54750/E16280, N54713/E15584, N55200/E15441,
N55387/E15789

SITE DESCRIPTION:

An 8 acre pond area containing 5 separate pond sections. Ponds 1, 2, & 3 are separated by two 30 ft. dikes, with the largest pond (No. 4) separated from 1, 2, & 3 (West side) by a 16 ft. dike and from Pond No. 5 (East side) by 100 ft. of land. The dikes were then bulldozed into 3 sections and the fill was used to cover loose material. In 1949 and 1953, the ponds were dredged and the sludge was removed and buried on the edge of the pond and the dikes.

SERVICE DATES: 1943-1975

SERVICE HISTORY:

From 1943 to 1975, the site received cooling water and low-level liquid wastes from fuel fabrication operations with incidental additional waste from the 3706 and 321 Buildings, wastes from the works Lab, organic wastes and water from 303 Area floor drains. The site was deactivated in 1975 and the pond has since dried out.

REFERENCES:

Documents: HW-43121, HW-33305, DUN-3155

Photographs: 122440-268-CN

Drawings: H-3-57210, H-3-32708, H-3-53734, H-3-32585

SITE ID NO.: 316-1

CHEMICALS DISPOSED

SODIUM:	2000000 kg	SODIUM ALUMINATE:	2000000 kg
SODIUM HYDROXIDE:	1000000 kg	NITRATE:	1000000 kg
NITRITE:	900000 kg	SODIUM SILICATE:	100000 kg
MERCURY:	60 kg	NICKEL (II):	10000 kg
CHROMIUM (VI):	5000 kg	ZINC (II):	5000 kg
CADMIUM (II):	80 kg	SILVER (I):	1000 kg
LEAD (II):	4000 kg	BERYLLIUM:	40 kg
FLUORIDE:	7000 kg	COPPER (II):	60000 kg
TRICHLOROETHYLENE:	100000 kg	METHYL ISOBUTYL KEYTONE:	0 kg
URANIUM:	40000 kg	NITRIC ACID:	1000000 kg

TOTAL VOLUME DISPOSED: 10000000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00100	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 316-2

ALIAS: North Pond, 300 Area North Process Ponds

STATUS: Inactive

DIMENSIONS:

Length: 620 ft

Width: 600 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Pond

ELEVATION: 376 ft

WATERTABLE: 34 ft

HRS Migration Score:79.284

LOCATION: 300 Area

COORDINATES: N57000/E15880, N56310/E16050, N56133/E15325, N56752/E15325

SITE DESCRIPTION:

This pond area consists of 7 separate sections separated by 12 ft. wide dikes, with the entire 10 acre area surrounded by a dike 15 ft. wide and approximately 10 ft. high. The pond has been dredged periodically to increase infiltration rate. Some subdividing dikes have been bulldozed to cover the pond bottom.

SERVICE DATES: 1949-1974

SERVICE HISTORY:

From 1949 to 1974 the site received low-level radionuclide liquid wastes and cooling water from 3706 and 321 Buildings, aqueous wastes containing unirradiated uranium from the Works Laboratory, and water from the floor drains in the 303 Area. The waste flowed through the 307 Retention Basin en route to the pond. The site was retired in 1974. The pond has since dried out.

REFERENCES:

Documents: HW-43121, HW-33305, DUN-3155

Photographs: 122440-263-CN, 122440-264-CN, 122440-274-CN

Drawings: H-3-57210, H-3-32708, H-3-32585

SITE ID NO.: 316-2

CHEMICALS DISPOSED

SODIUM:	1000000 kg	SODIUM ALUMINATE:	2000000 kg
SODIUM HYDROXIDE:	800000 kg	NITRATE:	800000 kg
NITRITE:	700000 kg	SODIUM SILICATE:	90000 kg
MERCURY:	40 kg	NICKEL (II):	8000 kg
CHROMIUM (VI):	3000 kg	ZINC (II):	3000 kg
CADMIUM (II):	60 kg	SILVER (I):	900 kg
LEAD (II):	2000 kg	BERYLLIUM:	30 kg
FLUORIDE:	5000 kg	COPPER (II):	50000 kg
TRICHLOROETHYLENE:	100000 kg	METHYL ISOBUTYL KEYTONE:	0 kg
URANIUM:	30000 kg	NITRIC ACID:	900000 kg

TOTAL VOLUME DISPOSED: 10000000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.05000
CO-60:	0.00100	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 316-3

ALIAS: 307 Disposal Trenches

STATUS: Inactive

DIMENSIONS:

Length: 600 ft

Width: 10 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Trench

ELEVATION: 393 ft

WATERTABLE: 43 ft

HRS Migration Score:79.284

LOCATION: 300 Area

COORDINATES: N54265/E16000, N54185/E16000, N54185/E15475, N54265/E15475

SITE DESCRIPTION:

Two parallel trenches 600 ft. x 10 ft. x 20 ft deep.

SERVICE DATES: 1953-1963

SERVICE HISTORY:

From 1953/54 to 1963, the site received wastes from the Works Laboratory Area (329 Biophysics Lab, 327 Radiometallurgy Bldg., 325 Radiochemistry Bldg., 326 Pile Technology Bldg.) and sludge from 316-1 Pond. These wastes went through the 307 Retention Basin before releasing to the trenches. The site was retired in 1963 and the trenches filled in. The 300 Area burning gravel pit is part of the 316-3 trench.

