AR TARGET SHEET

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APPENDIX A

DATA EVALUATION AND DATA SUMMARY TABLES

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TERMS

CAS	Chemical Abstract Services Registry Number
D	Duplicate
EB	Equipment Blank
J	Estimate
N	Standard Sample
SS	Split Samples
TB	Trip Blank
U	Undetected
-	Not analyzed
=	Detected

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A1.0 DATA EVALUATION AND DATA SUMMARY TABLES

A1.1 DATA VALIDATION AND QUALITY CONTROL

Data validation was performed and field quality control samples were collected in accordance with the Quality Assurance Project Plan, Appendix A, Section A.2 of the *200-CW-5 U Pond/Z-Ditches Cooling Water Group Operable Unit RI/FS Work Plan* (DOE/RL-99-66).

A1.1.1 Data Validation

Sample delivery group H1765 was validated by an independent contractor. The sample delivery group consist of two samples from borehole C3808 that were submitted to the laboratory for chemical and radiochemical analysis. The two samples were collected 6.8 and 16 meters (m) (22.5 and 52.5 feet) below ground surface (bgs). The chemical and radiological analytical data packages were validated according to *Data Validation Procedure for Chemical Analysis* (BHI-01435) and *Data Validation Procedure for Radiochemical Analysis* (BHI-01433 2000) Level C methods.

The following deficiencies were noted during validation:

Inorganics/Metals. The validation reports (Tech Law 2002a – 2002g) noted no major deficiencies during analyses of contaminants of concern (COCs) for the site. Minor deficiencies included sulfide and zinc results being qualified as estimates and flagged as "J." These minor deficiencies still allow the data to be used for decision-making purposes.

Radiochemistry. The validation reports (Tech Law 2002a – 2002g) noted no major deficiencies during analyses of COCs for the site. Minor deficiencies included a description of analytes with minimum detectable activity (MDAs) greater than their reliable detection levels (RDLs). These minor deficiencies still allow the data to be used for decision-making purposes.

Nonradionuclides. The validation reports (Tech Law 2002a – 2002g) noted no major or minor deficiencies during analyses of COCs for the site.

Minor deficiencies included a description of analytes with MDAs greater than their RDLs. Minor deficiencies also resulted in some samples being flagged as "J." Because of laboratory blank contamination, the methylene chloride results in all samples were qualified as undetected and flagged as "U." These minor deficiencies still allow the data to be used for decision-making purposes.

Minor deficiencies also included reporting of laboratory blank contamination and acetone results being qualified as undetected and flagged as "U."

All of the qualifiers added as a result of the validation process are reflected in the Tables A-1 to A-7 and will be entered into the Hanford Environmental Information System database. Note that data collected from the 216-Z-1D and 216-Z-19 Ditches are included in the data tables.

A1.1.2 Quality Control

Quality control samples were collected to evaluate the potential of cross-contamination and laboratory performance in accordance with the Quality Assurance Project Plan, Appendix A of DOE-RL-99-66. Three trip blanks and one equipment rinsate blank were collected during the activity.

The trip blanks were analyzed only for volatile organic compounds (VOCs). Acetone (4.0 mg/kg) was the only compound detected in the trip blank submitted for analysis. However, this compound also was detected in laboratory blanks and is likely the result of laboratory cross-contamination.

The following contaminants were detected in the equipment blank:

Contaminants of concern:

- Silver
- Zinc
- Copper
- Barium
- Bis (2-ethyhexyl) phthalate

Not contaminants of concern:

- Boron
- Carbon disulfide
- Diethylphthalate
- Di-n-butylphthalate
- Magnesium
- Manganese
- Nitrate/Nitrite

Historical data from two other 200-CW-5 OU waste sites (the 216-U-10 Pond and 216-U-14 Ditch) are included in this appendix. The data were collected prior to calendar year 2002. The *Data Quality Objectives Summary Report for the 200-CW-5 U Pond/Z Ditches System Waste Sites* (BHI 01294) indicates that characterization data previously obtained from these sites are of sufficient quality to support the 200-CW-5 remedial investigation/feasibility study (RI/FS) process. Therefore, the analytical data from the 216-U-10 Pond and 216-U-14 Ditch are deemed acceptable for RI/FS decision-making purposes. These data are presented in Tables A-8 and A-20, respectively.

A2.0 REFERENCES

BHI-01294, 1999, *Data Quality Objective Summary Report for the 200-CW-5 U Pond/Z-Ditches System Waste Sites* (), Rev. 0, Bechtel Hanford, Inc., Richland, Washington, Richland Operations Office, Richland, Washington.

BHI-01433, 2000, *Data Validation Procedure for Radiochemical Analysis*, Rev. 0, Bechtel Hanford, Inc., Richland, Washington.

BHI-01435, 2000, *Data Validation Procedure for Chemical Analysis*, Rev. 0, Bechtel Hanford, Inc., Richland, Washington.

DOE-RL-99-662000, *200-CW-5 U Pond/Z-Ditches Cooling Water Group Operable Unit RI/FS Work Plan* Rev. 0, U.S. Department of Energy, Richland Operations Office, Richland, Washington.

Tech Law, 2002a, Data Package No. H1764-LLI (SDG No. H1764), "Wet Chemistry," Tech Law, Inc., Richland, Washington.

Tech Law, 2002b, Data Package No. H1764-LLI (SDG No. H1764), "Semivolatile," Tech Law, Inc., Richland, Washington.

Tech Law, 2002c, Data Package No. H1764-LLI (SDG No. H1764), "Inorganics," Tech Law, Inc., Richland, Washington.

Tech Law, 2002d, Data Package No. H1764-LLI (SDG No. H1764), "Gasoline & Diesel Range Organics," Tech Law, Inc., Richland, Washington.

Tech Law, 2002e, Data Package No. H1764-ES (SDG No. H1764), "Radiochemistry," Tech Law, Inc., Richland, Washington.

Tech Law, 2002f, Data Package No. H1764-LLI (SDG No. H1764), "PCB," Tech Law, Inc., Richland, Washington.

Tech Law, 2002g, Data Package No. H1764-LLI (SDG No. H1764), "Volatile," Tech Law, Inc., Richland, Washington.

Table A-1. 216-Z-11 Ditch Area General Chemistry Analytical Data.

Well Name	Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Ammonia (mg/kg)	Fluoride (mg/kg)	Hydrazine (mg/kg)	Kerosene (mg/kg)	Nitrate (mg/kg)	Nitrite (mg/kg)	Nitrogen in Nitrite and Nitrate (mg/kg)	Sulfate (mg/kg)	Sulfide (mg/kg)
					CAS Number								
					7664-41-7	16984-48-8	302-01-2	8008-20-6	14797-55-8	--	--	14808-79-8	18496-25-8
216-Z-11 Ditch													
C3808	2.5-5	B14DJ8	N	23-Apr-02	3.5U	1.3U	1.0U	0.012U	24=	--	5.3=	4.2=	21 U
C3808	10-12.5	B14DK4	N	24-Apr-02	5.1=	1.5=	1.1U	--	43=	43=	7.7=	29=	42 U
C3808	12.5-15	B14DK5	N	25-Apr-02	8.2=	1.7=	--	0.013U	33=	33=	7.4=	24=	22 U
C3808	12.5-15	B14DK9	D	25-Apr-02	4.6=	1.6=	--	0.013U	48=	48=	6.2=	32=	21 U
C3808	12.5-15	B14DL0	S	25-Apr-02	0.16U	0.33U	--	--	26=	--	11=	35=	7.5 U
C3808	15-17.5	B14DK8	N	25-Apr-02	7.2=	1.3U	--	0.013U	23=	23=	5.2=	13=	21 U
C3808	22.5-25	B14DL1	N	1-May-02	7.3=	1.3U	--	12U	16=	--	3.5=	10=	32 U
C3808	50-52.5	B14DL2	N	3-May-02	3.3=	1.3U	--	13U	9.3=	--	2.2=	2.8=	34 U
C3808	99.5-102	B14DL3	N	7-May-02	4.3=	1.4U	--	12U	1.4U	--	0.20U	2.2=	41 U
C3808	112-114.7	B14DL4	N	8-May-02	3.3U	1.3U	--	12U	1.4U	--	0.22U	2.6=	23 U
C3808	152-154.5	B14DL5	N	10-May-02	3.0U	1.3U	--	12U	1.3U	--	0.22U	10=	21 U
C3808	199.8-202	B14DL6	N	15-May-02	4.0=	1.3U	--	12U	1.3U	--	0.20U	29=	25 U
C3808	220.7-223	B14KC7	N	17-May-02	85=	1.4U	--	12U	2.4=	--	0.70=	3.8=	23 U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-2a. 216-Z-11 Ditch Area Inorganic (Metals) Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Boron (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Hexavalent Chromium (mg/kg)	Lead (mg/kg)	Lithium (mg/kg)
				CAS Number									
				7440-38-2	7440-39-3	7440-41-7	7440-42-8	7440-43-9	7440-47-3	7440-50-8	18540-29-9	743-99-2	7439-93-2
216-Z-11 Ditch													
2.5-5	B14DJ8	N	4/23/02	3.7=	78=	0.22=	1.3=	0.050=	8.9=	14=	0.43U	7.1=	0.63=
7.5-10	B14DK3-A	N	4/24/02	19U	88=	0.97U	24=	0.97U	11=	30=	--	19U	--
10-12.5	B14DK4	N	4/24/02	6.2=	0.92=	0.25=	0.92=	0.030U	10=	22=	0.46U	6.4=	--
12.5-15	B14DK5	N	4/25/02	5.2=	0.77=	0.23=	0.77=	0.030U	8.7=	15=	0.54=	5.8=	--
12.5-15	B14DK9	D	4/25/02	5.1=	85=	0.22=	0.63=	0.030U	10=	14=	0.42U	5.7=	--
12.5-15	B14DL0	S	4/25/02	3.9=	84=	0.22B	0.58U	0.29U	8.2=	13=	0.28U	3.4=	--
15-17.5	B14DK8	N	4/25/02	3.4=	0.68=	0.14=	0.68=	0.060=	7.2=	14=	0.46=	3.8=	--
22.5-25	B14DL1	N	5/1/02	2.3=	58=	0.14=	0.34=	0.020U	5.5=	12=	0.41U	2.4=	--
50-52.5	B14DL2	N	5/3/02	2.6=	96=	0.31=	0.81=	0.030U	6.3=	12=	0.47=	3.5=	--
99.5-102	B14DL3	N	5/7/02	6.8=	80=	0.35=	2.5=	0.030U	19=	13=	1.9=	5.8=	--
112-114.7	B14DL4	N	5/8/02	4.9=	0.40=	0.49=	0.40=	0.030U	12=	13=	0.43U	5.8=	--
152-154.5	B14DL5	N	5/10/02	1.9=	0.21=	0.84=	0.21=	0.030U	10=	14=	0.42U	3.3=	--
199.8-202	B14DL6	N	5/15/02	1.0=	117=	0.79=	0.32=	0.20=	19=	11=	0.41U	2.4=	--
220.7-223	B14KC7	N	5/17/02	0.57=	54=	0.29=	0.15U	0.030U	10=	8.6=	0.44U	2.0=	--

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-2b. 216-Z-11 Ditch Area Inorganic (Metals) Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Magnesium (mg/kg)	Manganese (mg/kg)	Mercury (mg/kg)	Molybdenum (mg/kg)	Nickel (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
				CAS Number								
				7439-95-4	7439-96-5	743-99-7	7439-98-7	744-00-2	778-24-9	744-02-2	744-06-2	744-06-6
216-Z-11 Ditch												
2.5-5	B14DJ8	N	4/23/02	4,200=	348=	0.020U	0.63=	9.9=	0.38U	0.050U	57=	45=
7.5-10	B14DK3-A	N	4/24/02	4,740=	333=	0.66=	9.7U	10=	19U	1.9U	50=	63=
10-12.5	B14DK4	N	4/24/02	4,600=	365=	0.080=	0.77=	11=	0.39U	0.69=	50=	49=
12.5-15	B14DK5	N	4/25/02	4,760=	365=	0.020U	0.65=	9.7=	0.36U	0.050U	58=	47=
12.5-15	B14DK9	D	4/25/02	4,910=	363=	0.020=	0.69=	11=	0.34U	0.080=	59=	47=
12.5-15	B14DL0	S	4/25/02	4,140=	328=	0.031B	0.63U	9.1=	0.21U	0.67U	49=	39C
15-17.5	B14DK8	N	4/25/02	4,080=	299=	0.020U	0.64=	8.3=	0.30U	0.060=	59=	42=
22.5-25	B14DL1	N	5/1/02	3,200=	252=	0.020U	0.59=	7.1=	0.28U	0.040U	56=	36=
50-52.5	B14DL2	N	5/3/02	4,030=	397=	0.020U	0.74=	7.3=	0.34U	0.050U	79=	46=
99.5-102	B14DL3	N	5/7/02	5,430=	326=	0.020U	0.57=	15=	0.39U	0.060U	40=	40=
112-114.7	B14DL4	N	5/8/02	4,560=	338=	0.020U	0.56=	11=	0.36U	0.050U	31=	37=
152-154.5	B14DL5	N	5/10/02	3,430=	263=	0.020U	0.82=	9.6=	0.37U	0.050U	52=	37=
199.8-202	B14DL6	N	5/15/02	2,890=	254=	0.020U	0.69=	15=	0.36U	0.050U	52=	30=
220.7-223	B14KC7	N	5/17/02	2,360=	217=	0.020U	0.72=	11=	0.37U	0.050U	20=	22=

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
= Detected

Table A-3a. 216-Z-11 Ditch Area PCBs and Pesticides Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Aldrin (mg/kg)	Alpha-BHC (mg/kg)	Alpha-Chlordane (mg/kg)	Aroclor-1016 (mg/kg)	Aroclor-1221 (mg/kg)	Aroclor-1232 (mg/kg)	Aroclor-1242 (mg/kg)	Aroclor-1248 (mg/kg)	Aroclor-1254 (mg/kg)	Aroclor-1260 (mg/kg)
				CAS Number									
				309-00-2	319-84-6	5103-71-9	12674-11-2	11104-28-2	11141-16-5	53469-21-9	12672-29-6	11097-69-1	11096-82-5
216-Z-11 Ditch													
2.5-5	B14DJ8	N	4/23/02	0.0017U	0.0017U	0.0017U	0.036U	0.072U	0.036U	0.036U	0.036U	0.036U	0.036U
7.5-10	B14DK3-A	N	4/24/02	--	--	--	56U	344U	317U	179U	18U	52=	78=
10-12.5	B14DK4	N	4/24/02	--	--	--	0.038U	0.076U	0.038U	0.038U	0.038U	0.038U	0.038U
12.5-15	B14DK5	N	4/25/02	--	--	--	0.036U	0.071U	0.036U	0.036U	0.036U	0.036U	0.036U
12.5-15	B14DK9	D	4/25/02	--	--	--	0.035U	0.071U	0.035U	0.035U	0.035U	0.035U	0.035U
12.5-15	B14DL0	S	4/25/02	--	--	--	0.013U	0.013U	0.013U	0.013U	0.013U	0.0077U	0.0077U
15-17.5	B14DK8	N	4/25/02	--	--	--	0.035U	0.069U	0.035U	0.035U	0.035U	0.035U	0.035U
22.5-25	B14DL1	N	5/1/02	--	--	--	0.034U	0.069U	0.034U	0.034U	0.034U	0.034U	0.034U
50-52.5	B14DL2	N	5/3/02	--	--	--	0.035U	0.071U	0.035U	0.035U	0.035U	0.035U	0.035U
99.5-102	B14DL3	N	5/7/02	--	--	--	0.033U	0.067U	0.033U	0.033U	0.033U	0.033U	0.033U
112-114.7	B14DL4	N	5/8/02	--	--	--	0.036U	0.072U	0.036U	0.036U	0.036U	0.036U	0.036U
152-154.5	B14DL5	N	5/10/02	--	--	--	0.035U	0.070U	0.035U	0.035U	0.035U	0.035U	0.035U
199.8-202	B14DL6	N	5/15/02	--	--	--	0.034U	0.068U	0.034U	0.034U	0.034U	0.034U	0.034U
220.7-223	B14KC7	N	5/17/02	--	--	--	0.037U	0.074U	0.037U	0.037U	0.037U	0.037U	0.037U

BHC = benzene hexachloride
CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed

Table A-3b. 216-Z-11 Ditch Area PCBs and Pesticides Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Beta-BHC (mg/kg)	Delta-BHC (mg/kg)	Dichloro-diphenyl-dichloro-ethane (mg/kg)	Dichloro-diphenyl-dichloro-ethylene (mg/kg)	Dichloro-diphenyl-trichloro-ethane (mg/kg)	Dieldrin (mg/kg)	Endo-sulfan I (mg/kg)	Endo-sulfan II (mg/kg)	Endo-sulfan sulfate (mg/kg)	Endrin aldehyde (mg/kg)
				CAS Number									
				319-85-7	319-86-8	--	--	--	60-57-1	959-98-8	33213-65-9	1031-07-8	72-20-8
216-Z-11 Ditch													
2.5-5	B14DJ8	N	4/23/02	0.0017U	0.0017U	0.0033U	0.0033U	0.0033U	0.0033U	0.0017U	0.0033U	0.0033U	0.0033U

BHC = Benzene hexachloride
CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
\- Not analyzed

Table A-3c. 216-Z-11 Ditch Area PCBs and Pesticides Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Endrin (mg/kg)	Gamma-BHC (Lindane) (mg/kg)	Gamma-Chlordane (mg/kg)	Heptachlor epoxide (mg/kg)	Heptachlor (mg/kg)	Isodrin (mg/kg)	Kepone (mg/kg)	Methoxychlor (mg/kg)	Toxaphene (mg/kg)
				CAS Number								
				7421-93-4	58-89-9	12789-03-6	76-44-8	1024-57-3	465-73-6	143-50-0	72-43-5	8001-35-2
216-Z-11 Ditch												
2.5-5	B14DJ8	N	4/23/02	0.0033U	0.0017U	0.0017U	0.0017U	0.0017U	0.0033U	0.017U	0.017U	0.17U

BHC = Benzene hexachloride
CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control