REFERENCES:

Documents: RHO-CD-673, HW-43121, HW-33305

Photographs: 122440-270-CN, 34631-3, 27854-8

Drawings: H-3-57210, H-3-32708, H-3-53734

SITE ID NO.: 316-3

CHEMICALS DISPOSED

SODIUM:	0 kg	SODIUM ALUMINATE:	0 kg
SODIUM HYDROXIDE:	0 kg	NITRATE:	0 kg
NITRITE:	0 kg	SODIUM SILICATE:	0 kg
MERCURY:	10 kg	NICKEL (II):	3000 kg
CHROMIUM (VI):	1000 kg	ZINC (II):	1000 kg
CADMIUM (II):	20 kg	SILVER (I):	300 kg
LEAD (II):	600 kg	BERYLLIUM:	10 kg
FLUORIDE:	2000 kg	COPPER (II):	20000 kg
TRICHLOROETHYLENE:	0 kg	METHYL ISOBUTYL KEYTONE:	0 kg
URANIUM:	10000 kg	NITRIC ACID:	0 kg

TOTAL VOLUME DISPOSED: 1000000000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available

These values are decayed through April 1, 1986.

SITE ID NO.: 316-4

ALIAS: 321 Crib, 300 North Crib

STATUS: Inactive

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 10 ft

Diameter: 8 ft

FACILITY: Crib

ELEVATION: 438 ft

WATERTABLE: 68 ft

HRS Migration Score:16.597

LOCATION: 300 Area

COORDINATES: N6300/E3750

SITE DESCRIPTION:

Two approx. 8 ft. diameter, 7 ft. high, open bottom, 1/4 in. thick SS tanks buried 10 ft. below grade, resting on gravel strata. There is a waste influent line to the tanks starting at 2 ft. above the bottom of one of the tanks extending at an angle above the tank top to grade level. A vent riser extends from the top to the same tank to 8 ft. above grade. The tanks are placed 2 ft. apart with SS overflow pipe connecting them just below the tops of the tanks.

SERVICE DATES: 1948-1956

SERVICE HISTORY:

From 1948 to 1956 the site received water contaminated with hexone bearing uranium wastes and limited amounts of other uranium bearing wastes from the 321 building. The site was retired sometime around 7/55 to 1956.

REFERENCES:

Documents: RHO-CD-673, HW-43121, ARH-2164, HW-39076, HW-33305

Photographs: 122440-260-CN, 122440-261-CN

Drawings: H-3-57210, H-3-32708

SITE ID NO.: 316-4

CHEMICALS DISPOSED

SODIUM:	0 kg	SODIUM ALUMINATE:	0 kg
SODIUM HYDROXIDE:	0 kg	NITRATE:	1000 kg
NITRITE:	0 kg	SODIUM SILICATE:	0 kg
MERCURY:	0 kg	NICKEL (II):	0 kg
CHROMIUM (VI):	0 kg	ZINC (II):	0 kg
CADMIUM (II):	0 kg	SILVER (I):	0 kg
LEAD (II):	0 kg	BERYLLIUM:	0 kg
FLUORIDE:	0 kg	COPPER (II):	0 kg
TRICHLOROETHYLENE:	0 kg	METHYL ISOBUTYL KEYTONE:	3000 kg
URANIUM:	2000 kg	NITRIC ACID:	0 kg

TOTAL VOLUME DISPOSED: 200000 Liters

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available

These values are decayed through April 1, 1986.

600 AREA ENGINEERED-FACILITY SITES

The following sites are included in this section. To locate these sites, please refer to the appropriate area map in Appendix B, Volume 1, of this document.

600 Area

618-1
618-2
618-3
618-4
618-5
618-6
618-7
618-8
618-9
618-10
618-11
618-12
618-13
P-11
213-J and K
Original CLF
Horn Rapids Disposal
USBR-2.4-D
J.A. Jones #1
J.A. Jones #2
Midway Landfill #1
Midway Landfill #2
White Bluffs Landfill
East White Bluffs Landfill
Sodium Dichromate Barrel Disposal Site
Hanford Trailer Camp Landfill
White Bluffs Pickling Acid Crib
Hanford Townsite Landfill
Riverland Railroad Car Wash Pit

SITE ID NO.: 618-1

ALIAS: Solid Waste Burial Ground #1

STATUS: Inactive

DIMENSIONS:

Length: 320 ft

Width: 150 ft

Depth: 20 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 390 ft

WATERTABLE: 48 ft

HRS Migration Score: 0.000

LOCATION: 600 Area

COORDINATES: N55310/W14987, N55360/W14987, N55310/W14834, N55630/W14834

SITE DESCRIPTION:

Burial ground consisting of at least two trenches running north-south, 16 ft. wide (surface) x 200 ft. long x 8 ft. deep. There are also a series of pits running east-west, 20 ft. deep and 15 ft. wide.

SERVICE DATES: 1945-1956

SERVICE HISTORY:

This burial ground was active from 1945 to 1956. The site contains uranium, plutonium and fission products from the 300 Area fuel fabrication with incidental additional waste from a very small laboratory operation.