Table A-4a. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Carbon-14 (pCi/g)	Carbon-14, Decayed (pCi/g)	Cerium-139 (pCi/g)	Cerium-139, Decayed (pCi/g)	Cesium-134 (pCi/g)	Cesium-134, Decayed (pCi/g)
				CAS Number									
				14596-10-2	14596-10-2	14234-35-6	14234-35-6	14762-75-5	14762-75-5	--	--	13967-70-9	13967-70-9
216-Z-11 Ditch													
3.9-3.9	299-W18-189 (3.9-3.9)	N	1981	120=	116=	--	--	--	--	--	--	--	--
3-3	299-W18-189 (3-3)	N	1981	55=	53=	--	--	--	--	--	--	--	--
3-3.9	299-W18-189 (3-3.9)	N	1981	520=	503=	--	--	--	--	--	--	--	--
4.9-4.9	299-W18-189 (4.9-4.9)	N	1981	4.7=	4.5=	--	--	--	--	--	--	--	--
5.9-5.9	299-W18-189 (5.9-5.9)	N	1981	0.30=	0.29=	--	--	--	--	--	--	--	--
216-Z-11 Ditch													
20-20	299-W18-193 (20-20)	N	1981	0.026=	0.025=	--	--	--	--	--	--	--	--
3.9-3.9	299-W18-193 (3.9-3.9)	N	1981	96=	93=	--	--	--	--	--	--	--	--
216-Z-11 Ditch													
16.1-16.1	299-W18-194 (16.1-16.1)	N	1981	0.019=	0.018=	--	--	--	--	--	--	--	--
2-2	299-W18-194 (2-2)	N	1981	1.6=	1.5=	--	--	--	--	--	--	--	--
3.9-3.9	299-W18-194 (3.9-3.9)	N	1981	2.4=	2.3=	--	--	--	--	--	--	--	--
3-3	299-W18-194 (3-3)	N	1981	3,200=	3,094=	--	--	--	--	--	--	--	--
216-Z-11 Ditch													
10.8-11.2	299-W18-195 (10.8-11.2)	N	1981	22=	21=	--	--	--	--	--	--	--	--
12.8-13.1	299-W18-195 (12.8-13.1)	N	1981	1.5=	1.5=	--	--	--	--	--	--	--	--
2.6-2.6	299-W18-195 (2.6-2.6)	N	1981	190=	184=	--	--	--	--	--	--	--	--
8.2-8.5	299-W18-195 (8.2-8.5)	N	1981	410=	396=	--	--	--	--	--	--	--	--
8.5-9.5	299-W18-195 (8.5-9.5)	N	1981	48=	46=	--	--	--	--	--	--	--	--

Table A-4a. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Carbon-14 (pCi/g)	Carbon-14, Decayed (pCi/g)	Cerium-139 (pCi/g)	Cerium-139, Decayed (pCi/g)	Cesium-134 (pCi/g)	Cesium-134, Decayed (pCi/g)
				CAS Number									
				14596-10-2	14596-10-2	14234-35-6	14234-35-6	14762-75-5	14762-75-5	--	--	13967-70-9	13967-70-9
216-Z-11 Ditch													
2.5-5	B14DJ8	N	4/23/02	0.31J	0.31J	0.05U	0.05U	-7.51E-01U	-7.51E-01U	--	--	0.033U	0.033U
7.5-8.0	B14DJ9	N	4/24/02	10.0=	10.0=	--	--	--	--	--	--	--	--
8.0-8.5	B14DK0	N	4/24/02	468=	468=	--	--	--	--	--	--	--	--
8.5-9.0	B14DK1	N	4/24/02	0.68J	0.68J	--	--	--	--	--	--	--	--
9.0-9.5	B14DK2	N	4/24/02	30=	30=	--	--	--	--	--	--	--	--
9.5-10	B14JC5	N	4/24/02	0.51J	0.51J	--	--	--	--	--	--	--	--
7.5-10	B14DK3	N	4/24/02	649=	649=	0.56U	0.56U	--	--	--	--	--U	--U
10-12.5	B14DK4	N	4/24/02	259=	259=	0.45U	0.45U	--	--	--	--	--U	--U
10-12.5	B14DK6	D	4/24/02	387=	387=	0.53U	0.53U	--	--	--	--	--U	--U
10-12.5	B14DK7	S	4/24/02	310=	310=	--	--	--	--	--	--	--	--
10-10.5	B14JC6	N	4/24/02	0.34J	0.34J	--	--	--	--	--	--	--	--
10.5-11	B14JC7	N	4/24/02	0.27J	0.27J	--	--	--	--	--	--	--	--
11-11.5	B14JC8	N	4/24/02	0.19U	0.19U	--	--	--	--	--	--	--	--
11.5-12	B14JC9	N	4/24/02	3.8=	3.8=	--	--	--	--	--	--	--	--
12-12.5	B14JD1	N	4/25/02	919=	919=	--	--	--	--	--	--	--	--
12.5-15	B14DK5	N	4/25/02	11=	11=	0.12U	0.12U	--	--	--	--	0.066U	0.066U
15-17.5	B14DK8	N	4/25/02	8.0=	8.0=	0.064U	0.064U	--	--	--	--	0.035U	0.035U
22.5-25	B14DL1	N	5/1/02	0.017U	0.017U	0.054U	0.054U	0.86U	0.86U	--	--	0.032U	0.032U
50-52.5	B14DL2	N	5/3/02	-2.20E-02U	-2.20E-02U	0.041U	0.041U	1.2U	1.2U	--	--	0.025U	0.025U
99.5-102	B14DL3	N	5/7/02	0.052U	0.052U	--	--	0.30U	0.30U	--	--	0.054U	0.054U
112-114.7	B14DL4	N	5/8/02	0.052U	0.052U	--	--	0.98U	0.98U	--	--	0.048U	0.048U
152-154.5	B14DL5	N	5/10/02	0U	0U	--	--	0.61U	0.61U	--	--	0.03U	0.03U
199.8-202	B14DL6	N	5/15/02	0U	0U	--	--	0.54U	0.54U	--	--	--U	--U
220.7-223	B14KC7	N	5/17/02	0.21J	0.21J	--	--	-5.36E-01U	-5.36E-01U	--	--	--U	--U

Table A-4a. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Carbon-14 (pCi/g)	Carbon-14, Decayed (pCi/g)	Cerium-139 (pCi/g)	Cerium-139, Decayed (pCi/g)	Cesium-134 (pCi/g)	Cesium-134, Decayed (pCi/g)
				CAS Number									
				14596-10-2	14596-10-2	14234-35-6	14234-35-6	14762-75-5	14762-75-5	--	--	13967-70-9	13967-70-9
216-Z-19 Ditch													
4-4	-200	N	5/1979	9,500=	9,156=	--	--	--	--	--	--	--	--
4-4	-100	N	5/1979	9,200=	8,867=	--	--	--	--	--	--	--	--
4-4	0	N	5/1979	5,500=	5,301=	--	--	--	--	--	--	--	--
4-4	100	N	5/1979	8,000=	7,711=	--	--	--	--	--	--	--	--
4-4	200	N	5/1979	1,500=	1,446=	--	--	--	--	--	--	--	--
5-5	300	N	5/1979	1,300=	1,253=	--	--	--	--	--	--	--	--
5-5	400	N	5/1979	3,300=	3,181=	--	--	--	--	--	--	--	--
5-5	500	N	5/1979	980=	945=	--	--	--	--	--	--	--	--
6-6	600	N	5/1979	2,300=	2,217=	--	--	--	--	--	--	--	--
6-6	700	N	5/1979	620=	598=	--	--	--	--	--	--	--	--
6-6	800	N	5/1979	1,800=	1,735=	--	--	--	--	--	--	--	--
6-6	900	N	5/1979	530=	511=	--	--	--	--	--	--	--	--
6-6	1000	N	5/1979	390=	376=	--	--	--	--	--	--	--	--
216-Z-19 Ditch													
2.2-2.5	1-A (2.2-2.5)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--
2.5-3	1-A (2.5-3)	N	5/1979	0.40=	0.39=	--	--	--	--	--	--	--	--
2-2.2	1-A (2-2.2)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--
3.5-3.7	1-B (3.5-3.7)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--
3.7-4	1-B (3.7-4)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--
4-4.5	1-B (4-4.5)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--
5.7-6	1-C (5.7-6)	N	5/1979	30=	29=	--	--	--	--	--	--	--	--
5-5.2	1-C (5-5.2)	N	5/1979	120=	116=	--	--	--	--	--	--	--	--
3.5-3.7	1-D (3.5-3.7)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
3.7-4	1-D (3.7-4)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--

Table A-4a. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Carbon-14 (pCi/g)	Carbon-14, Decayed (pCi/g)	Cerium-139 (pCi/g)	Cerium-139, Decayed (pCi/g)	Cesium-134 (pCi/g)	Cesium-134, Decayed (pCi/g)
				CAS Number									
				14596-10-2	14596-10-2	14234-35-6	14234-35-6	14762-75-5	14762-75-5	--	--	13967-70-9	13967-70-9
4-4.5	1-D (4-4.5)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
2.2-2.5	1-E (2.2-2.5)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
2.5-3	1-E (2.5-3)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
2-2.2	1-E (2-2.2)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
4.3-5	1-E (4.3-5)	N	5/1979	0.34=	0.33=	--	--	--	--	--	--	--	--
2.2-2.5	1-F (2.2-2.5)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
2.5-3	1-F (2.5-3)	N	5/1979	0.50=	0.48=	--	--	--	--	--	--	--	--
2-2.2	1-F (2-2.2)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
2.2-2.5	1-G (2.2-2.5)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
2.5-3	1-G (2.5-3)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
2-2.2	1-G (2-2.2)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
3.2-3.5	2-A (3.2-3.5)	N	5/1979	64=	62=	--	--	--	--	--	--	--	--
3.5-4	2-A (3.5-4)	N	5/1979	1.6=	1.5=	--	--	--	--	--	--	--	--
3-3.2	2-A (3-3.2)	N	5/1979	64=	62=	--	--	--	--	--	--	--	--
4.3-5	2-A (4.3-5)	N	5/1979	3.1=	3.0=	--	--	--	--	--	--	--	--
4.5-4.7	2-B (4.5-4.7)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--
4.7-5	2-B (4.7-5)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--
5-5.5	2-B (5-5.5)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
6.2-7	2-C (6.2-7)	N	5/1979	140=	135=	--	--	--	--	--	--	--	--
6-6.2	2-C (6-6.2)	N	5/1979	230=	222=	--	--	--	--	--	--	--	--
4.5-4.7	2-D (4.5-4.7)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
4.7-5	2-D (4.7-5)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
5-5.5	2-D (5-5.5)	N	5/1979	0.50=	0.48=	--	--	--	--	--	--	--	--
3.2-3.5	2-E (3.2-3.5)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
3.5-4	2-E (3.5-4)	N	5/1979	0.40=	0.39=	--	--	--	--	--	--	--	--

Table A-4a. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Carbon-14 (pCi/g)	Carbon-14, Decayed (pCi/g)	Cerium-139 (pCi/g)	Cerium-139, Decayed (pCi/g)	Cesium-134 (pCi/g)	Cesium-134, Decayed (pCi/g)
				CAS Number									
				14596-10-2	14596-10-2	14234-35-6	14234-35-6	14762-75-5	14762-75-5	--	--	13967-70-9	13967-70-9
3-3.2	2-E (3-3.2)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
4.3-5	2-E (4.3-5)	N	5/1979	0.79=	0.76=	--	--	--	--	--	--	--	--
3.2-3.5	2-F (3.2-3.5)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
3.5-4	2-F (3.5-4)	N	5/1979	0.50=	0.48=	--	--	--	--	--	--	--	--
3-3.2	2-F (3-3.2)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
3.2-3.5	2-G (3.2-3.5)	N	5/1979	21=	20=	--	--	--	--	--	--	--	--
3.5-4	2-G (3.5-4)	N	5/1979	0.50=	0.48=	--	--	--	--	--	--	--	--
3-3.2	2-G (3-3.2)	N	5/1979	21=	20=	--	--	--	--	--	--	--	--
4.2-4.5	3-A (4.2-4.5)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
4.5-5	3-A (4.5-5)	N	5/1979	0.40=	0.39=	--	--	--	--	--	--	--	--
4-4.2	3-A (4-4.2)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
5.5-5.7	3-B (5.5-5.7)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
5.7-6	3-B (5.7-6)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
6-6.5	3-B (6-6.5)	N	5/1979	0.40=	0.39=	--	--	--	--	--	--	--	--
7.2-7.5	3-C (7.2-7.5)	N	5/1979	1,600=	1,542=	--	--	--	--	--	--	--	--
7.5-8	3-C (7.5-8)	N	5/1979	330=	318=	--	--	--	--	--	--	--	--
7-7.2	3-C (7-7.2)	N	5/1979	4,400=	4,241=	--	--	--	--	--	--	--	--
8.3-8.7	3-C (8.3-8.7)	N	5/1979	7.4=	7.1=	--	--	--	--	--	--	--	--
8.7-9	3-C (8.7-9)	N	5/1979	3.0=	2.9=	--	--	--	--	--	--	--	--
8-8.3	3-C (8-8.3)	N	5/1979	19=	18=	--	--	--	--	--	--	--	--
9-9.1	3-C (9-9.1)	N	5/1979	1.1=	1.1=	--	--	--	--	--	--	--	--
5.5-5.7	3-D (5.5-5.7)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
5.7-6	3-D (5.7-6)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
6-6.5	3-D (6-6.5)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--
4.2-4.5	3-E (4.2-4.5)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--

Table A-4a. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Carbon-14 (pCi/g)	Carbon-14, Decayed (pCi/g)	Cerium-139 (pCi/g)	Cerium-139, Decayed (pCi/g)	Cesium-134 (pCi/g)	Cesium-134, Decayed (pCi/g)
				CAS Number									
				14596-10-2	14596-10-2	14234-35-6	14234-35-6	14762-75-5	14762-75-5	--	--	13967-70-9	13967-70-9
4.5-5	3-E (4.5-5)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
4-4.2	3-E (4-4.2)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--
5.3-6	3-E (5.3-6)	N	5/1979	2.7=	2.6=	--	--	--	--	--	--	--	--
4.2-4.5	3-F (4.2-4.5)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--
4.5-5	3-F (4.5-5)	N	5/1979	0.50=	0.48=	--	--	--	--	--	--	--	--
4-4.2	3-F (4-4.2)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--
4.2-4.5	3-G (4.2-4.5)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
4.5-5	3-G (4.5-5)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
4-4.2	3-G (4-4.2)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
4.2-4.5	4-A (4.2-4.5)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--
4.5-5	4-A (4.5-5)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--
4-4.2	4-A (4-4.2)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--
5.5-5.7	4-B (5.5-5.7)	N	5/1979	0.10=	0.096=	--	--	--	--	--	--	--	--
5.7-6	4-B (5.7-6)	N	5/1979	0.10=	0.096=	--	--	--	--	--	--	--	--
6-6.5	4-B (6-6.5)	N	5/1979	0.10=	0.096=	--	--	--	--	--	--	--	--
7-7.2	4-C (7-7.2)	N	5/1979	500=	482=	--	--	--	--	--	--	--	--
9.6-9.8	4-C (9.6-9.8)	N	5/1979	0.43=	0.41=	--	--	--	--	--	--	--	--
5.5-5.7	4-D (5.5-5.7)	N	5/1979	0.11=	0.11=	--	--	--	--	--	--	--	--
5.7-6	4-D (5.7-6)	N	5/1979	0.11=	0.11=	--	--	--	--	--	--	--	--
6-6.5	4-D (6-6.5)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
4.2-4.5	4-E (4.2-4.5)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
4.5-5	4-E (4.5-5)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
4-4.2	4-E (4-4.2)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
5.3-6	4-E (5.3-6)	N	5/1979	3,500=	3,373=	--	--	--	--	--	--	--	--
4.2-4.5	4-F (4.2-4.5)	N	5/1979	0.50=	0.48=	--	--	--	--	--	--	--	--

Table A-4a. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Carbon-14 (pCi/g)	Carbon-14, Decayed (pCi/g)	Cerium-139 (pCi/g)	Cerium-139, Decayed (pCi/g)	Cesium-134 (pCi/g)	Cesium-134, Decayed (pCi/g)
				CAS Number									
				14596-10-2	14596-10-2	14234-35-6	14234-35-6	14762-75-5	14762-75-5	--	--	13967-70-9	13967-70-9
4.5-5	4-F (4.5-5)	N	5/1979	0.50=	0.48=	--	--	--	--	--	--	--	--
4-4.2	4-F (4-4.2)	N	5/1979	0.50=	0.48=	--	--	--	--	--	--	--	--
4.2-4.5	4-G (4.2-4.5)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--
4.5-5	4-G (4.5-5)	N	5/1979	0.50=	0.48=	--	--	--	--	--	--	--	--
4-4.2	4-G (4-4.2)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--
3.2-3.5	5-A (3.2-3.5)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
3.5-4	5-A (3.5-4)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
3-3.2	5-A (3-3.2)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
4.5-4.7	5-B (4.5-4.7)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--
4.7-5	5-B (4.7-5)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--
5-5.5	5-B (5-5.5)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
6-6.2	5-C (6-6.2)	N	5/1979	3,500=	3,373=	--	--	--	--	--	--	--	--
8.6-9	5-C (8.6-9)	N	5/1979	2.6=	2.5=	--	--	--	--	--	--	--	--
4.5-4.7	5-D (4.5-4.7)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
4.7-5	5-D (4.7-5)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
5-5.5	5-D (5-5.5)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--
3.2-3.5	5-E (3.2-3.5)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--
3.5-4	5-E (3.5-4)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
3-3.2	5-E (3-3.2)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--
4.3-5	5-E (4.3-5)	N	5/1979	28=	27=	--	--	--	--	--	--	--	--
3.2-3.5	5-F (3.2-3.5)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--
3.5-4	5-F (3.5-4)	N	5/1979	0.66=	0.64=	--	--	--	--	--	--	--	--
3-3.2	5-F (3-3.2)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--
3.2-3.5	5-G (3.2-3.5)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
3.5-4	5-G (3.5-4)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--

Table A-4a. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Carbon-14 (pCi/g)	Carbon-14, Decayed (pCi/g)	Cerium-139 (pCi/g)	Cerium-139, Decayed (pCi/g)	Cesium-134 (pCi/g)	Cesium-134, Decayed (pCi/g)
				CAS Number									
				14596-10-2	14596-10-2	14234-35-6	14234-35-6	14762-75-5	14762-75-5	--	--	13967-70-9	13967-70-9
3-3.2	5-G (3-3.2)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
6.2-6.5	6-A (6.2-6.5)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
6.5-7	6-A (6.5-7)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
6-6.2	6-A (6-6.2)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
7.5-7.7	6-B (7.5-7.7)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
7.7-8	6-B (7.7-8)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
8-8.5	6-B (8-8.5)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--
10.6-11	6-C (10.6-11)	N	5/1979	16=	15=	--	--	--	--	--	--	--	--
11.6-12	6-C (11.6-12)	N	5/1979	1.1=	1.1=	--	--	--	--	--	--	--	--
9.7-10	6-C (9.7-10)	N	5/1979	2,800=	2,699=	--	--	--	--	--	--	--	--
9-9.2	6-C (9-9.2)	N	5/1979	1,200=	1,157=	--	--	--	--	--	--	--	--
7.5-7.7	6-D (7.5-7.7)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
7.7-8	6-D (7.7-8)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
8-8.5	6-D (8-8.5)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
6.2-6.5	6-E (6.2-6.5)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--
6.5-7	6-E (6.5-7)	N	5/1979	0.90=	0.87=	--	--	--	--	--	--	--	--
6-6.2	6-E (6-6.2)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--
7.3-8	6-E (7.3-8)	N	5/1979	3.8=	3.7=	--	--	--	--	--	--	--	--
6.2-6.5	6-F (6.2-6.5)	N	5/1979	2.8=	2.7=	--	--	--	--	--	--	--	--
6.5-7	6-F (6.5-7)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
6-6.2	6-F (6-6.2)	N	5/1979	2.8=	2.7=	--	--	--	--	--	--	--	--
6.2-6.5	6-G (6.2-6.5)	N	5/1979	1.3=	1.3=	--	--	--	--	--	--	--	--
6.5-7	6-G (6.5-7)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
6-6.2	6-G (6-6.2)	N	5/1979	1.3=	1.3=	--	--	--	--	--	--	--	--
5.2-5.5	7-A (5.2-5.5)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--

Table A-4a. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Carbon-14 (pCi/g)	Carbon-14, Decayed (pCi/g)	Cerium-139 (pCi/g)	Cerium-139, Decayed (pCi/g)	Cesium-134 (pCi/g)	Cesium-134, Decayed (pCi/g)
				CAS Number									
				14596-10-2	14596-10-2	14234-35-6	14234-35-6	14762-75-5	14762-75-5	--	--	13967-70-9	13967-70-9
5.5-6	7-A (5.5-6)	N	5/1979	5.4=	5.2=	--	--	--	--	--	--	--	--
5-5.2	7-A (5-5.2)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--
6.5-6.7	7-B (6.5-6.7)	N	5/1979	150=	145=	--	--	--	--	--	--	--	--
6.7-7	7-B (6.7-7)	N	5/1979	150=	145=	--	--	--	--	--	--	--	--
7-7.5	7-B (7-7.5)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--
10-10.3	7-C (10-10.3)	N	5/1979	350=	337=	--	--	--	--	--	--	--	--
8.7-9	7-C (8.7-9)	N	5/1979	910=	877=	--	--	--	--	--	--	--	--
8-8.2	7-C (8-8.2)	N	5/1979	1,200=	1,157=	--	--	--	--	--	--	--	--
6.5-6.7	7-D (6.5-6.7)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
6.7-7	7-D (6.7-7)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
7-7.5	7-D (7-7.5)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
5.2-5.5	7-E (5.2-5.5)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
5.5-6	7-E (5.5-6)	N	5/1979	2.0=	1.9=	--	--	--	--	--	--	--	--
5-5.2	7-E (5-5.2)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
6.3-7	7-E (6.3-7)	N	5/1979	1.1=	1.1=	--	--	--	--	--	--	--	--
5.2-5.5	7-F (5.2-5.5)	N	5/1979	1.1=	1.1=	--	--	--	--	--	--	--	--
5.5-6	7-F (5.5-6)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
5-5.2	7-F (5-5.2)	N	5/1979	1.1=	1.1=	--	--	--	--	--	--	--	--
5.2-5.5	7-G (5.2-5.5)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
5.5-6	7-G (5.5-6)	N	5/1979	0.50=	0.48=	--	--	--	--	--	--	--	--
5-5.2	7-G (5-5.2)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
2.2-2.5	8-A (2.2-2.5)	N	5/1979	2.0=	1.9=	--	--	--	--	--	--	--	--
2.5-3	8-A (2.5-3)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
2-2.2	8-A (2-2.2)	N	5/1979	2.0=	1.9=	--	--	--	--	--	--	--	--
3.5-3.7	8-B (3.5-3.7)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--

Table A-4a. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Carbon-14 (pCi/g)	Carbon-14, Decayed (pCi/g)	Cerium-139 (pCi/g)	Cerium-139, Decayed (pCi/g)	Cesium-134 (pCi/g)	Cesium-134, Decayed (pCi/g)
				CAS Number									
				14596-10-2	14596-10-2	14234-35-6	14234-35-6	14762-75-5	14762-75-5	--	--	13967-70-9	13967-70-9
3.7-4	8-B (3.7-4)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
4-4.5	8-B (4-4.5)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
5.7-6	8-C (5.7-6)	N	5/1979	1,300=	1,253=	--	--	--	--	--	--	--	--
5-5.2	8-C (5-5.2)	N	5/1979	29,000=	27,951=	--	--	--	--	--	--	--	--
6.6-6.6	8-C (6.6-6.6)	N	5/1979	35=	34=	--	--	--	--	--	--	--	--
3.5-3.7	8-D (3.5-3.7)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--
3.7-4	8-D (3.7-4)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--
4-4.5	8-D (4-4.5)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--
2.2-2.5	8-E (2.2-2.5)	N	5/1979	130=	125=	--	--	--	--	--	--	--	--
2.5-3	8-E (2.5-3)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--
2-2.2	8-E (2-2.2)	N	5/1979	130=	125=	--	--	--	--	--	--	--	--
3.3-4	8-E (3.3-4)	N	5/1979	--	--	--	--	--	--	--	--	--	--
2.2-2.5	8-F (2.2-2.5)	N	5/1979	6.1=	5.9=	--	--	--	--	--	--	--	--
2.5-3	8-F (2.5-3)	N	5/1979	5.8=	5.6=	--	--	--	--	--	--	--	--
2-2.2	8-F (2-2.2)	N	5/1979	6.1=	5.9=	--	--	--	--	--	--	--	--
2.2-2.5	8-G (2.2-2.5)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
2.5-3	8-G (2.5-3)	N	5/1979	4.7=	4.5=	--	--	--	--	--	--	--	--
2-2.2	8-G (2-2.2)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
4.2-4.5	9-A (4.2-4.5)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
4.5-5	9-A (4.5-5)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--
4-4.2	9-A (4-4.2)	N	5/1979	0.60=	0.58=	--	--	--	--	--	--	--	--
5.3-6	9-A (5.3-6)	N	5/1979	0.46=	0.44=	--	--	--	--	--	--	--	--
5.5-5.7	9-B (5.5-5.7)	N	5/1979	11=	11=	--	--	--	--	--	--	--	--
5.7-6	9-B (5.7-6)	N	5/1979	11=	11=	--	--	--	--	--	--	--	--
6-6.5	9-B (6-6.5)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--

Table A-4a. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Carbon-14 (pCi/g)	Carbon-14, Decayed (pCi/g)	Cerium-139 (pCi/g)	Cerium-139, Decayed (pCi/g)	Cesium-134 (pCi/g)	Cesium-134, Decayed (pCi/g)
				CAS Number									
				14596-10-2	14596-10-2	14234-35-6	14234-35-6	14762-75-5	14762-75-5	--	--	13967-70-9	13967-70-9
7.7-8	9-C (7.7-8)	N	5/1979	26=	25=	--	--	--	--	--	--	--	--
7-7.3	9-C (7-7.3)	N	5/1979	89=	86=	--	--	--	--	--	--	--	--
9.3-9.6	9-C (9.3-9.6)	N	5/1979	12=	12=	--	--	--	--	--	--	--	--
5.5-5.7	9-D (5.5-5.7)	N	5/1979	4.0=	3.9=	--	--	--	--	--	--	--	--
5.7-6	9-D (5.7-6)	N	5/1979	4.0=	3.9=	--	--	--	--	--	--	--	--
6-6.5	9-D (6-6.5)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
4.2-4.5	9-E (4.2-4.5)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
4.5-5	9-E (4.5-5)	N	5/1979	1.0=	0.96=	--	--	--	--	--	--	--	--
4-4.2	9-E (4-4.2)	N	5/1979	0.80=	0.77=	--	--	--	--	--	--	--	--
5.3-6	9-E (5.3-6)	N	5/1979	4,300=	4,144=	--	--	--	--	--	--	--	--
4.2-4.5	9-F (4.2-4.5)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
4.5-5	9-F (4.5-5)	N	5/1979	3.0=	2.9=	--	--	--	--	--	--	--	--
4-4.2	9-F (4-4.2)	N	5/1979	0.70=	0.67=	--	--	--	--	--	--	--	--
4.2-4.5	9-G (4.2-4.5)	N	5/1979	2.7=	2.6=	--	--	--	--	--	--	--	--
4.5-5	9-G (4.5-5)	N	5/1979	0.50=	0.48=	--	--	--	--	--	--	--	--
4-4.2	9-G (4-4.2)	N	5/1979	2.7=	2.6=	--	--	--	--	--	--	--	--
216-Z-1 D Ditch													
7-7	Z-19 Ditch East Bank 100 ft N	N	3/24/76	898=	861=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch East Bank 200 ft S1	N	3/24/76	260=	249=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch Head-1974	N	1974	4,230=	4,045=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch Head-1975	N	1975	610=	584=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch Head-1976	N	1976	780=	748=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch Head-1977	N	1977	38,100=	36,605=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch Near 16th	N	4/21/76	630,000=	604,305=	--	--	--	--	1,4=	1,400=	--	--

Table A-4a. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Carbon-14 (pCi/g)	Carbon-14, Decayed (pCi/g)	Cerium-139 (pCi/g)	Cerium-139, Decayed (pCi/g)	Cesium-134 (pCi/g)	Cesium-134, Decayed (pCi/g)
				CAS Number									
				14596-10-2	14596-10-2	14234-35-6	14234-35-6	14762-75-5	14762-75-5	--	--	13967-70-9	13967-70-9
	Street-27									00			
7-7	Z-19 Ditch NW Bank at U-pond I	N	3/24/76	844=	810=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch Outfall (head)-2787	N	4/21/76	563=	540=	--	--	--	--	0.40=	0.40=	--	--
7-7	Z-19 Ditch U-pond Inlet (delta	N	4/21/76	8.20E+06=	7.87E+06=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch West Bank 500 ft-27	N	3/24/76	2,300=	2,206=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch West Bank Head-2784	N	3/24/76	770=	739=	--	--	--	--	0.12=	0.12=	--	--
7-7	Z-19 Ditch-16th street crossing	N	1979	570=	549=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch-1977	N	1977	38,000=	36,626=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch-231-Z outfall-1979	N	1979	15U	15U	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch-234-5 Outfall-1979	N	1979	166=	160=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch-High-1978	N	1978	6,092=	5,872=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch-inlet to U-pond-197	N	1979	1,270=	1,224=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch-Low-1978	N	1978	20=	19=	--	--	--	--	--	--	--	--
216-Z-1D Ditch													
13.1-13.1	299-W18-188 (13.1-13.1)	N	1981	0.023=	0.022=	--	--	--	--	--	--	--	--
6.9-6.9	299-W18-188 (6.9-6.9)	N	1981	0.50=	0.48=	--	--	--	--	--	--	--	--
7.9-7.9	299-W18-188 (7.9-7.9)	N	1981	33,000=	31,909=	--	--	--	--	--	--	--	--
8.9-8.9	299-W18-188 (8.9-8.9)	N	1981	120=	116=	--	--	--	--	--	--	--	--

Table A-4a. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Carbon-14 (pCi/g)	Carbon-14, Decayed (pCi/g)	Cerium-139 (pCi/g)	Cerium-139, Decayed (pCi/g)	Cesium-134 (pCi/g)	Cesium-134, Decayed (pCi/g)
				CAS Number									
				14596-10-2	14596-10-2	14234-35-6	14234-35-6	14762-75-5	14762-75-5	--	--	13967-70-9	13967-70-9
6.9-6.9	299-W18-188 FD (6.9-6.9)	FD	1981	0.40=	0.39=	--	--	--	--	--	--	--	--
7.9-7.9	299-W18-188 FD (7.9-7.9)	FD	1981	36,000=	34,809=	--	--	--	--	--	--	--	--
10.5-11.2	299-W18-192 (10.5-11.2)	N	1981	11=	11=	--	--	--	--	--	--	--	--
13.1-13.1	299-W18-192 (13.1-13.1)	N	1981	100=	97=	--	--	--	--	--	--	--	--
14.1-14.1	299-W18-192 (14.1-14.1)	N	1981	20=	19=	--	--	--	--	--	--	--	--
20-20	299-W18-192 (20-20)	N	1981	0.010=	0.0097=	--	--	--	--	--	--	--	--
5.9-5.9	299-W18-192 (5.9-5.9)	N	1981	0.30=	0.29=	--	--	--	--	--	--	--	--
6.9-6.9	299-W18-192 (6.9-6.9)	N	1981	7,600=	7,349=	--	--	--	--	--	--	--	--
7.9-7.9	299-W18-192 (7.9-7.9)	N	1981	10=	9.7=	--	--	--	--	--	--	--	--
8.9-8.9	299-W18-192 (8.9-8.9)	N	1981	87=	84=	--	--	--	--	--	--	--	--
9.8-9.8	299-W18-192 (9.8-9.8)	N	1981	7.1=	6.9=	--	--	--	--	--	--	--	--
6.9-6.9	299-W18-192 FD (6.9-6.9)	FD	1981	2.4=	2.3=	--	--	--	--	--	--	--	--
7.9-7.9	299-W18-192 FD (7.9-7.9)	FD	1981	110=	106=	--	--	--	--	--	--	--	--
Adjacent to 216-Z Ditches													
16.1-16.1	299-W15-203 (16.1-16.1)	N	1981	0.019=	0.018=	--	--	--	--	--	--	--	--
5.9-5.9	299-W15-203 (5.9-5.9)	N	1981	0.30=	0.29=	--	--	--	--	--	--	--	--
Adjacent to 216-Z Ditches													
4.9-5.9	299-W15-204 (4.9-5.9)	N	1981	97=	94=	--	--	--	--	--	--	--	--
8.9-8.9	299-W15-204 (8.9-8.9)	N	1981	0.051=	0.049=	--	--	--	--	--	--	--	--

Table A-4a. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Carbon-14 (pCi/g)	Carbon-14, Decayed (pCi/g)	Cerium-139 (pCi/g)	Cerium-139, Decayed (pCi/g)	Cesium-134 (pCi/g)	Cesium-134, Decayed (pCi/g)
				CAS Number									
				14596-10-2	14596-10-2	14234-35-6	14234-35-6	14762-75-5	14762-75-5	--	--	13967-70-9	13967-70-9
Adjacent to 216-Z Ditches													
15.1-15.1	299-W18-177 (15.1-15.1)	N	1981	0.10=	0.097=	--	--	--	--	--	--	--	--
19-19	299-W18-177 (19-19)	N	1981	0.011=	0.011=	--	--	--	--	--	--	--	--
20-20	299-W18-177 (20-20)	N	1981	0.21=	0.20=	--	--	--	--	--	--	--	--
24.9-24.9	299-W18-177 (24.9-24.9)	N	1981	0.075=	0.073=	--	--	--	--	--	--	--	--
29.9-29.9	299-W18-177 (29.9-29.9)	N	1981	0.62=	0.60=	--	--	--	--	--	--	--	--
35.1-35.1	299-W18-177 (35.1-35.1)	N	1981	0.18=	0.17=	--	--	--	--	--	--	--	--
4.9-4.9	299-W18-177 (4.9-4.9)	N	1981	0.31=	0.30=	--	--	--	--	--	--	--	--
40-40	299-W18-177 (40-40)	N	1981	0.61=	0.59=	--	--	--	--	--	--	--	--
45.9-45.9	299-W18-177 (45.9-45.9)	N	1981	0.023=	0.022=	--	--	--	--	--	--	--	--
7.9-7.9	299-W18-177 (7.9-7.9)	N	1981	0.014=	0.014=	--	--	--	--	--	--	--	--
8.9-8.9	299-W18-177 (8.9-8.9)	N	1981	0.58=	0.56=	--	--	--	--	--	--	--	--
Adjacent to 216-Z Ditches													
15.1-15.1	299-W18-178 (15.1-15.1)	N	1981	0.24=	0.23=	--	--	--	--	--	--	--	--
18-18	299-W18-178 (18-18)	N	1981	0.054=	0.052=	--	--	--	--	--	--	--	--
21-21	299-W18-178 (21-21)	N	1981	0.21=	0.20=	--	--	--	--	--	--	--	--
24.9-24.9	299-W18-178 (24.9-24.9)	N	1981	0.15=	0.15=	--	--	--	--	--	--	--	--
29.9-29.9	299-W18-178 (29.9-29.9)	N	1981	0.24=	0.23=	--	--	--	--	--	--	--	--
35.1-35.1	299-W18-178 (35.1-35.1)	N	1981	0.56=	0.54=	--	--	--	--	--	--	--	--