REFERENCES:

Documents: HW-43121

Photographs: 122440-267-CN

Drawings: H-3-57210, H-3-32585

SITE ID NO.: 618-1

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.06000
ZR-95:	0.00000	PU-240:	0.01700
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 618-2

ALIAS: Solid Waste Burial Ground #2

STATUS: Inactive

DIMENSIONS:

Length: 350 ft

Width: 215 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 385 ft

WATERTABLE: 43 ft

HRS Migration Score: 0.000

LOCATION: 600 Area

COORDINATES: N55700/WE15060, N55700/E14845, N56050/E14845, N56050/E15060

SITE DESCRIPTION:

Burial ground containing four trenches running east-west. One trench is 51 ft. wide (top width) x 150 ft. long x 15 ft. deep, with a bottom width of 6 ft. The location and dimensions of three trenches are unknown.

SERVICE DATES: 1951-1954

SERVICE HISTORY:

This burial ground was active from 1951 - 1954. The burial ground was used for disposal of uranium-contaminated equipment and materials, plutonium, and fission products. The uranium waste was typically solid metallic uranium oxides in the form of metal cuttings from reactor fuel fabrication facilities in the 300 Area.

REFERENCES:

Documents:

Photographs: 122440-281-CN

Drawings: H-3-57210, H-3-32585

SITE ID NO.: 618-2

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	2000.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

These values are decayed through April 1, 1986.

SITE ID NO.: 618-3

ALIAS: Burial Ground #3

STATUS: Inactive

DIMENSIONS:

Length: 350 ft

Width: 165 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 385 ft

WATERTABLE: 43 ft

HRS Migration Score: 0.000

LOCATION: 600 Area

COORDINATES: N55703/E14677, N55703/E14832, N56045/E14677, N56045/E14832

SITE DESCRIPTION:

Burial ground consisting of one large trench running north-south, 350 ft. x 165 ft. x 15 ft. deep.

SERVICE DATES: 1954-1955

SERVICE HISTORY:

This burial ground was active from 1954 - 1955. The site was primarily used for the disposal of uranium waste in the form of contaminated building material derived from the 313 buildings.

REFERENCES:

Documents:

Photographs: 122440-282-CN

Drawings: H-3-57210, H-3-32585

SITE ID NO.: 618-3

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 618-4

ALIAS: Burial Ground #4

STATUS: Inactive

DIMENSIONS:

Length: 570 ft

Width: 220 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 400 ft

WATERTABLE: 58 ft

HRS Migration Score: 0.000

LOCATION: 600 Area

COORDINATES: N57832/E14546 (Southwest Corner)

SITE DESCRIPTION:

Burial ground--containing elongated pits which were filled and covered with clean dirt.

SERVICE DATES: 1955-1961

SERVICE HISTORY:

This burial ground was active from 1955 - 1961. The site contains an unknown quantity of uranium-contaminated miscellaneous materials.

REFERENCES:

Documents:

Photographs: 122440-262-CN

Drawings: H-3-57210, H-3-32585

SITE ID NO.: 618-4

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 618-5

ALIAS: Burial Ground #5
STATUS: Inactive
DIMENSIONS:
Length: 300 ft
Width: 18 ft
Depth: 15 ft
Diameter: 0 ft

FACILITY: Burial Ground
ELEVATION: 374 ft
WATERTABLE: 32 ft
HRS Migration Score: 0.000

LOCATION: 600 Area
COORDINATES: N57245/E15429 (Southwest corner)

SITE DESCRIPTION:

Burial ground containing a burning trench oriented northeast-southwest by its largest dimension. It was covered and filled with 4 ft. of clean soil.

SERVICE DATES: 1945-1962

SERVICE HISTORY:

This burial ground was active from the mid 1945 to 1962. The site was used as a burning pit for uranium-bearing trash and for non-radioactive trash collected from the 300 Area.

REFERENCES:

Documents:
Photographs: 122440-265-CN, 122440-277-CN, 122440-266-CN
Drawings: H-3-57210, H-3-32585

SITE ID NO.: 618-5

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 618-6

ALIAS: Burial Ground #6

STATUS: Exhumed

DIMENSIONS:

Length: 0 ft

Width: 0 ft

Depth: 0 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 0 ft

WATERTABLE: 0 ft

HRS Migration Score: 0.000

LOCATION: 600 Area

COORDINATES: Exhumed

SITE DESCRIPTION:

This burial ground no longer exists. It was originally located in the vicinity of the 325 building and was moved two times thereafter due to the construction of buildings at its locations. It was first located at the site of the 325 building from 1944-1946, next moved to the 308 building site existing from 1952-1957, and finally moved to the site of the 324 building existing from 1957-1962. In 1962 the contents were removed to the 618-10 Burial Ground when the area was needed for construction.

SERVICE DATES: 1944-1946

SERVICE HISTORY:

This burial ground was used from 1944-1946. It contained solid uranium waste.

REFERENCES:

Documents:

Photographs: Exhumed

Drawings: H-3-57210, H-3-32585

SITE ID NO.: 618-6

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site has been exhumed, therefore no radioactivity is present.

These values are decayed through April 1, 1986.

SITE ID NO.: 618-7

ALIAS: Burial Ground #7
STATUS: Inactive
DIMENSIONS:
Length: 1120 f
Width: 650 ft
Depth: 12 ft
Diameter: 0 ft

FACILITY: Burial Ground
ELEVATION: 396 ft
WATERTABLE: 54 ft
HRS Migration Score: 0.000

LOCATION: 600 Area
COORDINATES: N56300/E12655, N56300/E11995, N57420/E12655, N57420/E11995

SITE DESCRIPTION:

There are two drive-in, east-west oriented trenches. Both trenches have been closed and backfilled. The V-shaped pit in the center (approximately N56550) was used for thoria disposal. The site was backfilled and covered with clean soil.

SERVICE DATES: 1960-1973

SERVICE HISTORY:

Materials primarily from the 300 area fuel element manufacturing process. They are slightly contaminated with uranium or thorium, and some beryllium contaminated zircalloy is also in these pits.

REFERENCES:

Documents: HW-77274
Photographs: 122440-273-CN
Drawings: H-3-57210, M-6000 #1, H-3-32585

SITE ID NO.: 618-7

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 618-8

ALIAS: Early Waste Burial Ground
STATUS: Inactive
DIMENSIONS:
Length: 600 ft
Width: 100 ft
Depth: 15 ft
Diameter: 0 ft

FACILITY: Burial Ground
ELEVATION: 389 ft
WATERTABLE: 47 ft
HRS Migration Score: 0.000

LOCATION: 600 Area
COORDINATES: N55736/E14320, N55736/E14220, N56333/E14320, N56333/E14220

SITE DESCRIPTION:

Burial ground--number of burial trenches and dimensions are unknown. A parking lot was constructed over the majority of the site and subsequently the radiation monuments were cut down to grade.

SERVICE DATES: 1943-1944

SERVICE HISTORY:

This burial ground was active from 1943 - 1944. The site was mainly used for the disposal of uranium contaminated solid waste derived from reactor fuels manufacturing.

REFERENCES:

Documents:
Photographs: 122440-280-CN
Drawings: H-3-57210, H-3-32585

SITE ID NO.: 618-8

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 618-9

ALIAS: 300 West Burial Ground

STATUS: Inactive

DIMENSIONS:

Length: 200 ft

Width: 18 ft

Depth: 8 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 400 ft

WATERTABLE: 58 ft

HRS Migration Score: 0.000

LOCATION: 600 Area

COORDINATES: N55738/E11016, N55738/E10998, N55938/E11016, N55938/E10998

SITE DESCRIPTION:

Burial ground consisting of a trench 18-20 ft. wide x 140 ft. long (surface dimensions) x 8 ft. deep.

SERVICE DATES: 1950-1956

SERVICE HISTORY:

This burial ground was active from 1950 - 1956. The site contains 55-gallon drums of uranium contaminated organic solvent (5000 gal) from the 321 building. It was removed from service, backfilled, identified with markers, and stabilized.

REFERENCES:

Documents:

Photographs: 122440-271-CN

Drawings: H-3-57210, H-3-32585

SITE ID NO.: 618-9

CHEMICALS DISPOSED

TRIBUTYL PHOSPHATE: 6000 kg
PARAFFIN HYDROCARBON: 10000 kg

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 618-10

ALIAS: 300 North Solid Waste Burial Ground
STATUS: Inactive
DIMENSIONS:
Length: 500 ft
Width: 500 ft
Depth: 25 ft
Diameter: 0 ft

FACILITY: Burial Ground
ELEVATION: 430 ft
WATERTABLE: 60 ft
HRS Migration Score: 0.000

LOCATION: 600 Area
COORDINATES: S6200/E2883, S5818/E2592, S5530/E2982, S5982/E3329

SITE DESCRIPTION:

Burial ground consisting of 12 trenches and 94 pipe facilities. The trenches range in size from 320 ft. long x 70 ft. wide x 25 ft. deep to 50 ft. x 40 ft. x 25 ft. The pipe facilities are 22 in. diameter, 15 ft. long pipes made by welding together five 55 gallon drums, buried vertically. They have been backfilled and topped with concrete.

SERVICE DATES: 1953-1963

SERVICE HISTORY:

This burial ground was active from 1953 - 1963. The site contains a broad spectrum of low level dry wastes, primarily fission products and plutonium from the 300 area. Low-level wastes are buried in trenches, beta-gamma wastes are stored in the pipe facilities. The site has been retired and stabilized.

REFERENCES:

Documents: HW-39076, ARH-2164
Photographs: 122440-259-CN
Drawings: H-3-57210, M-6000 #1

SITE ID NO.: 618-10

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 618-11

ALIAS: 300 Wye Burial Ground

STATUS: Inactive

DIMENSIONS:

Length: 1000 f

Width: 375 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Burial Ground

ELEVATION: 430 ft

WATERTABLE: 50 ft

HRS Migration Score: 0.000

LOCATION: 600 Area

COORDINATES: N12103/W2561, N12103/W3561, N12478/W2561, N12478/W3561

SITE DESCRIPTION:

Burial site composed of three trenches, 54 pipe storage units and 8 to 10 caissons. The trenches are 900 ft. long x 50 ft. wide (surface dimensions). The pipe storage units are 22 inches in diameter x 15 ft. long buried vertically, and made by welding five 55-gallon drums together. The caissons are 8 ft. diameter corrugated metal pipe 10 ft. long buried 15 ft. below grade, connected to the surface by an off-set 36 in. diameter pipe with a dome type cap.