Table A-4a. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Carbon-14 (pCi/g)	Carbon-14, Decayed (pCi/g)	Cerium-139 (pCi/g)	Cerium-139, Decayed (pCi/g)	Cesium-134 (pCi/g)	Cesium-134, Decayed (pCi/g)
				CAS Number									
				14596-10-2	14596-10-2	14234-35-6	14234-35-6	14762-75-5	14762-75-5	--	--	13967-70-9	13967-70-9
4.9-4.9	299-W18-178 (4.9-4.9)	N	1981	0.23=	0.22=	--	--	--	--	--	--	--	--
40-40	299-W18-178 (40-40)	N	1981	0.0072=	0.0070=	--	--	--	--	--	--	--	--
9.8-9.8	299-W18-178 (9.8-9.8)	N	1981	0.21=	0.20=	--	--	--	--	--	--	--	--
Adjacent to 216-Z Ditches													
16.1-17.1	299-W18-186 (16.1-17.1)	N	1981	0.030=	0.029=	--	--	--	--	--	--	--	--
Adjacent to 216-Z Ditches													
16.4-16.4	299-W18-187 (16.4-16.4)	N	1981	0.018=	0.017=	--	--	--	--	--	--	--	--
Adjacent to 216-Z Ditches													
11.2-11.2	299-W18-197 (11.2-11.2)	N	1981	40=	39=	--	--	--	--	--	--	--	--
12.1-12.1	299-W18-197 (12.1-12.1)	N	1981	0.40=	0.39=	--	--	--	--	--	--	--	--
14.1-14.1	299-W18-197 (14.1-14.1)	N	1981	0.062=	0.060=	--	--	--	--	--	--	--	--
9.8-9.8	299-W18-197 (9.8-9.8)	N	1981	140=	135=	--	--	--	--	--	--	--	--
9.8-9.8	299-W18-197 (9.8-9.8) FD	N	1981	170=	164=	--	--	--	--	--	--	--	--
Adjacent to 216-Z Ditches													
12.1-12.1	299-W18-199 (12.1-12.1)	N	1981	0.015=	0.015=	--	--	--	--	--	--	--	--
Adjacent to 216-Z Ditches													
12.1-12.1	299-W18-200 (12.1-12.1)	N	1981	0.020=	0.019=	--	--	--	--	--	--	--	--

Table A-4a. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Carbon-14 (pCi/g)	Carbon-14, Decayed (pCi/g)	Cerium-139 (pCi/g)	Cerium-139, Decayed (pCi/g)	Cesium-134 (pCi/g)	Cesium-134, Decayed (pCi/g)
				CAS Number									
				14596-10-2	14596-10-2	14234-35-6	14234-35-6	14762-75-5	14762-75-5	--	--	13967-70-9	13967-70-9

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-4b. 216-Z-11 Ditch Area Radionuclides Analytical Data. (10 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Curium-242 (pCi/g)	Curium-242, Decayed (pCi/g)	Curium-243/244 (pCi/g)	Curium-243/244, Decayed (pCi/g)	Curium-244 (pCi/g)	Curium-244, Decayed (pCi/g)
				CAS Number									
				10045-97-3	10045-97-3	10198-40-0	10198-40-0	15510-73-3	15510-73-3	--	--	13981-15-2	13981-15-2
216-Z-11 Ditch													
2.5-5	B14DJ8	N	4/23/02	0.12=	0.12=	--U	--U	--	--	0.066U	0.066U	--	--
7.5-8.0	B14DJ9	N	4/24/02	--	--	--	--	--	--	0.020U	0.020U	--	--
8.0-8.5	B14DK0	N	4/24/02	--	--	--	--	--	--	0.71U	0.71U	--	--
8.5-9.0	B14DK1	N	4/24/02	--	--	--	--	--	--	-5.20E-02U	-5.20E-02U	--	--
9.0-9.5	B14DK2	N	4/24/02	--	--	--	--	--	--	0U	0U	--	--
9.5-10	B14JC5	N	4/24/02	--	--	--	--	--	--	0.069U	0.069U	--	--
7.5-10	B14DK3	N	4/24/02	--U	--U	--U	--U	--	--	--	--	--	--
10-12.5	B14DK4	N	4/24/02	--U	--U	--U	--U	--	--	-3.38E-01U	-3.38E-01U	--	--
10-12.5	B14DK6	D	4/24/02	--U	--U	--U	--U	--	--	-3.28E-01U	-3.28E-01U	--	--
10-12.5	B14DK7	S	4/24/02	0.040=	0.040=	-2.69E-03U	-2.69E-03U	0U	0U	--	--	0U	0U
10-10.5	B14JC6	N	4/24/02	--	--	--	--	--	--	-1.70E-02U	-1.70E-02U	--	--
10.5-11	B14JC7	N	4/24/02	--	--	--	--	--	--	-3.40E-02U	-3.40E-02U	--	--
11-11.5	B14JC8	N	4/24/02	--	--	--	--	--	--	0.035U	0.035U	--	--
11.5-12	B14JC9	N	4/24/02	--	--	--	--	--	--	-1.80E-02U	-1.80E-02U	--	--
12-12.5	B14JD1	N	4/25/02	--	--	--	--	--	--	0.42U	0.42U	--	--
12.5-15	B14DK5	N	4/25/02	--U	--U	--U	--U	--	--	0U	0U	--	--
15-17.5	B14DK8	N	4/25/02	--U	--U	--U	--U	--	--	-6.90E-02U	-6.90E-02U	--	--

Table A-4b. 216-Z-11 Ditch Area Radionuclides Analytical Data. (10 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Curium-242 (pCi/g)	Curium-242, Decayed (pCi/g)	Curium-243/244 (pCi/g)	Curium-243/244, Decayed (pCi/g)	Curium-244 (pCi/g)	Curium-244, Decayed (pCi/g)
				CAS Number									
				10045-97-3	10045-97-3	10198-40-0	10198-40-0	15510-73-3	15510-73-3	--	--	13981-15-2	13981-15-2
22.5-25	B14DL1	N	5/1/02	--U	--U	--U	--U	--	--	-1.70E-02U	-1.70E-02U	--	--
50-52.5	B14DL2	N	5/3/02	--U	--U	--U	--U	--	--	0U	0U	--	--
99.5-102	B14DL3	N	5/7/02	--U	--U	--U	--U	--	--	0U	0U	--	--
112-114.7	B14DL4	N	5/8/02	--U	--U	--U	--U	--	--	0U	0U	--	--
152-154.5	B14DL5	N	5/10/02	--U	--U	--U	--U	--	--	0U	0U	--	--
199.8-202	B14DL6	N	5/15/02	--U	--U	--U	--U	--	--	0.024U	0.024U	--	--
220.7-223	B14KC7	N	5/17/02	--U	--U	--U	--U	--	--	-4.70E-02U	-4.70E-02U	--	--
216-Z-19 Ditch													
2.2-2.5	1-A (2.2-2.5)	N	5/1979	0.31=	0.18=	--	--	--	--	--	--	--	--
2.5-3	1-A (2.5-3)	N	5/1979	0.33=	0.19=	--	--	--	--	--	--	--	--
2-2.2	1-A (2-2.2)	N	5/1979	0.33=	0.19=	--	--	--	--	--	--	--	--
3.5-3.7	1-B (3.5-3.7)	N	5/1979	0.31=	0.18=	--	--	--	--	--	--	--	--
3.7-4	1-B (3.7-4)	N	5/1979	1.5=	0.88=	--	--	--	--	--	--	--	--
4-4.5	1-B (4-4.5)	N	5/1979	0.33=	0.19=	--	--	--	--	--	--	--	--
3.5-3.7	1-D (3.5-3.7)	N	5/1979	0.31=	0.18=	--	--	--	--	--	--	--	--
3.7-4	1-D (3.7-4)	N	5/1979	1.0=	0.59=	--	--	--	--	--	--	--	--
4-4.5	1-D (4-4.5)	N	5/1979	0.25=	0.15=	--	--	--	--	--	--	--	--
2.2-2.5	1-E (2.2-2.5)	N	5/1979	0.50=	0.29=	--	--	--	--	--	--	--	--
2.5-3	1-E (2.5-3)	N	5/1979	0.25=	0.15=	--	--	--	--	--	--	--	--
2-2.2	1-E (2-2.2)	N	5/1979	0.43=	0.25=	--	--	--	--	--	--	--	--
2.2-2.5	1-F (2.2-2.5)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
2.5-3	1-F (2.5-3)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
2-2.2	1-F (2-2.2)	N	5/1979	1.8=	1.1=	--	--	--	--	--	--	--	--
2.2-2.5	1-G (2.2-2.5)	N	5/1979	0.80=	0.47=	--	--	--	--	--	--	--	--

Table A-4b. 216-Z-11 Ditch Area Radionuclides Analytical Data. (10 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Curium-242 (pCi/g)	Curium-242, Decayed (pCi/g)	Curium-243/244 (pCi/g)	Curium-243/244, Decayed (pCi/g)	Curium-244 (pCi/g)	Curium-244, Decayed (pCi/g)
				CAS Number									
				10045-97-3	10045-97-3	10198-40-0	10198-40-0	15510-73-3	15510-73-3	--	--	13981-15-2	13981-15-2
2.5-3	1-G (2.5-3)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
2-2.2	1-G (2-2.2)	N	5/1979	0.40=	0.24=	--	--	--	--	--	--	--	--
3.2-3.5	2-A (3.2-3.5)	N	5/1979	0.34=	0.20=	--	--	--	--	--	--	--	--
3.5-4	2-A (3.5-4)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
3-3.2	2-A (3-3.2)	N	5/1979	0.62=	0.37=	--	--	--	--	--	--	--	--
4.5-4.7	2-B (4.5-4.7)	N	5/1979	0.59=	0.35=	--	--	--	--	--	--	--	--
4.7-5	2-B (4.7-5)	N	5/1979	0.48=	0.28=	--	--	--	--	--	--	--	--
5-5.5	2-B (5-5.5)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--
4.5-4.7	2-D (4.5-4.7)	N	5/1979	0.29=	0.17=	--	--	--	--	--	--	--	--
4.7-5	2-D (4.7-5)	N	5/1979	0.28=	0.17=	--	--	--	--	--	--	--	--
5-5.5	2-D (5-5.5)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--
3.2-3.5	2-E (3.2-3.5)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
3.5-4	2-E (3.5-4)	N	5/1979	0.58=	0.34=	--	--	--	--	--	--	--	--
3-3.2	2-E (3-3.2)	N	5/1979	0.97=	0.57=	--	--	--	--	--	--	--	--
3.2-3.5	2-F (3.2-3.5)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
3.5-4	2-F (3.5-4)	N	5/1979	0.37=	0.22=	--	--	--	--	--	--	--	--
3-3.2	2-F (3-3.2)	N	5/1979	0.40=	0.24=	--	--	--	--	--	--	--	--
3.2-3.5	2-G (3.2-3.5)	N	5/1979	0.46=	0.27=	--	--	--	--	--	--	--	--
3.5-4	2-G (3.5-4)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
3-3.2	2-G (3-3.2)	N	5/1979	0.14=	0.083=	--	--	--	--	--	--	--	--
4.2-4.5	3-A (4.2-4.5)	N	5/1979	1.4=	0.83=	--	--	--	--	--	--	--	--
4.5-5	3-A (4.5-5)	N	5/1979	0.34=	0.20=	--	--	--	--	--	--	--	--
4-4.2	3-A (4-4.2)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
5.5-5.7	3-B (5.5-5.7)	N	5/1979	0.34=	0.20=	--	--	--	--	--	--	--	--
5.7-6	3-B (5.7-6)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--

Table A-4b. 216-Z-11 Ditch Area Radionuclides Analytical Data. (10 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Curium-242 (pCi/g)	Curium-242, Decayed (pCi/g)	Curium-243/244 (pCi/g)	Curium-243/244, Decayed (pCi/g)	Curium-244 (pCi/g)	Curium-244, Decayed (pCi/g)
				CAS Number									
				10045-97-3	10045-97-3	10198-40-0	10198-40-0	15510-73-3	15510-73-3	--	--	13981-15-2	13981-15-2
6-6.5	3-B (6-6.5)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--
7.2-7.5	3-C (7.2-7.5)	N	5/1979	1.0=	0.59=	--	--	--	--	--	--	--	--
7.5-8	3-C (7.5-8)	N	5/1979	0.17=	0.10=	--	--	--	--	--	--	--	--
7-7.2	3-C (7-7.2)	N	5/1979	0.51=	0.30=	--	--	--	--	--	--	--	--
8.3-8.7	3-C (8.3-8.7)	N	5/1979	0.14=	0.083=	--	--	--	--	--	--	--	--
8.7-9	3-C (8.7-9)	N	5/1979	0.27=	0.16=	--	--	--	--	--	--	--	--
8-8.3	3-C (8-8.3)	N	5/1979	0.32=	0.19=	--	--	--	--	--	--	--	--
5.5-5.7	3-D (5.5-5.7)	N	5/1979	0.48=	0.28=	--	--	--	--	--	--	--	--
5.7-6	3-D (5.7-6)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--
6-6.5	3-D (6-6.5)	N	5/1979	0.60=	0.35=	--	--	--	--	--	--	--	--
4.2-4.5	3-E (4.2-4.5)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
4.5-5	3-E (4.5-5)	N	5/1979	0.68=	0.40=	--	--	--	--	--	--	--	--
4-4.2	3-E (4-4.2)	N	5/1979	1.3=	0.77=	--	--	--	--	--	--	--	--
4.2-4.5	3-F (4.2-4.5)	N	5/1979	0.30=	0.18=	--	--	--	--	--	--	--	--
4.5-5	3-F (4.5-5)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
4-4.2	3-F (4-4.2)	N	5/1979	27=	16=	--	--	--	--	--	--	--	--
4.2-4.5	3-G (4.2-4.5)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
4.5-5	3-G (4.5-5)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
4-4.2	3-G (4-4.2)	N	5/1979	0.70=	0.41=	--	--	--	--	--	--	--	--
4.2-4.5	4-A (4.2-4.5)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
4.5-5	4-A (4.5-5)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
4-4.2	4-A (4-4.2)	N	5/1979	0.32=	0.19=	--	--	--	--	--	--	--	--
5.5-5.7	4-B (5.5-5.7)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
5.7-6	4-B (5.7-6)	N	5/1979	0.33=	0.19=	--	--	--	--	--	--	--	--
6-6.5	4-B (6-6.5)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--

Table A-4b. 216-Z-11 Ditch Area Radionuclides Analytical Data. (10 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Curium-242 (pCi/g)	Curium-242, Decayed (pCi/g)	Curium-243/244 (pCi/g)	Curium-243/244, Decayed (pCi/g)	Curium-244 (pCi/g)	Curium-244, Decayed (pCi/g)
				CAS Number									
				10045-97-3	10045-97-3	10198-40-0	10198-40-0	15510-73-3	15510-73-3	--	--	13981-15-2	13981-15-2
5.5-5.7	4-D (5.5-5.7)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
5.7-6	4-D (5.7-6)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
6-6.5	4-D (6-6.5)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
4.2-4.5	4-E (4.2-4.5)	N	5/1979	0.54=	0.32=	--	--	--	--	--	--	--	--
4.5-5	4-E (4.5-5)	N	5/1979	0.34=	0.20=	--	--	--	--	--	--	--	--
4-4.2	4-E (4-4.2)	N	5/1979	2.0=	1.2=	--	--	--	--	--	--	--	--
4.2-4.5	4-F (4.2-4.5)	N	5/1979	0.20=	0.12=	--	--	--	--	--	--	--	--
4.5-5	4-F (4.5-5)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
4-4.2	4-F (4-4.2)	N	5/1979	0.40=	0.24=	--	--	--	--	--	--	--	--
4.2-4.5	4-G (4.2-4.5)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
4.5-5	4-G (4.5-5)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
4-4.2	4-G (4-4.2)	N	5/1979	0.40=	0.24=	--	--	--	--	--	--	--	--
3.2-3.5	5-A (3.2-3.5)	N	5/1979	0.54=	0.32=	--	--	--	--	--	--	--	--
3.5-4	5-A (3.5-4)	N	5/1979	0.34=	0.20=	--	--	--	--	--	--	--	--
3-3.2	5-A (3-3.2)	N	5/1979	0.46=	0.27=	--	--	--	--	--	--	--	--
4.5-4.7	5-B (4.5-4.7)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--
4.7-5	5-B (4.7-5)	N	5/1979	0.34=	0.20=	--	--	--	--	--	--	--	--
5-5.5	5-B (5-5.5)	N	5/1979	0.34=	0.20=	--	--	--	--	--	--	--	--
4.5-4.7	5-D (4.5-4.7)	N	5/1979	0.45=	0.27=	--	--	--	--	--	--	--	--
4.7-5	5-D (4.7-5)	N	5/1979	0.48=	0.28=	--	--	--	--	--	--	--	--
5-5.5	5-D (5-5.5)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--
3.2-3.5	5-E (3.2-3.5)	N	5/1979	0.34=	0.20=	--	--	--	--	--	--	--	--
3.5-4	5-E (3.5-4)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
3-3.2	5-E (3-3.2)	N	5/1979	0.47=	0.28=	--	--	--	--	--	--	--	--
3.2-3.5	5-F (3.2-3.5)	N	5/1979	0.20=	0.12=	--	--	--	--	--	--	--	--

Table A-4b. 216-Z-11 Ditch Area Radionuclides Analytical Data. (10 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Curium-242 (pCi/g)	Curium-242, Decayed (pCi/g)	Curium-243/244 (pCi/g)	Curium-243/244, Decayed (pCi/g)	Curium-244 (pCi/g)	Curium-244, Decayed (pCi/g)
				CAS Number									
				10045-97-3	10045-97-3	10198-40-0	10198-40-0	15510-73-3	15510-73-3	--	--	13981-15-2	13981-15-2
3.5-4	5-F (3.5-4)	N	5/1979	0.20=	0.12=	--	--	--	--	--	--	--	--
3-3.2	5-F (3-3.2)	N	5/1979	0.40=	0.24=	--	--	--	--	--	--	--	--
3.2-3.5	5-G (3.2-3.5)	N	5/1979	1.1=	0.65=	--	--	--	--	--	--	--	--
3.5-4	5-G (3.5-4)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
3-3.2	5-G (3-3.2)	N	5/1979	2.0=	1.2=	--	--	--	--	--	--	--	--
6.2-6.5	6-A (6.2-6.5)	N	5/1979	0.33=	0.19=	--	--	--	--	--	--	--	--
6.5-7	6-A (6.5-7)	N	5/1979	0.26=	0.15=	--	--	--	--	--	--	--	--
6-6.2	6-A (6-6.2)	N	5/1979	0.34=	0.20=	--	--	--	--	--	--	--	--
7.5-7.7	6-B (7.5-7.7)	N	5/1979	0.33=	0.19=	--	--	--	--	--	--	--	--
7.7-8	6-B (7.7-8)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
8-8.5	6-B (8-8.5)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
7.5-7.7	6-D (7.5-7.7)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
7.7-8	6-D (7.7-8)	N	5/1979	0.34=	0.20=	--	--	--	--	--	--	--	--
8-8.5	6-D (8-8.5)	N	5/1979	0.66=	0.39=	--	--	--	--	--	--	--	--
6.2-6.5	6-E (6.2-6.5)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--
6.5-7	6-E (6.5-7)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
6-6.2	6-E (6-6.2)	N	5/1979	0.32=	0.19=	--	--	--	--	--	--	--	--
6.2-6.5	6-F (6.2-6.5)	N	5/1979	0.40=	0.24=	--	--	--	--	--	--	--	--
6.5-7	6-F (6.5-7)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
6-6.2	6-F (6-6.2)	N	5/1979	2.2=	1.3=	--	--	--	--	--	--	--	--
6.2-6.5	6-G (6.2-6.5)	N	5/1979	0.20=	0.12=	--	--	--	--	--	--	--	--
6.5-7	6-G (6.5-7)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
6-6.2	6-G (6-6.2)	N	5/1979	1.5=	0.88=	--	--	--	--	--	--	--	--
5.2-5.5	7-A (5.2-5.5)	N	5/1979	0.59=	0.35=	--	--	--	--	--	--	--	--
5.5-6	7-A (5.5-6)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--