SERVICE DATES: 1962-1967

SERVICE HISTORY:

This burial ground was active from 1962 - 1967. The site contains a broad spectrum of low level dry waste, primarily fission products and plutonium. The wastes were buried in the trenches and high level wastes were buried in the pipe storage units and caissons. The site has been retired and stabilized.

REFERENCES:

Documents: ARH-2757, ARH-2164, HW-77274

Photographs: 122440-258-CN

Drawings: H-3-57210, M-6000 #1

SITE ID NO.: 618-11

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 618-12

ALIAS: North Process Pond Scraping Disposal Area

STATUS: Inactive

FACILITY: Burial Ground

DIMENSIONS:

ELEVATION: 376 ft

Length: 400 ft

WATERTABLE: 34 ft

Width: 200 ft

HRS Migration Score: 0.000

Depth: 8 ft

Diameter: 0 ft

LOCATION: 600 Area

COORDINATES: N56300/E15350, N56625/E15275, N57000/E15275, N56800/E15350

SITE DESCRIPTION:

The North Process Pond Scraping Disposal Area extends about 200 ft. south from the North Process Ponds.

SERVICE DATES: 1949-1964

SERVICE HISTORY:

This site was used for disposal of uranium contaminated soil scraped from 316-2 (North Process Pond) and some uranium contaminated soil removed from beneath the 321 Building during excavation for hydraulic core mockup. The site has been backfilled with ashes.

REFERENCES:

Documents:

Photographs: 54217-2

Drawings: H-3-57210

SITE ID NO.: 618-12

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: 618-13

ALIAS: 303 Area Contaminated Soil Burial Site, 318-13
STATUS: Inactive
DIMENSIONS:
Length: 125 ft
Width: 50 ft
Depth: 0 ft
Diameter: 0 ft
FACILITY: Burial Ground
ELEVATION: 400 ft
WATERTABLE: 58 ft
HRS Migration Score: 0.000

LOCATION: 600 Area
COORDINATES: N55575/E11400 (Center of site)

SITE DESCRIPTION:

A mound of soil piled to approximately 50 ft. high x 125 ft. long x 50 ft. wide covered with 2 ft. of clean soil.

SERVICE DATES: 1950-1950

SERVICE HISTORY:

Top soil from the 303 area removed in 1950 was piled approximately one-half to three-quarters of a mile northwest of the 300 area, and covered with two feet of clean soil. Total activity buried here is not known. The mound of covered contaminated material has been posted as a radiation zone.

REFERENCES:

Documents: HW-39076
Photographs: 122440-272-CN, 29033
Drawings: H-3-57210, H-3-32585

SITE ID NO.: 618-13

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

SITE ID NO.: P-11

ALIAS: 116-F-6
STATUS: Exhumed
DIMENSIONS:

Length: 8 ft
Width: 8 ft
Depth: 5 ft
Diameter: 0 ft

FACILITY: Crib
ELEVATION: 393 ft
WATERTABLE: 35 ft
HRS Migration Score: 0.000

LOCATION: 600 Area
COORDINATES: N63343/W25821 (Center of crib)

SITE DESCRIPTION:

Formerly a wooden crib, 8 ft. x 8 ft. x 5 ft. high, with 10 in. concrete outside walls, cover and base. The distribution pipe was 5 ft. below grade. The crib was covered with 3 ft. of soil. This site was exhumed in 1974.

SERVICE DATES: 1951-1951

SERVICE HISTORY:

From 1951 to 12/51 the site received low-level plutonium wastes from the 120 building (critical assembly room, chemistry laboratory, storage & tank room and change room). From 12/51 to 1974 the site was retired. Fire in the 120 building caused extensive structural damage and contamination of the building and surrounding area. The site was exhumed in 1974. There are no materials or structures left at this site. It is free of all chemicals and radioactivity.

REFERENCES:

Documents: HW-39076, ARH-ST-106
Photographs: 122440-388-CN, 122440-392-CN
Drawings: H-3-57210

SITE ID NO.: P-11

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site has been exhumed, therefore no radioactivity is present.

These values are decayed through April 1, 1986.

SITE ID NO.: 213-J and K

ALIAS: Gable Mt. Plutonium Storage Vaults
STATUS: Exhumed
DIMENSIONS:
Length: 15 ft
Width: 8 ft
Depth: 5 ft
Diameter: 0 ft

FACILITY: Cribs
ELEVATION: 560 ft
WATERTABLE: 170 ft
HRS Migration Score: 0.000

LOCATION: 600 Area
COORDINATES: N54675/W34855, N54675/W34745

SITE DESCRIPTION:

Two small cribs built, one on each side of the storage vaults. Each crib had a black iron distributor pipe (2" diameter) running the length of the crib approximately 4 ft. below ground level. The cribs were filled with gravel and capped over with a two inch thick concrete dome.

SERVICE DATES: 1944-1950

SERVICE HISTORY:

Very little water solution ever entered these cribs. The distributor piping was removed and inspected. Rust scale taken from the interior of the pipes was found to be free of radioactivity above world fallout levels. The cribs were removed from Radiation Zone status on November 11, 1974.

REFERENCES:

Documents: ARH-2164, RHO-CD-673
Photographs: 122440-21-CN
Drawings: H-3-57210

SITE ID NO.: 213 J & K

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site had been exhumed, therefore no radioactivity is present.