Table A-4b. 216-Z-11 Ditch Area Radionuclides Analytical Data. (10 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Curium-242 (pCi/g)	Curium-242, Decayed (pCi/g)	Curium-243/244 (pCi/g)	Curium-243/244, Decayed (pCi/g)	Curium-244 (pCi/g)	Curium-244, Decayed (pCi/g)
				CAS Number									
				10045-97-3	10045-97-3	10198-40-0	10198-40-0	15510-73-3	15510-73-3	--	--	13981-15-2	13981-15-2
5-5.2	7-A (5-5.2)	N	5/1979	0.34=	0.20=	--	--	--	--	--	--	--	--
6.5-6.7	7-B (6.5-6.7)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--
6.7-7	7-B (6.7-7)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--
7-7.5	7-B (7-7.5)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--
6.5-6.7	7-D (6.5-6.7)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--
6.7-7	7-D (6.7-7)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--
7-7.5	7-D (7-7.5)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--
5.2-5.5	7-E (5.2-5.5)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--
5.5-6	7-E (5.5-6)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
5-5.2	7-E (5-5.2)	N	5/1979	0.65=	0.38=	--	--	--	--	--	--	--	--
6.3-7	7-E (6.3-7)	N	5/1979	--	--	--	--	--	--	--	--	--	--
5.2-5.5	7-F (5.2-5.5)	N	5/1979	0.20=	0.12=	--	--	--	--	--	--	--	--
5.5-6	7-F (5.5-6)	N	5/1979	0.30=	0.18=	--	--	--	--	--	--	--	--
5-5.2	7-F (5-5.2)	N	5/1979	1.2=	0.71=	--	--	--	--	--	--	--	--
5.2-5.5	7-G (5.2-5.5)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
5.5-6	7-G (5.5-6)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
5-5.2	7-G (5-5.2)	N	5/1979	1.4=	0.83=	--	--	--	--	--	--	--	--
2.2-2.5	8-A (2.2-2.5)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
2.5-3	8-A (2.5-3)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
2-2.2	8-A (2-2.2)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
3.5-3.7	8-B (3.5-3.7)	N	5/1979	0.32=	0.19=	--	--	--	--	--	--	--	--
3.7-4	8-B (3.7-4)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--
4-4.5	8-B (4-4.5)	N	5/1979	0.33=	0.19=	--	--	--	--	--	--	--	--
3.5-3.7	8-D (3.5-3.7)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
3.7-4	8-D (3.7-4)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--

Table A-4b. 216-Z-11 Ditch Area Radionuclides Analytical Data. (10 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Curium-242 (pCi/g)	Curium-242, Decayed (pCi/g)	Curium-243/244 (pCi/g)	Curium-243/244, Decayed (pCi/g)	Curium-244 (pCi/g)	Curium-244, Decayed (pCi/g)
				CAS Number									
				10045-97-3	10045-97-3	10198-40-0	10198-40-0	15510-73-3	15510-73-3	--	--	13981-15-2	13981-15-2
4-4.5	8-D (4-4.5)	N	5/1979	0.37=	0.22=	--	--	--	--	--	--	--	--
2.2-2.5	8-E (2.2-2.5)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
2.5-3	8-E (2.5-3)	N	5/1979	0.37=	0.22=	--	--	--	--	--	--	--	--
2-2.2	8-E (2-2.2)	N	5/1979	0.47=	0.28=	--	--	--	--	--	--	--	--
2.2-2.5	8-F (2.2-2.5)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
2.5-3	8-F (2.5-3)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
2-2.2	8-F (2-2.2)	N	5/1979	0.40=	0.24=	--	--	--	--	--	--	--	--
2.2-2.5	8-G (2.2-2.5)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
2.5-3	8-G (2.5-3)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
2-2.2	8-G (2-2.2)	N	5/1979	0.40=	0.24=	--	--	--	--	--	--	--	--
4.2-4.5	9-A (4.2-4.5)	N	5/1979	0.47=	0.28=	--	--	--	--	--	--	--	--
4.5-5	9-A (4.5-5)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
4-4.2	9-A (4-4.2)	N	5/1979	0.34=	0.20=	--	--	--	--	--	--	--	--
5.5-5.7	9-B (5.5-5.7)	N	5/1979	1.3=	0.77=	--	--	--	--	--	--	--	--
5.7-6	9-B (5.7-6)	N	5/1979	0.0035=	0.0021=	--	--	--	--	--	--	--	--
6-6.5	9-B (6-6.5)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
5.5-5.7	9-D (5.5-5.7)	N	5/1979	2.0=	1.2=	--	--	--	--	--	--	--	--
5.7-6	9-D (5.7-6)	N	5/1979	0.36=	0.21=	--	--	--	--	--	--	--	--
6-6.5	9-D (6-6.5)	N	5/1979	1.8=	1.1=	--	--	--	--	--	--	--	--
4.2-4.5	9-E (4.2-4.5)	N	5/1979	0.48=	0.28=	--	--	--	--	--	--	--	--
4.5-5	9-E (4.5-5)	N	5/1979	0.34=	0.20=	--	--	--	--	--	--	--	--
4-4.2	9-E (4-4.2)	N	5/1979	0.35=	0.21=	--	--	--	--	--	--	--	--
4.2-4.5	9-F (4.2-4.5)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
4.5-5	9-F (4.5-5)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
4-4.2	9-F (4-4.2)	N	5/1979	0.090=	0.053=	--	--	--	--	--	--	--	--

Table A-4b. 216-Z-11 Ditch Area Radionuclides Analytical Data. (10 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Curium-242 (pCi/g)	Curium-242, Decayed (pCi/g)	Curium-243/244 (pCi/g)	Curium-243/244, Decayed (pCi/g)	Curium-244 (pCi/g)	Curium-244, Decayed (pCi/g)
				CAS Number									
				10045-97-3	10045-97-3	10198-40-0	10198-40-0	15510-73-3	15510-73-3	--	--	13981-15-2	13981-15-2
4.2-4.5	9-G (4.2-4.5)	N	5/1979	0.70=	0.41=	--	--	--	--	--	--	--	--
4.5-5	9-G (4.5-5)	N	5/1979	0.10=	0.059=	--	--	--	--	--	--	--	--
4-4.2	9-G (4-4.2)	N	5/1979	1.6=	0.94=	--	--	--	--	--	--	--	--
216-Z-1 D Ditch													
7-7	Z-19 Ditch East Bank 100 ft N	N	3/24/76	1.0=	0.55=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch East Bank 200 ft S1	N	3/24/76	1.1=	0.61=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch Near 16th Street-27	N	4/21/76	3,800=	2,091=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch NW Bank at U-pond I	N	3/24/76	19=	11=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch Outfall (head)-2787	N	4/21/76	0.70=	0.39=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch U-pond Inlet (delta	N	4/21/76	120,000=	66,041=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch West Bank 500 ft-27	N	3/24/76	1.1=	0.61=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch West Bank Head-2784	N	3/24/76	1.6=	0.88=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch-16th street crossing	N	1979	0.10=	0.059=	--U	--U	--	--	--	--	--	--
7-7	Z-19 Ditch-1977	N	1977	2.7=	1.6=	--	--	--	--	--	--	--	--
7-7	Z-19 Ditch-231-Z outfall-1979	N	1979	1.3=	0.77=	--U	--U	--	--	--	--	--	--
7-7	Z-19 Ditch-234-5 Outfall-1979	N	1979	0.80=	0.47=	--U	--U	--	--	--	--	--	--
7-7	Z-19 Ditch-High-1978	N	1978	19=	11=	--	--	--	--	--	--	--	--

Table A-4b. 216-Z-11 Ditch Area Radionuclides Analytical Data. (10 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Curium-242 (pCi/g)	Curium-242, Decayed (pCi/g)	Curium-243/244 (pCi/g)	Curium-243/244, Decayed (pCi/g)	Curium-244 (pCi/g)	Curium-244, Decayed (pCi/g)
				CAS Number									
				10045-97-3	10045-97-3	10198-40-0	10198-40-0	15510-73-3	15510-73-3	--	--	13981-15-2	13981-15-2
7-7	Z-19 Ditch-inlet to U-pond-197	N	1979	6.1=	3.6=	--U	--U	--	--	--	--	--	--
7-7	Z-19 Ditch-Low-1978	N	1978	3.1=	1.8=	--	--	--	--	--	--	--	--

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-4c. 216-Z-11 Ditch Area Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Europium-152 (pCi/g)	Europium-152, Decayed (pCi/g)	Europium-154 (pCi/g)	Europium-154, Decayed (pCi/g)	Europium-155 (pCi/g)	Europium-155, Decayed (pCi/g)	Gross Alpha (pCi/g)	Manganese-54 (pCi/g)	Manganese-54, Decayed (pCi/g)
				CAS Number								
				14683-23-9	14683-23-9	15585-10-1	15585-10-1	14391-16-3	14391-16-3	--	13966-31-9	13966-31-9
216-Z-11 Ditch												
2.5-5	B14DJ8	N	4/23/02	--U	--U	--U	--U	--U	--U	--	--	--
7.5-10	B14DK3	N	4/24/02	--U	--U	--U	--U	--U	--U	--	--	--
10-12.5	B14DK4	N	4/24/02	--U	--U	--U	--U	--U	--U	--	--	--
10-12.5	B14DK6	D	4/24/02	--U	--U	--U	--U	--U	--U	--	--	--
10-12.5	B14DK7	S	4/24/02	0.0019U	0.0019U	-2.23E-02U	-2.23E-02U	0.089U	0.089U	--	--	--
12.5-15	B14DK5	N	4/25/02	--U	--U	--U	--U	--U	--U	--	--	--
15-17.5	B14DK8	N	4/25/02	--U	--U	--U	--U	--U	--U	--	--	--
22.5-25	B14DL1	N	5/1/02	--U	--U	--U	--U	--U	--U	--	--	--
50-52.5	B14DL2	N	5/3/02	--U	--U	--U	--U	--U	--U	--	--	--
99.5-102	B14DL3	N	5/7/02	--U	--U	--U	--U	--U	--U	--	--	--
112-114.7	B14DL4	N	5/8/02	--U	--U	--U	--U	--U	--U	--	--	--
152-154.5	B14DL5	N	5/10/02	--U	--U	--U	--U	--U	--U	--	--	--
199.8-202	B14DL6	N	5/15/02	--U	--U	--U	--U	--U	--U	--	--	--
220.7-223	B14KC7	N	5/17/02	--U	--U	--U	--U	--U	--U	--	--	--
216-Z-1 D Ditch												
7-7	Z-19 Ditch-16th street crossing	N	1979	--	--	--U	--U	--U	--U	--	--U	--U
7-7	Z-19 Ditch-231-Z outfall-1979	N	1979	--	--	--U	--U	--U	--U	--	--U	--U
7-7	Z-19 Ditch-234-5 Outfall-1979	N	1979	--	--	--U	--U	--U	--U	--	--U	--U
7-7	Z-19 Ditch-inlet to U-pond-197	N	1979	--	--	--U	--U	--U	--U	--	--U	--U
216-Z-1 D Ditch												
7-7	1900	N	1959	--	--	--	--	--	--	860,000=	--	--

Table A-4c. 216-Z-11 Ditch Area Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Europium-152 (pCi/g)	Europium-152, Decayed (pCi/g)	Europium-154 (pCi/g)	Europium-154, Decayed (pCi/g)	Europium-155 (pCi/g)	Europium-155, Decayed (pCi/g)	Gross Alpha (pCi/g)	Manganese-54 (pCi/g)	Manganese-54, Decayed (pCi/g)
				CAS Number								
				14683-23-9	14683-23-9	15585-10-1	15585-10-1	14391-16-3	14391-16-3	--	13966-31-9	13966-31-9
7-7	1901	N	1959	--	--	--	--	--	--	35,000=	--	--
8-8	1902	N	1959	--	--	--	--	--	--	110,000=	--	--
8-8	1903	N	1959	--	--	--	--	--	--	55,000=	--	--
7-7	1904	N	1959	--	--	--	--	--	--	26,000=	--	--
6-6	1905	N	1959	--	--	--	--	--	--	33,000=	--	--
8-8	1906	N	1959	--	--	--	--	--	--	390,000=	--	--
7-7	1907	N	1959	--	--	--	--	--	--	59,000=	--	--
8-8	1908	N	1959	--	--	--	--	--	--	840,000=	--	--

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
\- Not analyzed
= Detected

Table A-4d. 216-Z-11 Ditch Area Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Neptunium-237 (pCi/g)	Neptunium-237, Decayed (pCi/g)	Nickel-63 (pCi/g)	Nickel-63, Decayed (pCi/g)	Niobium-94 (pCi/g)	Niobium-94, Decayed (pCi/g)	Plutonium-238 (pCi/g)	Plutonium-238, Decayed (pCi/g)	Plutonium-239 (pCi/g)	Plutonium-239, Decayed (pCi/g)
				13994-20-2	13994-20-2	13981-37-8	13981-37-8	14681-63-1	14681-63-1	13981-16-3	13981-16-3	15117-48-3	15117-48-3
216-Z-11 Ditch													
3.9-3.9	299-W18-189 (3.9-3.9)	N	1981	--	--	--	--	--	--	6.4 =	5.4 =	--	--
3-3	299-W18-189 (3-3)	N	1981	--	--	--	--	--	--	8.2 =	6.9 =	--	--
3-3.9	299-W18-189 (3-3.9)	N	1981	--	--	--	--	--	--	120 =	102 =	--	--
4.9-4.9	299-W18-189 (4.9-4.9)	N	1981	--	--	--	--	--	--	1.0 =	0.85 =	--	--
5.9-5.9	299-W18-189 (5.9-5.9)	N	1981	--	--	--	--	--	--	1.0 =	0.85 =	--	--
216-Z-11 Ditch													
20-20	299-W18-193 (20-20)	N	1981	--	--	--	--	--	--	0.021 =	0.018 =	--	--
3.9-3.9	299-W18-193 (3.9-3.9)	N	1981	--	--	--	--	--	--	47 =	40 =	--	--
216-Z-11 Ditch													
16.1-16.1	299-W18-194 (16.1-16.1)	N	1981	--	--	--	--	--	--	0.040 =	0.034 =	--	--
2-2	299-W18-194 (2-2)	N	1981	--	--	--	--	--	--	1.6 =	1.4 =	--	--
3.9-3.9	299-W18-194 (3.9-3.9)	N	1981	--	--	--	--	--	--	2.6 =	2.2 =	--	--
3-3	299-W18-	N	1981	--	--	--	--	--	--	4,000 =	3,388 =	--	--

Table A-4d. 216-Z-11 Ditch Area Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Neptunium-237 (pCi/g)	Neptunium-237, Decayed (pCi/g)	Nickel-63 (pCi/g)	Nickel-63, Decayed (pCi/g)	Niobium-94 (pCi/g)	Niobium-94, Decayed (pCi/g)	Plutonium-238 (pCi/g)	Plutonium-238, Decayed (pCi/g)	Plutonium-239 (pCi/g)	Plutonium-239, Decayed (pCi/g)
				13994-20-2	13994-20-2	13981-37-8	13981-37-8	14681-63-1	14681-63-1	13981-16-3	13981-16-3	15117-48-3	15117-48-3
	194 (3-3)												
216-Z-11 Ditch													
10.8-11.2	299-W18-195 (10.8-11.2)	N	1981	--	--	--	--	--	--	0.80 =	0.68 =	--	--
12.8-13.1	299-W18-195 (12.8-13.1)	N	1981	--	--	--	--	--	--	2.5 =	2.1 =	--	--
2.6-2.6	299-W18-195 (2.6-2.6)	N	1981	--	--	--	--	--	--	25 =	21 =	--	--
8.2-8.5	299-W18-195 (8.2-8.5)	N	1981	--	--	--	--	--	--	360 =	305 =	--	--
8.5-9.5	299-W18-195 (8.5-9.5)	N	1981	--	--	--	--	--	--	7.2 =	6.1 =	--	--
216-Z-11 Ditch													
2.5-5	B14DJ8	N	4/23/02	-1.00E-02 U	-1.00E-02 U	-6.20E-02 U	-6.20E-02 U	-- U	-- U	0.077 U	0.077 U	--	--
7.5-8.0	B14DJ9	N	4/24/02	--	--	--	--	--	--	0.45 U	0.45 U	--	--
8.0-8.5	B14DK0	N	4/24/02	--	--	--	--	--	--	52 =	52 =	--	--
8.5-9.0	B14DK1	N	4/24/02	--	--	--	--	--	--	0.46 U	0.46 U	--	--
9.0-9.5	B14DK2	N	4/24/02	--	--	--	--	--	--	43 =	43 =	--	--
9.5-10	B14JC5	N	4/24/02	--	--	--	--	--	--	0 U	0 U	--	--
7.5-10	B14DK3	N	4/24/02	-3.16E-01 U	-3.16E-01 U	--	--	-- U	-- U	--	--	--	--
10-12.5	B14DK4	N	4/24/02	-9.59E-01 U	-9.59E-01 U	--	--	-- U	-- U	35 =	35 =	--	--
10-12.5	B14DK6	D	4/24/02	-3.23E-01 U	-3.23E-01 U	--	--	-- U	-- U	36 =	36 =	--	--
10-12.5	B14DK7	S	4/24/02	0.39 U	0.39 U	--	--	-6.23E-03 U	-6.23E-03 U	39 =	39 =	--	--
10-10.5	B14JC6	N	4/24/02	--	--	--	--	--	--	0.17 U	0.17 U	--	--
10.5-11	B14JC7	N	4/24/02	--	--	--	--	--	--	0.13 U	0.13 U	--	--
11-11.5	B14JC8	N	4/24/02	--	--	--	--	--	--	0 U	0 U	--	--
11.5-12	B14JC9	N	4/24/02	--	--	--	--	--	--	0.46 U	0.46 U	--	--