These values are decayed through April 1, 1986.

SITE ID NO.: Original CLF

ALIAS: Original Central Landfill

STATUS: Inactive

DIMENSIONS:

Length: 300 ft

Width: 50 ft

Depth: 15 ft

Diameter: 0 ft

FACILITY: Landfill

ELEVATION: 500 ft

WATERTABLE: 127 ft

HRS Migration Score: 0.000

LOCATION: 600 Area

COORDINATES: N25000/W25000

SITE DESCRIPTION:

This site contains only on trench, 300 ft. by 50 ft., approximately 15 ft. deep. It has been backfilled to grade.

SERVICE DATES: 1973-1973

SERVICE HISTORY:

This site contains general office wastes, some glass, electrical wastes and minimal metal wastes. It was open only for approximately nine months. Its poor location (with proximity to the road) allowed trash to blow in times of high wind thus creating a traffic hazzard.

REFERENCES:

Documents:

Photographs:

Drawings: H-3-57210

SITE ID NO.: Original CLF

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: Horn Rapids Disposal

ALIAS: Horn Rapids Landfill, ITT Waste Disposal Landfill
STATUS: Inactive FACILITY: Landfill
DIMENSIONS: ELEVATION: 450 ft
Length: 1000 f WATERTABLE: 50 ft
Width: 800 ft HRS Migration Score: 0.000
Depth: 40 ft
Diameter: 0 ft

LOCATION: 600 Area
COORDINATES: To be determined

SITE DESCRIPTION:

The site is approximately 1000 ft. x 800 ft. with varying depths averaging about 40 ft. The site is surrounded by a 12 ft. chain link fence, kept locked and posted. It is now a designated curlew nesting area and access is prohibited.

SERVICE DATES: 1950-1970

SERVICE HISTORY:

This site was used primarily for wastes generated in the 1100 Area. It contains paper, office, and minor construction wastes (paint cans, solvents, and oils.) It has not been used since 1970.

REFERENCES:

Documents:
Photographs: 122440-283-CN
Drawings: H-3-57210, M-6000 #1

SITE ID NO.: Horn Rapids Disposal

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: USBR-2.4-D

ALIAS: USBR-2.4-D Burial Ground

STATUS: Inactive

DIMENSIONS:

Length: 400 ft

Width: 12 ft

Depth: 4 ft

Diameter: 0 ft

FACILITY: Landfill

ELEVATION: 700 ft

WATERTABLE: 350 ft

HRS Migration Score: 0.000

LOCATION: 600 Area

COORDINATES: N75000/W10000

SITE DESCRIPTION:

A 400 ft. trench, 12 ft. wide by 4 ft. deep covered with 4 ft. of soil.

SERVICE DATES: 1966-1967

SERVICE HISTORY:

In 1966 2.4-D contaminated soil was generated from leaking storage tanks at a USBR Station in Eltopia, WA. The burial consisted of 900 gallons of 2.4-D which had leaked into 50 yards of soil. A second burial in 1967 consisted of the ten leaking tanks which were flattened and buried in the same location.

REFERENCES:

Documents: Personal Communication: K. H. Cramer to HCCP File, Oct. 1, 1985

Photographs: 122440-396-CN, 122440-397-CN, 122440-398-CN

Drawings: H-3-57210, M-6000 #1

SITE ID NO.: USBR-2.4-D

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: J.A. Jones #1

ALIAS: None
STATUS: Inactive
DIMENSIONS:

Length: 100 ft
Width: 50 ft
Depth: 10 ft
Diameter: 0 ft

FACILITY: Construction Pit
ELEVATION: 430 ft
WATERTABLE: 50 ft
HRS Migration Score: 0.000

LOCATION: 600 Area
COORDINATES: To be determined

SITE DESCRIPTION:

A landfill 100 ft. by 50 ft., 10 ft. deep filled to grade with clean soil.

SERVICE DATES: 1975-1979

SERVICE HISTORY:

This site contains miscellaneous non-radioactive solid wastes from various construction sites. It contains wood scraps, and concrete, and miscellaneous construction wastes. It has been backfilled and covered to grade.

REFERENCES:

Documents: H-3-57210
Photographs: 122440-278-CN, 122440-279-CN
Drawings:

SITE ID NO.: J.A. Jones #1

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: J.A. Jones #2

ALIAS: None
STATUS: Exhumed
DIMENSIONS:

Length: 30 ft
Width: 30 ft
Depth: 15 ft
Diameter: 0 ft

FACILITY: Burial Ground
ELEVATION: 420 ft
WATERTABLE: 45 ft
HRS Migration Score: 0.000

LOCATION: 600 Area
COORDINATES: To be determined

SITE DESCRIPTION:

Northwest of townsite off road turning to H-Area.

SERVICE DATES: 1948-1955

SERVICE HISTORY:

This site contained minor construction equipment used by the J.A. Jones Construction Company, which included wood scraps, concrete and some metallic waste. The site was exhumed and its contents taken to a 200 Area burial ground in 1971. The site was then backfilled to grade.

REFERENCES:

Documents: ARH-2757
Photographs:
Drawings: H-3-57210

SITE ID NO.: J.A. Jones #2

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site has been exhumed, therefore no radioactivity is present.

These values are decayed through April 1, 1986.