Table A-4d. 216-Z-11 Ditch Area Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Neptunium-237 (pCi/g)	Neptunium-237, Decayed (pCi/g)	Nickel-63 (pCi/g)	Nickel-63, Decayed (pCi/g)	Niobium-94 (pCi/g)	Niobium-94, Decayed (pCi/g)	Plutonium-238 (pCi/g)	Plutonium-238, Decayed (pCi/g)	Plutonium-239 (pCi/g)	Plutonium-239, Decayed (pCi/g)
				13994-20-2	13994-20-2	13981-37-8	13981-37-8	14681-63-1	14681-63-1	13981-16-3	13981-16-3	15117-48-3	15117-48-3
12-12.5	B14JD1	N	4/25/02	--	--	--	--	--	--	58 =	58 =	--	--
12.5-15	B14DK5	N	4/25/02	0U	0U	--	--	-- U	-- U	0.93 J	0.93 J	--	--
15-17.5	B14DK8	N	4/25/02	0.028U	0.028U	--	--	-- U	-- U	0.21 U	0.21 U	--	--
22.5-25	B14DL1	N	5/1/02	0.010U	0.010U	0.81U	0.81U	-- U	-- U	0 U	0 U	--	--
50-52.5	B14DL2	N	5/3/02	0U	0U	1.2U	1.2U	-- U	-- U	0.041 U	0.041 U	--	--
99.5-102	B14DL3	N	5/7/02	0.060J	0.060J	0.062U	0.062U	-- U	-- U	0.034 U	0.034 U	--	--
112-114.7	B14DL4	N	5/8/02	0.0080U	0.0080U	-2.88E-01 U	-2.88E-01 U	-- U	-- U	-2.80E-02 U	-2.80E-02 U	--	--
152-154.5	B14DL5	N	5/10/02	0.016U	0.016U	-5.78E-01 U	-5.78E-01 U	-- U	-- U	0.070 U	0.070 U	--	--
199.8-202	B14DL6	N	5/15/02	-2.00E-02U	-2.00E-02U	-8.71E-01 U	-8.71E-01 U	-- U	-- U	-3.20E-02 U	-3.20E-02 U	--	--
220.7-223	B14KC7	N	5/17/02	0.0040U	0.0040U	-2.14E-01 U	-2.14E-01 U	-- U	-- U	0 U	0 U	--	--
216-Z-19 Ditch													
10.6-11	6-C (10.6-11)	N	5/1979	--	--	--	--	--	--	1,300 =	1,300 =	--	--
9.7-10	6-C (9.7-10)	N	5/1979	--	--	--	--	--	--	110 =	110 =	--	--
8.7-9	7-C (8.7-9)	N	5/1979	--	--	--	--	--	--	4,900 =	4,900 =	--	--
5.7-6	8-C (5.7-6)	N	5/1979	--	--	--	--	--	--	5,500 =	5,500 =	--	--
5-5.2	8-C (5-5.2)	N	5/1979	--	--	--	--	--	--	61 =	61 =	--	--
6.6-6.6	8-C (6.6-6.6)	N	5/1979	--	--	--	--	--	--	23 =	23 =	--	--
7.7-8	9-C (7.7-8)	N	5/1979	--	--	--	--	--	--	110 =	110 =	--	--
7-7.3	9-C (7-7.3)	N	5/1979	--	--	--	--	--	--	16 =	16 =	--	--
9.3-9.6	9-C (9.3-9.6)	N	5/1979	--	--	--	--	--	--	280 =	280 =	--	--
216-Z-1 D Ditch													
7-7	Z-19 Ditch East Bank	N	3/24/76	--	--	--	--	--	--	--	--	4,900 =	4,900 =

Table A-4d. 216-Z-11 Ditch Area Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Neptunium-237 (pCi/g)	Neptunium-237, Decayed (pCi/g)	Nickel-63 (pCi/g)	Nickel-63, Decayed (pCi/g)	Niobium-94 (pCi/g)	Niobium-94, Decayed (pCi/g)	Plutonium-238 (pCi/g)	Plutonium-238, Decayed (pCi/g)	Plutonium-239 (pCi/g)	Plutonium-239, Decayed (pCi/g)
				13994-20-2	13994-20-2	13981-37-8	13981-37-8	14681-63-1	14681-63-1	13981-16-3	13981-16-3	15117-48-3	15117-48-3
	200 ft S1												
7-7	Z-19 Ditch Head-1976	N	1976	--	--	--	--	--	--	--	--	1,300 =	1,300 =
7-7	Z-19 Ditch Near 16th Street-27	N	4/21/76	--	--	--	--	--	--	--	--	8.8 =	8.8 =
7-7	Z-19 Ditch Outfall (head)-2787	N	4/21/76	--	--	--	--	--	--	--	--	33,000 =	33,000 =
7-7	Z-19 Ditch West Bank 500 ft-27	N	3/24/76	--	--	--	--	--	--	--	--	5,200 =	5,200 =
7-7	Z-19 Ditch West Bank Head-2784	N	3/24/76	--	--	--	--	--	--	--	--	21,000 =	21,000 =
216-Z-1 D Ditch													
7-7	1900	N	1959	--	--	--	--	--	--	--	--	750,000 =	750,000 =
7-7	1901	N	1959	--	--	--	--	--	--	--	--	34,000 =	34,000 =
8-8	1902	N	1959	--	--	--	--	--	--	--	--	89,000 =	89,000 =
8-8	1903	N	1959	--	--	--	--	--	--	--	--	46,000 =	46,000 =
7-7	1904	N	1959	--	--	--	--	--	--	--	--	24,000 =	24,000 =
6-6	1905	N	1959	--	--	--	--	--	--	--	--	33,000 =	33,000 =
8-8	1906	N	1959	--	--	--	--	--	--	--	--	310,000 =	310,000 =
7-7	1907	N	1959	--	--	--	--	--	--	--	--	38,000 =	38,000 =
8-8	1908	N	1959	--	--	--	--	--	--	--	--	780,000 =	780,000 =
216-Z-1D Ditch													
13.1-13.1	299-W18-188 (13.1-13.1)	N	1981	--	--	--	--	--	--	0.031 =	0.026 =	--	--
6.9-6.9	299-W18-188	N	1981	--	--	--	--	--	--	0.80 =	0.68 =	--	--

Table A-4d. 216-Z-11 Ditch Area Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Neptunium-237 (pCi/g)	Neptunium-237, Decayed (pCi/g)	Nickel-63 (pCi/g)	Nickel-63, Decayed (pCi/g)	Niobium-94 (pCi/g)	Niobium-94, Decayed (pCi/g)	Plutonium-238 (pCi/g)	Plutonium-238, Decayed (pCi/g)	Plutonium-239 (pCi/g)	Plutonium-239, Decayed (pCi/g)
				13994-20-2	13994-20-2	13981-37-8	13981-37-8	14681-63-1	14681-63-1	13981-16-3	13981-16-3	15117-48-3	15117-48-3
	(6.9-6.9)												
7.9-7.9	299-W18-188 (7.9-7.9)	N	1981	--	--	--	--	--	--	6,200 =	5,252 =	--	--
8.9-8.9	299-W18-188 (8.9-8.9)	N	1981	--	--	--	--	--	--	3.4 =	2.9 =	--	--
6.9-6.9	299-W18-188 FD (6.9-6.9)	FD	1981	--	--	--	--	--	--	0.70 =	0.59 =	--	--
7.9-7.9	299-W18-188 FD (7.9-7.9)	FD	1981	--	--	--	--	--	--	3,500 =	2,965 =	--	--
10.5-11.2	299-W18-192 (10.5-11.2)	N	1981	--	--	--	--	--	--	1.9 =	1.6 =	--	--
13.1-13.1	299-W18-192 (13.1-13.1)	N	1981	--	--	--	--	--	--	15 =	13 =	--	--
14.1-14.1	299-W18-192 (14.1-14.1)	N	1981	--	--	--	--	--	--	3.1 =	2.6 =	--	--
20-20	299-W18-192 (20-20)	N	1981	--	--	--	--	--	--	0.047 =	0.040 =	--	--
5.9-5.9	299-W18-192 (5.9-5.9)	N	1981	--	--	--	--	--	--	0.40 =	0.34 =	--	--
6.9-6.9	299-W18-192 (6.9-6.9)	N	1981	--	--	--	--	--	--	10 =	8.5 =	--	--
7.9-7.9	299-W18-192	N	1981	--	--	--	--	--	--	1.8 =	1.5 =	--	--

Table A-4d. 216-Z-11 Ditch Area Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Neptunium-237 (pCi/g)	Neptunium-237, Decayed (pCi/g)	Nickel-63 (pCi/g)	Nickel-63, Decayed (pCi/g)	Niobium-94 (pCi/g)	Niobium-94, Decayed (pCi/g)	Plutonium-238 (pCi/g)	Plutonium-238, Decayed (pCi/g)	Plutonium-239 (pCi/g)	Plutonium-239, Decayed (pCi/g)
				13994-20-2	13994-20-2	13981-37-8	13981-37-8	14681-63-1	14681-63-1	13981-16-3	13981-16-3	15117-48-3	15117-48-3
	(7.9-7.9)												
8.9-8.9	299-W18-192 (8.9-8.9)	N	1981	--	--	--	--	--	--	3.8 =	3.2 =	--	--
9.8-9.8	299-W18-192 (9.8-9.8)	N	1981	--	--	--	--	--	--	1.2 =	1.0 =	--	--
6.9-6.9	299-W18-192 FD (6.9-6.9)	FD	1981	--	--	--	--	--	--	6,100 =	5,167 =	--	--
7.9-7.9	299-W18-192 FD (7.9-7.9)	FD	1981	--	--	--	--	--	--	16 =	14 =	--	--
Adjacent to 216-Z Ditches													
16.1-16.1	299-W15-203 (16.1-16.1)	N	1981	--	--	--	--	--	--	0.015 =	0.013 =	--	--
5.9-5.9	299-W15-203 (5.9-5.9)	N	1981	--	--	--	--	--	--	36 =	30 =	--	--
Adjacent to 216-Z Ditches													
4.9-5.9	299-W15-204 (4.9-5.9)	N	1981	--	--	--	--	--	--	2.9 =	2.5 =	--	--
8.9-8.9	299-W15-204 (8.9-8.9)	N	1981	--	--	--	--	--	--	0.018 =	0.015 =	--	--
Adjacent to 216-Z Ditches													
15.1-15.1	299-W18-177 (15.1-15.1)	N	1981	--	--	--	--	--	--	0.027 =	0.023 =	--	--
19-19	299-W18-177 (19-19)	N	1981	--	--	--	--	--	--	0.011 =	0.0093 =	--	--

Table A-4d. 216-Z-11 Ditch Area Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Neptunium-237 (pCi/g)	Neptunium-237, Decayed (pCi/g)	Nickel-63 (pCi/g)	Nickel-63, Decayed (pCi/g)	Niobium-94 (pCi/g)	Niobium-94, Decayed (pCi/g)	Plutonium-238 (pCi/g)	Plutonium-238, Decayed (pCi/g)	Plutonium-239 (pCi/g)	Plutonium-239, Decayed (pCi/g)
				13994-20-2	13994-20-2	13981-37-8	13981-37-8	14681-63-1	14681-63-1	13981-16-3	13981-16-3	15117-48-3	15117-48-3
20-20	299-W18-177 (20-20)	N	1981	--	--	--	--	--	--	0.16 =	0.14 =	--	--
24.9-24.9	299-W18-177 (24.9-24.9)	N	1981	--	--	--	--	--	--	0.14 =	0.12 =	--	--
29.9-29.9	299-W18-177 (29.9-29.9)	N	1981	--	--	--	--	--	--	0.080 =	0.068 =	--	--
35.1-35.1	299-W18-177 (35.1-35.1)	N	1981	--	--	--	--	--	--	0.091 =	0.077 =	--	--
4.9-4.9	299-W18-177 (4.9-4.9)	N	1981	--	--	--	--	--	--	0.32 =	0.27 =	--	--
40-40	299-W18-177 (40-40)	N	1981	--	--	--	--	--	--	0.13 =	0.11 =	--	--
45.9-45.9	299-W18-177 (45.9-45.9)	N	1981	--	--	--	--	--	--	0.024 =	0.020 =	--	--
7.9-7.9	299-W18-177 (7.9-7.9)	N	1981	--	--	--	--	--	--	0.90 =	0.76 =	--	--
8.9-8.9	299-W18-177 (8.9-8.9)	N	1981	--	--	--	--	--	--	0.049 =	0.042 =	--	--
Adjacent to 216-Z Ditches													
15.1-15.1	299-W18-178 (15.1-15.1)	N	1981	--	--	--	--	--	--	0.17 =	0.14 =	--	--
18-18	299-W18-178 (18-18)	N	1981	--	--	--	--	--	--	0.016 =	0.014 =	--	--
21-21	299-W18-	N	1981	--	--	--	--	--	--	0.19 =	0.16 =	--	--

Table A-4d. 216-Z-11 Ditch Area Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Neptunium-237 (pCi/g)	Neptunium-237, Decayed (pCi/g)	Nickel-63 (pCi/g)	Nickel-63, Decayed (pCi/g)	Niobium-94 (pCi/g)	Niobium-94, Decayed (pCi/g)	Plutonium-238 (pCi/g)	Plutonium-238, Decayed (pCi/g)	Plutonium-239 (pCi/g)	Plutonium-239, Decayed (pCi/g)
				13994-20-2	13994-20-2	13981-37-8	13981-37-8	14681-63-1	14681-63-1	13981-16-3	13981-16-3	15117-48-3	15117-48-3
	178 (21-21)												
24.9-24.9	299-W18-178 (24.9-24.9)	N	1981	--	--	--	--	--	--	0.13 =	0.11 =	--	--
29.9-29.9	299-W18-178 (29.9-29.9)	N	1981	--	--	--	--	--	--	0.22 =	0.19 =	--	--
35.1-35.1	299-W18-178 (35.1-35.1)	N	1981	--	--	--	--	--	--	0.12 =	0.10 =	--	--
4.9-4.9	299-W18-178 (4.9-4.9)	N	1981	--	--	--	--	--	--	0.11 =	0.093 =	--	--
40-40	299-W18-178 (40-40)	N	1981	--	--	--	--	--	--	0.0036 =	0.0030 =	--	--
9.8-9.8	299-W18-178 (9.8-9.8)	N	1981	--	--	--	--	--	--	0.051 =	0.043 =	--	--
Adjacent to 216-Z Ditches													
16.1-17.1	299-W18-186 (16.1-17.1)	N	1981	--	--	--	--	--	--	0.040 =	0.034 =	--	--
Adjacent to 216-Z Ditches													
16.4-16.4	299-W18-187 (16.4-16.4)	N	1981	--	--	--	--	--	--	0.034 =	0.029 =	--	--
Adjacent to 216-Z Ditches													
11.2-11.2	299-W18-197 (11.2-11.2)	N	1981	--	--	--	--	--	--	7.7 =	6.5 =	--	--
12.1-12.1	299-W18-197	N	1981	--	--	--	--	--	--	0.60 =	0.51 =	--	--

Table A-4d. 216-Z-11 Ditch Area Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Neptunium-237 (pCi/g)	Neptunium-237, Decayed (pCi/g)	Nickel-63 (pCi/g)	Nickel-63, Decayed (pCi/g)	Niobium-94 (pCi/g)	Niobium-94, Decayed (pCi/g)	Plutonium-238 (pCi/g)	Plutonium-238, Decayed (pCi/g)	Plutonium-239 (pCi/g)	Plutonium-239, Decayed (pCi/g)
				13994-20-2	13994-20-2	13981-37-8	13981-37-8	14681-63-1	14681-63-1	13981-16-3	13981-16-3	15117-48-3	15117-48-3
	(12.1-12.1)												
14.1-14.1	299-W18-197 (14.1-14.1)	N	1981	--	--	--	--	--	--	0.054 =	0.046 =	--	--
9.8-9.8	299-W18-197 (9.8-9.8)	N	1981	--	--	--	--	--	--	18 =	15 =	--	--
9.8-9.8	299-W18-197 (9.8-9.8) FD	N	1981	--	--	--	--	--	--	24 =	20 =	--	--
Adjacent to 216-Z Ditches													
12.1-12.1	299-W18-199 (12.1-12.1)	N	1981	--	--	--	--	--	--	0.021 =	0.018 =	--	--
Adjacent to 216-Z Ditches													
12.1-12.1	299-W18-200 (12.1-12.1)	N	1981	--	--	--	--	--	--	0.046 =	0.039 =	--	--

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
\- Not analyzed
= Detected

Table A-4e. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)	Radium-228 (pCi/g)	Radium-228, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)
				CAS Number									
				--	--	13966-00-2	13966-00-2	13982-63-3	13982-63-3	15262-20-1	15262-20-1	10098-97-2	10098-97-2
216-Z-11 Ditch													
3.9-3.9	299-W18-189 (3.9-3.9)	N	1981	350=	350=	--	--	--	--	--	--	--	--
3-3	299-W18-189 (3-3)	N	1981	330=	330=	--	--	--	--	--	--	--	--
3-3.9	299-W18-189 (3-3.9)	N	1981	3,200=	3,200=	--	--	--	--	--	--	--	--
4.9-4.9	299-W18-189 (4.9-4.9)	N	1981	34=	34=	--	--	--	--	--	--	--	--
5.9-5.9	299-W18-189 (5.9-5.9)	N	1981	2.2=	2.2=	--	--	--	--	--	--	--	--
216-Z-11 Ditch													
20-20	299-W18-193 (20-20)	N	1981	0.036=	0.036=	--	--	--	--	--	--	--	--
3.9-3.9	299-W18-193 (3.9-3.9)	N	1981	550=	550=	--	--	--	--	--	--	--	--
216-Z-11 Ditch													
16.1-16.1	299-W18-194 (16.1-16.1)	N	1981	0.044=	0.044=	--	--	--	--	--	--	--	--
2-2	299-W18-194 (2-2)	N	1981	15=	15=	--	--	--	--	--	--	--	--
3.9-3.9	299-W18-194 (3.9-3.9)	N	1981	26=	26=	--	--	--	--	--	--	--	--
3-3	299-W18-194 (3-3)	N	1981	40,000=	40,000=	--	--	--	--	--	--	--	--
216-Z-11 Ditch													
10.8-11.2	299-W18-195 (10.8-11.2)	N	1981	30=	30=	--	--	--	--	--	--	--	--

Table A-4e. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)	Radium-228 (pCi/g)	Radium-228, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)
				CAS Number									
				--	--	13966-00-2	13966-00-2	13982-63-3	13982-63-3	15262-20-1	15262-20-1	10098-97-2	10098-97-2
12.8-13.1	299-W18-195 (12.8-13.1)	N	1981	79=	79=	--	--	--	--	--	--	--	--
2.6-2.6	299-W18-195 (2.6-2.6)	N	1981	1,500=	1,500=	--	--	--	--	--	--	--	--
8.2-8.5	299-W18-195 (8.2-8.5)	N	1981	22,000=	22,000=	--	--	--	--	--	--	--	--
8.5-9.5	299-W18-195 (8.5-9.5)	N	1981	420=	420=	--	--	--	--	--	--	--	--
216-Z-11 Ditch													
2.5-5	B14DJ8	N	4/23/02	1.5=	1.5=	13=	13=	0.53=	0.53=	0.81=	0.81=	--	--
7.5-8.0	B14DJ9	N	4/24/02	52=	52=	--	--	--	--	--	--	--	--
8.0-8.5	B14DK0	N	4/24/02	2,780=	2,780=	--	--	--	--	--	--	--	--
8.5-9.0	B14DK1	N	4/24/02	3.2=	3.2=	--	--	--	--	--	--	--	--
9.0-9.5	B14DK2	N	4/24/02	25=	25=	--	--	--	--	--	--	--	--
9.5-10	B14JC5	N	4/24/02	2.6=	2.6=	--	--	--	--	--	--	--	--
7.5-10	B14DK3	N	4/24/02	--	--	13=	13=	1.1=	1.1=	--U	--U	--	--
10-12.5	B14DK4	N	4/24/02	1,850=	1,850=	16=	16=	0.68=	0.68=	--U	--U	--	--
10-12.5	B14DK6	D	4/24/02	2,390=	2,390=	15=	15=	--U	--U	--U	--U	--	--
10-12.5	B14DK7	S	4/24/02	2,230=	2,230=	--	--	0.67=	0.67=	0.82=	0.82=	--	--
10-10.5	B14JC6	N	4/24/02	4.0=	4.0=	--	--	--	--	--	--	--	--
10.5-11	B14JC7	N	4/24/02	0.53U	0.53U	--	--	--	--	--	--	--	--
11-11.5	B14JC8	N	4/24/02	0.46U	0.46U	--	--	--	--	--	--	--	--
11.5-12	B14JC9	N	4/24/02	22=	22=	--	--	--	--	--	--	--	--
12-12.5	B14JD1	N	4/25/02	4,840=	4,840=	--	--	--	--	--	--	--	--
12.5-15	B14DK5	N	4/25/02	68=	68=	9.4=	9.4=	0.56=	0.56=	0.69=	0.69=	--	--
15-17.5	B14DK8	N	4/25/02	49=	49=	8.2=	8.2=	0.29=	0.29=	0.44=	0.44=	--	--
22.5-25	B14DL1	N	5/1/02	0.11U	0.11U	9.7=	9.7=	0.31=	0.31=	0.49=	0.49=	--	--

Table A-4e. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)	Radium-228 (pCi/g)	Radium-228, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)
				CAS Number									
				--	--	13966-00-2	13966-00-2	13982-63-3	13982-63-3	15262-20-1	15262-20-1	10098-97-2	10098-97-2
50-52.5	B14DL2	N	5/3/02	0.12U	0.12U	9.0=	9.0=	0.29=	0.29=	0.37=	0.37=	--	--
99.5-102	B14DL3	N	5/7/02	0U	0U	13=	13=	0.56=	0.56=	0.99=	0.99=	--	--
112-114.7	B14DL4	N	5/8/02	0U	0U	15=	15=	0.61=	0.61=	1.1=	1.1=	--	--
152-154.5	B14DL5	N	5/10/02	0.035U	0.035U	11=	11=	0.46=	0.46=	0.75=	0.75=	--	--
199.8-202	B14DL6	N	5/15/02	0.063U	0.063U	12=	12=	0.36=	0.36=	0.62=	0.62=	--	--
220.7-223	B14KC7	N	5/17/02	0U	0U	10=	10=	0.24=	0.24=	0.58=	0.58=	--	--
216-Z-19 Ditch													
4-4	-200	N	5/1979	8,000=	8,000=	--	--	--	--	--	--	--	--
4-4	-100	N	5/1979	2,800=	2,800=	--	--	--	--	--	--	--	--
4-4	0	N	5/1979	1.30E+07=	1.30E+07=	--	--	--	--	--	--	--	--
4-4	100	N	5/1979	49,000=	49,000=	--	--	--	--	--	--	--	--
4-4	200	N	5/1979	1,800=	1,800=	--	--	--	--	--	--	--	--
5-5	300	N	5/1979	9,600=	9,600=	--	--	--	--	--	--	--	--
5-5	400	N	5/1979	19,000=	19,000=	--	--	--	--	--	--	--	--
5-5	500	N	5/1979	8,900=	8,900=	--	--	--	--	--	--	--	--
6-6	600	N	5/1979	19,000=	19,000=	--	--	--	--	--	--	--	--
6-6	700	N	5/1979	4,900=	4,900=	--	--	--	--	--	--	--	--
6-6	800	N	5/1979	2,100=	2,100=	--	--	--	--	--	--	--	--
6-6	900	N	5/1979	11,000=	11,000=	--	--	--	--	--	--	--	--
6-6	1000	N	5/1979	2,800=	2,800=	--	--	--	--	--	--	--	--
216-Z-19 Ditch													
2.2-2.5	1-A (2.2-2.5)	N	5/1979	4.0=	4.0=	--	--	--	--	--	--	--	--
2.5-3	1-A (2.5-3)	N	5/1979	1.1=	1.1=	--	--	--	--	--	--	--	--
2-2.2	1-A (2-2.2)	N	5/1979	4.0=	4.0=	--	--	--	--	--	--	--	--
3.5-3.7	1-B (3.5-3.7)	N	5/1979	3.2=	3.2=	--	--	--	--	--	--	--	--
3.7-4	1-B (3.7-4)	N	5/1979	3.2=	3.2=	--	--	--	--	--	--	--	--

Table A-4e. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)	Radium-228 (pCi/g)	Radium-228, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)
				CAS Number									
				--	--	13966-00-2	13966-00-2	13982-63-3	13982-63-3	15262-20-1	15262-20-1	10098-97-2	10098-97-2
4-4.5	1-B (4-4.5)	N	5/1979	5.0=	5.0=	--	--	--	--	--	--	--	--
5.7-6	1-C (5.7-6)	N	5/1979	150=	150=	--	--	--	--	--	--	--	--
5-5.2	1-C (5-5.2)	N	5/1979	5,100=	5,100=	--	--	--	--	--	--	--	--
3.5-3.7	1-D (3.5-3.7)	N	5/1979	150=	150=	--	--	--	--	--	--	--	--
3.7-4	1-D (3.7-4)	N	5/1979	1.5=	1.5=	--	--	--	--	--	--	--	--
4-4.5	1-D (4-4.5)	N	5/1979	0.70=	0.70=	--	--	--	--	--	--	--	--
2.2-2.5	1-E (2.2-2.5)	N	5/1979	0.70=	0.70=	--	--	--	--	--	--	--	--
2.5-3	1-E (2.5-3)	N	5/1979	1.1=	1.1=	--	--	--	--	--	--	--	--
2-2.2	1-E (2-2.2)	N	5/1979	0.70=	0.70=	--	--	--	--	--	--	--	--
4.3-5	1-E (4.3-5)	N	5/1979	26=	26=	--	--	--	--	--	--	--	--
2.2-2.5	1-F (2.2-2.5)	N	5/1979	2.9=	2.9=	--	--	--	--	--	--	--	--
2.5-3	1-F (2.5-3)	N	5/1979	0.41=	0.41=	--	--	--	--	--	--	--	--
2-2.2	1-F (2-2.2)	N	5/1979	2.9=	2.9=	--	--	--	--	--	--	--	--
2.2-2.5	1-G (2.2-2.5)	N	5/1979	5.0=	5.0=	--	--	--	--	--	--	--	--
2.5-3	1-G (2.5-3)	N	5/1979	0.67=	0.67=	--	--	--	--	--	--	--	--
2-2.2	1-G (2-2.2)	N	5/1979	5.0=	5.0=	--	--	--	--	--	--	--	--
3.2-3.5	2-A (3.2-3.5)	N	5/1979	510=	510=	--	--	--	--	--	--	0.96=	0.56=
3.5-4	2-A (3.5-4)	N	5/1979	1,600=	1,600=	--	--	--	--	--	--	--	--
3-3.2	2-A (3-3.2)	N	5/1979	510=	510=	--	--	--	--	--	--	0.96=	0.56=
4.3-5	2-A (4.3-5)	N	5/1979	120=	120=	--	--	--	--	--	--	--	--
4.5-4.7	2-B (4.5-4.7)	N	5/1979	1.8=	1.8=	--	--	--	--	--	--	1.0=	0.58=
4.7-5	2-B (4.7-5)	N	5/1979	1.8=	1.8=	--	--	--	--	--	--	1.0=	0.58=
5-5.5	2-B (5-5.5)	N	5/1979	3.7=	3.7=	--	--	--	--	--	--	--	--
6.2-7	2-C (6.2-7)	N	5/1979	320=	320=	--	--	--	--	--	--	--	--
6-6.2	2-C (6-6.2)	N	5/1979	1,300=	1,300=	--	--	--	--	--	--	--	--
4.5-4.7	2-D (4.5-4.7)	N	5/1979	3.0=	3.0=	--	--	--	--	--	--	0.90=	0.52=

Table A-4e. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)	Radium-228 (pCi/g)	Radium-228, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)
				CAS Number									
				--	--	13966-00-2	13966-00-2	13982-63-3	13982-63-3	15262-20-1	15262-20-1	10098-97-2	10098-97-2
4.7-5	2-D (4.7-5)	N	5/1979	3.0=	3.0=	--	--	--	--	--	--	0.90=	0.52=
5-5.5	2-D (5-5.5)	N	5/1979	0.80=	0.80=	--	--	--	--	--	--	--	--
3.2-3.5	2-E (3.2-3.5)	N	5/1979	0.50=	0.50=	--	--	--	--	--	--	--	--
3.5-4	2-E (3.5-4)	N	5/1979	4.0=	4.0=	--	--	--	--	--	--	--	--
3-3.2	2-E (3-3.2)	N	5/1979	0.50=	0.50=	--	--	--	--	--	--	--	--
4.3-5	2-E (4.3-5)	N	5/1979	5.9=	5.9=	--	--	--	--	--	--	--	--
3.2-3.5	2-F (3.2-3.5)	N	5/1979	12=	12=	--	--	--	--	--	--	--	--
3.5-4	2-F (3.5-4)	N	5/1979	2.2=	2.2=	--	--	--	--	--	--	--	--
3-3.2	2-F (3-3.2)	N	5/1979	12=	12=	--	--	--	--	--	--	--	--
3.2-3.5	2-G (3.2-3.5)	N	5/1979	150=	150=	--	--	--	--	--	--	--	--
3.5-4	2-G (3.5-4)	N	5/1979	32=	32=	--	--	--	--	--	--	--	--
3-3.2	2-G (3-3.2)	N	5/1979	150=	150=	--	--	--	--	--	--	--	--
4.2-4.5	3-A (4.2-4.5)	N	5/1979	2.0=	2.0=	--	--	--	--	--	--	--	--
4.5-5	3-A (4.5-5)	N	5/1979	0.40=	0.40=	--	--	--	--	--	--	--	--
4-4.2	3-A (4-4.2)	N	5/1979	2.0=	2.0=	--	--	--	--	--	--	--	--
5.5-5.7	3-B (5.5-5.7)	N	5/1979	3.6=	3.6=	--	--	--	--	--	--	1.0=	0.58=
5.7-6	3-B (5.7-6)	N	5/1979	3.6=	3.6=	--	--	--	--	--	--	1.0=	0.58=
6-6.5	3-B (6-6.5)	N	5/1979	0.80=	0.80=	--	--	--	--	--	--	--	--
7-7.2	3-C (7-7.2)	N	5/1979	32,000=	32,000=	--	--	--	--	--	--	--	--
5.5-5.7	3-D (5.5-5.7)	N	5/1979	6.6=	6.6=	--	--	--	--	--	--	1.0=	0.58=
5.7-6	3-D (5.7-6)	N	5/1979	6.6=	6.6=	--	--	--	--	--	--	1.0=	0.58=
6-6.5	3-D (6-6.5)	N	5/1979	2.0=	2.0=	--	--	--	--	--	--	--	--
4.2-4.5	3-E (4.2-4.5)	N	5/1979	1.0=	1.0=	--	--	--	--	--	--	--	--
4.5-5	3-E (4.5-5)	N	5/1979	4.0=	4.0=	--	--	--	--	--	--	--	--
4-4.2	3-E (4-4.2)	N	5/1979	1.0=	1.0=	--	--	--	--	--	--	--	--
5.3-6	3-E (5.3-6)	N	5/1979	14=	14=	--	--	--	--	--	--	--	--

Table A-4e. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)	Radium-228 (pCi/g)	Radium-228, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)
				CAS Number									
				--	--	13966-00-2	13966-00-2	13982-63-3	13982-63-3	15262-20-1	15262-20-1	10098-97-2	10098-97-2
4.2-4.5	3-F (4.2-4.5)	N	5/1979	4.6=	4.6=	--	--	--	--	--	--	--	--
4.5-5	3-F (4.5-5)	N	5/1979	0.97=	0.97=	--	--	--	--	--	--	--	--
4-4.2	3-F (4-4.2)	N	5/1979	4.6=	4.6=	--	--	--	--	--	--	--	--
4.2-4.5	3-G (4.2-4.5)	N	5/1979	24=	24=	--	--	--	--	--	--	--	--
4.5-5	3-G (4.5-5)	N	5/1979	0.51=	0.51=	--	--	--	--	--	--	--	--
4-4.2	3-G (4-4.2)	N	5/1979	24=	24=	--	--	--	--	--	--	--	--
4.2-4.5	4-A (4.2-4.5)	N	5/1979	7.0=	7.0=	--	--	--	--	--	--	0.73=	0.42=
4.5-5	4-A (4.5-5)	N	5/1979	0.60=	0.60=	--	--	--	--	--	--	--	--
4-4.2	4-A (4-4.2)	N	5/1979	7.0=	7.0=	--	--	--	--	--	--	0.73=	0.42=
5.5-5.7	4-B (5.5-5.7)	N	5/1979	4.0=	4.0=	--	--	--	--	--	--	3.4=	2.0=
5.7-6	4-B (5.7-6)	N	5/1979	4.0=	4.0=	--	--	--	--	--	--	3.4=	2.0=
6-6.5	4-B (6-6.5)	N	5/1979	1.0=	1.0=	--	--	--	--	--	--	--	--
7-7.2	4-C (7-7.2)	N	5/1979	98,000=	98,000=	--	--	--	--	--	--	--	--
9.6-9.8	4-C (9.6-9.8)	N	5/1979	7.4=	7.4=	--	--	--	--	--	--	--	--
5.5-5.7	4-D (5.5-5.7)	N	5/1979	2.0=	2.0=	--	--	--	--	--	--	1.0=	0.58=
5.7-6	4-D (5.7-6)	N	5/1979	2.0=	2.0=	--	--	--	--	--	--	--	--
6-6.5	4-D (6-6.5)	N	5/1979	1.7=	1.7=	--	--	--	--	--	--	--	--
4.2-4.5	4-E (4.2-4.5)	N	5/1979	0.70=	0.70=	--	--	--	--	--	--	--	--
4.5-5	4-E (4.5-5)	N	5/1979	3.1=	3.1=	--	--	--	--	--	--	--	--
4-4.2	4-E (4-4.2)	N	5/1979	0.70=	0.70=	--	--	--	--	--	--	--	--
5.3-6	4-E (5.3-6)	N	5/1979	11,000=	11,000=	--	--	--	--	--	--	--	--
4.2-4.5	4-F (4.2-4.5)	N	5/1979	1.7=	1.7=	--	--	--	--	--	--	--	--
4.5-5	4-F (4.5-5)	N	5/1979	0.44=	0.44=	--	--	--	--	--	--	--	--
4-4.2	4-F (4-4.2)	N	5/1979	1.7=	1.7=	--	--	--	--	--	--	--	--
4.2-4.5	4-G (4.2-4.5)	N	5/1979	0.60=	0.60=	--	--	--	--	--	--	--	--
4.5-5	4-G (4.5-5)	N	5/1979	0.33=	0.33=	--	--	--	--	--	--	--	--