SITE ID NO.: Midway Landfill #1

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 300 ft

Width: 150 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Landfill

ELEVATION:

WATERTABLE: 185 ft

HRS Migration Score: 8.355

LOCATION: 600 Area

COORDINATES: To be determined

SITE DESCRIPTION:

An unlined excavation located to the east of the Midway Community approximately 300 feet by 150 feet.

SERVICE DATES: 1970-1980

SERVICE HISTORY:

The site was for disposal of ordinary household refuse from the Midway community. It was retired in 1980. It was backfilled with clean soil and has been returned to a natural state of vegetation.

REFERENCES:

Documents: Bonneville Power Administration File

Photographs: 122440-464-CN

Drawings: H-6-951

SITE ID NO.: Midway Landfill #1

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: Midway Landfill #2

ALIAS: None
STATUS: Inactive
DIMENSIONS:

Length: 200 ft
Width: 200 ft
Depth: 20 ft
Diameter: 0 ft

FACILITY: Landfill
ELEVATION:
WATERTABLE: 185 ft
HRS Migration Score:11.494

LOCATION: 600 Area
COORDINATES: To be determined

SITE DESCRIPTION:

An unlined excavation approximately 43,560 square feet located southwest of the switchyard at the base of the hill. In 1970 the site was returned to a natural state of vegetation following closure and covering with clean fill.

SERVICE DATES: 1945-1970

SERVICE HISTORY:

The site was used to dispose of household refuse from the Midway Substation community. It is thought that small quantities of spent solvents, empty herbicide containers, and a few failed capacitor cells were disposed of in this site.

REFERENCES:

Documents: Bonneville Power Administration File
Photographs: 122440-466-CN, 122440-467-CN, 122440-468-CN
Drawings: H-6-951

SITE ID NO.: Midway Landfill #2

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: White Bluffs Landfill

ALIAS: None
STATUS: Inactive
DIMENSIONS:

Length: 125 ft
Width: 50 ft
Depth: 10 ft
Diameter: 0 ft

FACILITY: Landfill
ELEVATION:
WATERTABLE:
HRS Migration Score: 8.690

LOCATION: 600 Area
COORDINATES: To be determined

SITE DESCRIPTION:

An unlined excavation 125 feet by 50 feet, 10 feet deep at the old White Bluffs Townsite, between Federal Avenue and Route 2 North.

SERVICE DATES: 1850-1943

SERVICE HISTORY:

The site was used for normal commercial and domestic wastes for that time period. It contains no known radioactive constituents. The site has been bulldozed and covered with clean soil.

REFERENCES:

Documents:
Photographs: 122440-450-CN, 122440-451-CN, 122440-153-CN, 129330-1
Drawings: H-6-951

SITE ID NO.: White Bluffs Landfill

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: East White Bluffs Landfill

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 100 ft

Width: 100 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Landfill

ELEVATION:

WATERTABLE:

HRS Migration Score: 7.595

LOCATION: 600 Area

COORDINATES: To be determined

SITE DESCRIPTION:

The site was used to dispose of normal industrial and domestic wastes common for that period. The site has been bulldozed and covered with clean soil.

SERVICE DATES: 1850-1943

SERVICE HISTORY:

REFERENCES:

Documents:

Photographs: 122440-440-CN, 122440-449-CN

Drawings: H-6-951

SITE ID NO.: East White Bluffs Landfill

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: Sodium Dichromate Barrel Disposal Site

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 100 ft

Width: 50 ft

Depth: 10 ft

Diameter:

FACILITY: Landfill

ELEVATION:

WATERTABLE:

HRS Migration Score: 4.431

LOCATION: 600 Area

COORDINATES: To be determined

SITE DESCRIPTION:

An area 100 feet by 50 feet used to dispose of empty crushed sodium dichromate barrels. The site is located between 100-D and 100-H Areas, 200 yards north of an old access between 100-D East Badgehouse and 100-H Badgehouse.

SERVICE DATES: 1945-1945

SERVICE HISTORY:

REFERENCES:

Documents:

Photographs: 122440-457-CN, 122440-458-CN

Drawings: H-6-951

SITE ID NO.: Sodium Dichromate Barrel Disposal Site

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: Hanford Trailer Camp Landfill

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 100 ft

Width: 100 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Landfill

ELEVATION:

WATERTABLE:

HRS Migration Score: 3.675

LOCATION: 600 Area

COORDINATES: To be determined

SITE DESCRIPTION:

A landfill 100 feet by 100 feet south of the old construction camp between Route 2 North and the old swimming pond.

SERVICE DATES: 1943-1945

SERVICE HISTORY:

The landfill was used for typical domestic wastes used during construction of the Hanford facilities. The site has been bulldozed and covered with clean soil.

REFERENCES:

Documents:

Photographs: 122440-439-CN, 122440-440-CN, 122440-441-CN, 129124-4

Drawings: H-6-951

SITE ID NO.: Hanford Trailer Camp Landfill

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: White Bluffs Pickling Acid Crib

ALIAS: None

STATUS: Inactive

DIMENSIONS:

Length: 50 ft

Width: 30 ft

Depth: 10 ft

Diameter: 0 ft

FACILITY: Crib

ELEVATION:

WATERTABLE:

HRS Migration Score:35.494

LOCATION: 600 Area

COORDINATES: To be determined

SITE DESCRIPTION:

A crib type structure 50 feet by 30 feet and 10 feet deep located 500 yards from the old White Bluffs Ice Plant and 300 yards east of Federal Avenue. Vent pipes extrude every 18 inches at the surface.

SERVICE DATES: 1943-1945

SERVICE HISTORY:

The site was used to pickle galvanized piping for use in the reactor buildings during construction. The process used several thousand gallons of nitric and hydrofluoric acid. The site was retired in 1945 and the surface was covered with large cobbles.

REFERENCES:

Documents:

Photographs: 122440-454-CN, 122440-455-CN, 122440-456-CN

Drawings: H-6-951

SITE ID NO.: White Bluffs Pickling Acid Crib

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: Hanford Townsite Landfill

ALIAS: None
STATUS: Inactive
DIMENSIONS:

Length: 200 ft
Width: 200 ft
Depth: 20 ft
Diameter: 0 ft

FACILITY: Landfill
ELEVATION:
WATERTABLE:
HRS Migration Score: 7.725

LOCATION: 600 Area
COORDINATES: To be determined

SITE DESCRIPTION:

An unlined excavation 200 feet by 200 feet south of the Hanford Construction Camp between Route 2 South and the Hanford Swimming Pond in the horseshoe bend of the irrigation canal.

SERVICE DATES: 1850-1943

SERVICE HISTORY:

The site was used to dispose of normal industrial and domestic wastes common for the period. The site has since been backfilled and covered with clean soil.

REFERENCES:

Documents:
Photographs: 122440-435-CN, 122440-466-CN, 129330-3
Drawings: H-6-951

SITE ID NO.: Hanford Townsite Landfill

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not used to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

SITE ID NO.: Riverland Railroad Car Wash Pit

ALIAS: None

STATUS:

DIMENSIONS:

Length: 40 ft

Width: 6 ft

Depth: 3 ft

Diameter:

FACILITY: Pit

ELEVATION:

WATERTABLE: 185 ft

HRS Migration Score:23.699

LOCATION: 600 Area

COORDINATES: N65695/W102025, N65870/W102000 (Endpoints of Pit)

SITE DESCRIPTION:

The Riverland Railroad Station is located 5 miles west of State Highway 240 and 1.3 miles southwest of the Vernita Bridge. Site is trench like in appearance 40 feet by 6 feet and approximately 3 feet deep.

SERVICE DATES:

SERVICE HISTORY:

In the 1940's this site was used as a steam cleaning and low level decontamination station for locomotive engines and cars used at Hanford. In 1963, the entire site was decontaminated, released from radiation zone status, and the building auctioned to the general public.

REFERENCES:

Documents:

Photographs:

Drawings: H-2945, H-6-951

SITE ID NO.: Riverland Railroad Car Wash Pit

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
SR-90:	0.00000	NP-237:	0.00000
Y-91:	0.00000	PU-238:	0.00000
NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

Although used for radioactive waste disposal, no inventory is available.

These values are decayed through April 1, 1986.

1100 AREA ENGINEERED-FACILITY SITES

The following site is included in this section. To locate this site, please refer to the appropriate area map in Appendix B, Volume 1, of this document.

1100 Area

1100 Area Battery Acid Pit

SITE ID NO.: 1100 Area Battery Acid Pit

DIMENSIONS:
Length:
Width:
Depth:
Area:

ELEVATION: 380 feet
WATERTABLE: 45 feet

LOCATION: 1100 Area
COORDINATES:

HRS Migration Score: 38.54

DESCRIPTION OF RELEASE:

A sand pit west of the 1171 Building was used for battery acid disposal.

DATE OF OCCURRENCE: 1954-1977

DESCRIPTION OF WASTE:

An unknown quantity of sulfuric acid.

EXTENT OF CONTAMINATION:

There was no known releases and the quantity of acid disposed of is unknown.

REMEDIAL ACTION:

Periodically, when the sand was saturated, it would be scraped off and new sand added to the pit. Disposal location of the contaminated sand is unknown.

REFERENCES:

Documents: Personal communication from Walt Haerer to Don Elle
Photographs:
Drawings:

SITE ID NO.: 1100 Area Battery Acid Pit

CHEMICALS DISPOSED

No chemical inventory is available.

RADIONUCLIDE INVENTORY
(in curies)

H-3:	0.00000	CE-144:	0.00000
C-14:	0.00000	PR-144:	0.00000
MN-54:	0.00000	PM-147:	0.00000
CO-60:	0.00000	EU-152:	0.00000
NI-63:	0.00000	EU-154:	0.00000
KR-85:	0.00000	EU-155:	0.00000
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NB-95:	0.00000	PU-239:	0.00000
ZR-95:	0.00000	PU-240:	0.00000
TC-99:	0.00000	PU-241:	0.00000
RU-103:	0.00000	AM-241:	0.00000
RU-106:	0.00000	U-233:	0.00000
SN-113:	0.00000	U-235:	0.00000
SB-125:	0.00000	U-238:	0.00000
I-129:	0.00000	TH-232:	0.00000
CS-134:	0.00000	BETA:	0.00000
CS-137:	0.00000	GAMMA:	0.00000
CE-141:	0.00000	ALPHA:	0.00000

This site was not use to deliberately dispose of radioactive waste.

These values are decayed through April 1, 1986.

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