Table A-4e. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)	Radium-228 (pCi/g)	Radium-228, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)
				CAS Number									
				--	--	13966-00-2	13966-00-2	13982-63-3	13982-63-3	15262-20-1	15262-20-1	10098-97-2	10098-97-2
4-4.2	4-G (4-4.2)	N	5/1979	0.60=	0.60=	--	--	--	--	--	--	--	--
3.2-3.5	5-A (3.2-3.5)	N	5/1979	2.6=	2.6=	--	--	--	--	--	--	--	--
3.5-4	5-A (3.5-4)	N	5/1979	0.80=	0.80=	--	--	--	--	--	--	--	--
3-3.2	5-A (3-3.2)	N	5/1979	2.6=	2.6=	--	--	--	--	--	--	--	--
4.5-4.7	5-B (4.5-4.7)	N	5/1979	0.44=	0.44=	--	--	--	--	--	--	--	--
4.7-5	5-B (4.7-5)	N	5/1979	0.44=	0.44=	--	--	--	--	--	--	--	--
5-5.5	5-B (5-5.5)	N	5/1979	0.91=	0.91=	--	--	--	--	--	--	--	--
6-6.2	5-C (6-6.2)	N	5/1979	11,000=	11,000=	--	--	--	--	--	--	--	--
8.6-9	5-C (8.6-9)	N	5/1979	28=	28=	--	--	--	--	--	--	--	--
4.5-4.7	5-D (4.5-4.7)	N	5/1979	0.87=	0.87=	--	--	--	--	--	--	--	--
4.7-5	5-D (4.7-5)	N	5/1979	0.87=	0.87=	--	--	--	--	--	--	--	--
5-5.5	5-D (5-5.5)	N	5/1979	1.1=	1.1=	--	--	--	--	--	--	--	--
3.2-3.5	5-E (3.2-3.5)	N	5/1979	0.65=	0.65=	--	--	--	--	--	--	--	--
3.5-4	5-E (3.5-4)	N	5/1979	3.0=	3.0=	--	--	--	--	--	--	--	--
3-3.2	5-E (3-3.2)	N	5/1979	0.65=	0.65=	--	--	--	--	--	--	--	--
4.3-5	5-E (4.3-5)	N	5/1979	22=	22=	--	--	--	--	--	--	--	--
3.2-3.5	5-F (3.2-3.5)	N	5/1979	9.8=	9.8=	--	--	--	--	--	--	--	--
3.5-4	5-F (3.5-4)	N	5/1979	11=	11=	--	--	--	--	--	--	--	--
3-3.2	5-F (3-3.2)	N	5/1979	9.8=	9.8=	--	--	--	--	--	--	--	--
3.2-3.5	5-G (3.2-3.5)	N	5/1979	1.8=	1.8=	--	--	--	--	--	--	--	--
3.5-4	5-G (3.5-4)	N	5/1979	0.70=	0.70=	--	--	--	--	--	--	--	--
3-3.2	5-G (3-3.2)	N	5/1979	1.8=	1.8=	--	--	--	--	--	--	--	--
6.2-6.5	6-A (6.2-6.5)	N	5/1979	0.70=	0.70=	--	--	--	--	--	--	--	--
6.5-7	6-A (6.5-7)	N	5/1979	2.7=	2.7=	--	--	--	--	--	--	--	--
6-6.2	6-A (6-6.2)	N	5/1979	0.70=	0.70=	--	--	--	--	--	--	--	--
7.5-7.7	6-B (7.5-7.7)	N	5/1979	0.56=	0.56=	--	--	--	--	--	--	--	--

Table A-4e. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)	Radium-228 (pCi/g)	Radium-228, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)
				CAS Number									
				--	--	13966-00-2	13966-00-2	13982-63-3	13982-63-3	15262-20-1	15262-20-1	10098-97-2	10098-97-2
7.7-8	6-B (7.7-8)	N	5/1979	0.56=	0.56=	--	--	--	--	--	--	--	--
8-8.5	6-B (8-8.5)	N	5/1979	0.60=	0.60=	--	--	--	--	--	--	--	--
10.6-11	6-C (10.6-11)	N	5/1979	150,000=	150,000=	--	--	--	--	--	--	--	--
11.6-12	6-C (11.6-12)	N	5/1979	1.8=	1.8=	--	--	--	--	--	--	--	--
9.7-10	6-C (9.7-10)	N	5/1979	300=	300=	--	--	--	--	--	--	--	--
9-9.2	6-C (9-9.2)	N	5/1979	25,000=	25,000=	--	--	--	--	--	--	--	--
7.5-7.7	6-D (7.5-7.7)	N	5/1979	2.7=	2.7=	--	--	--	--	--	--	--	--
7.7-8	6-D (7.7-8)	N	5/1979	2.7=	2.7=	--	--	--	--	--	--	--	--
8-8.5	6-D (8-8.5)	N	5/1979	1.2=	1.2=	--	--	--	--	--	--	--	--
6.2-6.5	6-E (6.2-6.5)	N	5/1979	1.4=	1.4=	--	--	--	--	--	--	--	--
6.5-7	6-E (6.5-7)	N	5/1979	1.4=	1.4=	--	--	--	--	--	--	--	--
6-6.2	6-E (6-6.2)	N	5/1979	1.4=	1.4=	--	--	--	--	--	--	--	--
7.3-8	6-E (7.3-8)	N	5/1979	4.6=	4.6=	--	--	--	--	--	--	--	--
6.2-6.5	6-F (6.2-6.5)	N	5/1979	14=	14=	--	--	--	--	--	--	--	--
6.5-7	6-F (6.5-7)	N	5/1979	0.60=	0.60=	--	--	--	--	--	--	--	--
6-6.2	6-F (6-6.2)	N	5/1979	14=	14=	--	--	--	--	--	--	--	--
6.2-6.5	6-G (6.2-6.5)	N	5/1979	4.0=	4.0=	--	--	--	--	--	--	--	--
6.5-7	6-G (6.5-7)	N	5/1979	2.0=	2.0=	--	--	--	--	--	--	--	--
6-6.2	6-G (6-6.2)	N	5/1979	4.0=	4.0=	--	--	--	--	--	--	--	--
5.2-5.5	7-A (5.2-5.5)	N	5/1979	8.5=	8.5=	--	--	--	--	--	--	--	--
5.5-6	7-A (5.5-6)	N	5/1979	50=	50=	--	--	--	--	--	--	--	--
5-5.2	7-A (5-5.2)	N	5/1979	8.5=	8.5=	--	--	--	--	--	--	--	--
6.5-6.7	7-B (6.5-6.7)	N	5/1979	2,400=	2,400=	--	--	--	--	--	--	--	--
6.7-7	7-B (6.7-7)	N	5/1979	2,400=	2,400=	--	--	--	--	--	--	--	--
7-7.5	7-B (7-7.5)	N	5/1979	2.2=	2.2=	--	--	--	--	--	--	--	--
10-10.3	7-C (10-10.3)	N	5/1979	69=	69=	--	--	--	--	--	--	--	--

Table A-4e. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)	Radium-228 (pCi/g)	Radium-228, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)
				CAS Number									
				--	--	13966-00-2	13966-00-2	13982-63-3	13982-63-3	15262-20-1	15262-20-1	10098-97-2	10098-97-2
8.7-9	7-C (8.7-9)	N	5/1979	8,000=	8,000=	--	--	--	--	--	--	--	--
8-8.2	7-C (8-8.2)	N	5/1979	8,200=	8,200=	--	--	--	--	--	--	--	--
6.5-6.7	7-D (6.5-6.7)	N	5/1979	6.1=	6.1=	--	--	--	--	--	--	--	--
6.7-7	7-D (6.7-7)	N	5/1979	6.1=	6.1=	--	--	--	--	--	--	--	--
7-7.5	7-D (7-7.5)	N	5/1979	1.4=	1.4=	--	--	--	--	--	--	--	--
5.2-5.5	7-E (5.2-5.5)	N	5/1979	1.1=	1.1=	--	--	--	--	--	--	--	--
5.5-6	7-E (5.5-6)	N	5/1979	2.5=	2.5=	--	--	--	--	--	--	--	--
5-5.2	7-E (5-5.2)	N	5/1979	1.1=	1.1=	--	--	--	--	--	--	--	--
6.3-7	7-E (6.3-7)	N	5/1979	27=	27=	--	--	--	--	--	--	--	--
5.2-5.5	7-F (5.2-5.5)	N	5/1979	21=	21=	--	--	--	--	--	--	--	--
5.5-6	7-F (5.5-6)	N	5/1979	440=	440=	--	--	--	--	--	--	--	--
5-5.2	7-F (5-5.2)	N	5/1979	21=	21=	--	--	--	--	--	--	--	--
5.2-5.5	7-G (5.2-5.5)	N	5/1979	7.6=	7.6=	--	--	--	--	--	--	--	--
5.5-6	7-G (5.5-6)	N	5/1979	2.0=	2.0=	--	--	--	--	--	--	--	--
5-5.2	7-G (5-5.2)	N	5/1979	7.6=	7.6=	--	--	--	--	--	--	--	--
2.2-2.5	8-A (2.2-2.5)	N	5/1979	11=	11=	--	--	--	--	--	--	--	--
2.5-3	8-A (2.5-3)	N	5/1979	8.4=	8.4=	--	--	--	--	--	--	--	--
2-2.2	8-A (2-2.2)	N	5/1979	11=	11=	--	--	--	--	--	--	--	--
3.5-3.7	8-B (3.5-3.7)	N	5/1979	5.7=	5.7=	--	--	--	--	--	--	--	--
3.7-4	8-B (3.7-4)	N	5/1979	5.7=	5.7=	--	--	--	--	--	--	--	--
4-4.5	8-B (4-4.5)	N	5/1979	2.3=	2.3=	--	--	--	--	--	--	--	--
5.7-6	8-C (5.7-6)	N	5/1979	8,600=	8,600=	--	--	--	--	--	--	--	--
5-5.2	8-C (5-5.2)	N	5/1979	160=	160=	--	--	--	--	--	--	--	--
6.6-6.6	8-C (6.6-6.6)	N	5/1979	120=	120=	--	--	--	--	--	--	--	--
3.5-3.7	8-D (3.5-3.7)	N	5/1979	4.5=	4.5=	--	--	--	--	--	--	--	--
3.7-4	8-D (3.7-4)	N	5/1979	4.5=	4.5=	--	--	--	--	--	--	--	--

Table A-4e. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)	Radium-228 (pCi/g)	Radium-228, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)
				CAS Number									
				--	--	13966-00-2	13966-00-2	13982-63-3	13982-63-3	15262-20-1	15262-20-1	10098-97-2	10098-97-2
4-4.5	8-D (4-4.5)	N	5/1979	0.78=	0.78=	--	--	--	--	--	--	--	--
2.2-2.5	8-E (2.2-2.5)	N	5/1979	1,000=	1,000=	--	--	--	--	--	--	--	--
2.5-3	8-E (2.5-3)	N	5/1979	30=	30=	--	--	--	--	--	--	--	--
2-2.2	8-E (2-2.2)	N	5/1979	1,000=	1,000=	--	--	--	--	--	--	--	--
3.3-4	8-E (3.3-4)	N	5/1979	130=	130=	--	--	--	--	--	--	--	--
2.2-2.5	8-F (2.2-2.5)	N	5/1979	77=	77=	--	--	--	--	--	--	--	--
2.5-3	8-F (2.5-3)	N	5/1979	49=	49=	--	--	--	--	--	--	--	--
2-2.2	8-F (2-2.2)	N	5/1979	77=	77=	--	--	--	--	--	--	--	--
2.2-2.5	8-G (2.2-2.5)	N	5/1979	3.2=	3.2=	--	--	--	--	--	--	--	--
2.5-3	8-G (2.5-3)	N	5/1979	14=	14=	--	--	--	--	--	--	--	--
2-2.2	8-G (2-2.2)	N	5/1979	3.2=	3.2=	--	--	--	--	--	--	--	--
4.2-4.5	9-A (4.2-4.5)	N	5/1979	4.2=	4.2=	--	--	--	--	--	--	--	--
4.5-5	9-A (4.5-5)	N	5/1979	2.6=	2.6=	--	--	--	--	--	--	--	--
4-4.2	9-A (4-4.2)	N	5/1979	4.2=	4.2=	--	--	--	--	--	--	--	--
5.3-6	9-A (5.3-6)	N	5/1979	67=	67=	--	--	--	--	--	--	--	--
5.5-5.7	9-B (5.5-5.7)	N	5/1979	100=	100=	--	--	--	--	--	--	--	--
5.7-6	9-B (5.7-6)	N	5/1979	100=	100=	--	--	--	--	--	--	--	--
6-6.5	9-B (6-6.5)	N	5/1979	2.0=	2.0=	--	--	--	--	--	--	--	--
7.7-8	9-C (7.7-8)	N	5/1979	200=	200=	--	--	--	--	--	--	--	--
7-7.3	9-C (7-7.3)	N	5/1979	580=	580=	--	--	--	--	--	--	--	--
9.3-9.6	9-C (9.3-9.6)	N	5/1979	250=	250=	--	--	--	--	--	--	--	--
5.5-5.7	9-D (5.5-5.7)	N	5/1979	47=	47=	--	--	--	--	--	--	--	--
5.7-6	9-D (5.7-6)	N	5/1979	47=	47=	--	--	--	--	--	--	--	--
6-6.5	9-D (6-6.5)	N	5/1979	13=	13=	--	--	--	--	--	--	--	--
4.2-4.5	9-E (4.2-4.5)	N	5/1979	17=	17=	--	--	--	--	--	--	--	--
4.5-5	9-E (4.5-5)	N	5/1979	27=	27=	--	--	--	--	--	--	--	--

Table A-4e. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)	Radium-228 (pCi/g)	Radium-228, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)
				CAS Number									
				--	--	13966-00-2	13966-00-2	13982-63-3	13982-63-3	15262-20-1	15262-20-1	10098-97-2	10098-97-2
4-4.2	9-E (4-4.2)	N	5/1979	17=	17=	--	--	--	--	--	--	--	--
5.3-6	9-E (5.3-6)	N	5/1979	110=	110=	--	--	--	--	--	--	--	--
4.2-4.5	9-F (4.2-4.5)	N	5/1979	10=	10=	--	--	--	--	--	--	--	--
4.5-5	9-F (4.5-5)	N	5/1979	1.0=	1.0=	--	--	--	--	--	--	--	--
4-4.2	9-F (4-4.2)	N	5/1979	10=	10=	--	--	--	--	--	--	--	--
4.2-4.5	9-G (4.2-4.5)	N	5/1979	27=	27=	--	--	--	--	--	--	--	--
4.5-5	9-G (4.5-5)	N	5/1979	0.40=	0.40=	--	--	--	--	--	--	--	--
4-4.2	9-G (4-4.2)	N	5/1979	27=	27=	--	--	--	--	--	--	--	--
216-Z-1 D Ditch													
7-7	Z-19 Ditch East Bank 100 ft N	N	3/24/76	--	--	12=	12=	0.42=	0.42=	--	--	--	--
7-7	Z-19 Ditch East Bank 200 ft S1	N	3/24/76	--	--	13=	13=	0.53=	0.53=	--	--	56=	30=
7-7	Z-19 Ditch Near 16th Street-27	N	4/21/76	--	--	130,000=	130,000=	5,200=	5,200=	--	--	--	--
7-7	Z-19 Ditch NW Bank at U-pond I	N	3/24/76	--	--	12=	12=	0.52=	0.52=	--	--	114=	61=
7-7	Z-19 Ditch Outfall (head)-2787	N	4/21/76	--	--	11=	11=	0.40=	0.40=	--	--	--	--
7-7	Z-19 Ditch U-pond Inlet (delta	N	4/21/76	--	--	130,000=	130,000=	5,000=	5,000=	--	--	--	--
7-7	Z-19 Ditch West Bank 500 ft-27	N	3/24/76	--	--	12=	12=	0.47=	0.47=	--	--	402=	216=
7-7	Z-19 Ditch West Bank Head-2784	N	3/24/76	--	--	11=	11=	0.43=	0.43=	--	--	198=	107=
7-7	Z-19 Ditch-16th street crossing	N	1979	35=	35=	1.7=	1.7=	--	--	--	--	3.5U	3.5U

Table A-4e. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)	Radium-228 (pCi/g)	Radium-228, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)
				CAS Number									
				--	--	13966-00-2	13966-00-2	13982-63-3	13982-63-3	15262-20-1	15262-20-1	10098-97-2	10098-97-2
7-7	Z-19 Ditch-1977	N	1977	6,570=	6,570=	--	--	--	--	--	--	1.0=	0.55=
7-7	Z-19 Ditch-231-Z outfall-1979	N	1979	4.2=	4.2=	16=	16=	--	--	--	--	9.6U	9.6U
7-7	Z-19 Ditch-234-5 Outfall-1979	N	1979	2,010=	2,010=	13=	13=	--	--	--	--	8.5U	8.5U
7-7	Z-19 Ditch-High-1978	N	1978	7,304=	7,304=	--	--	--	--	--	--	1.4=	0.79=
7-7	Z-19 Ditch-inlet to U-pond-197	N	1979	5,930=	5,930=	8.9=	8.9=	--	--	--	--	8.7U	8.7U
7-7	Z-19 Ditch-Low-1978	N	1978	116=	116=	--	--	--	--	--	--	0.50=	0.28=
216-Z-1D Ditch													
13.1-13.1	299-W18-188 (13.1-13.1)	N	1981	0.31=	0.31=	--	--	--	--	--	--	--	--
6.9-6.9	299-W18-188 (6.9-6.9)	N	1981	2.9=	2.9=	--	--	--	--	--	--	--	--
7.9-7.9	299-W18-188 (7.9-7.9)	N	1981	270,000=	270,000=	--	--	--	--	--	--	--	--
8.9-8.9	299-W18-188 (8.9-8.9)	N	1981	170=	170=	--	--	--	--	--	--	--	--
6.9-6.9	299-W18-188 FD (6.9-6.9)	FD	1981	2.1=	2.1=	--	--	--	--	--	--	--	--
7.9-7.9	299-W18-188 FD (7.9-7.9)	FD	1981	180,000=	180,000=	--	--	--	--	--	--	--	--
10.5-11.2	299-W18-192 (10.5-11.2)	N	1981	78=	78=	--	--	--	--	--	--	--	--
13.1-13.1	299-W18-192 (13.1-13.1)	N	1981	880=	880=	--	--	--	--	--	--	--	--
14.1-14.1	299-W18-192 (14.1-14.1)	N	1981	14=	14=	--	--	--	--	--	--	--	--

Table A-4e. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)	Radium-228 (pCi/g)	Radium-228, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)
				CAS Number									
				--	--	13966-00-2	13966-00-2	13982-63-3	13982-63-3	15262-20-1	15262-20-1	10098-97-2	10098-97-2
20-20	299-W18-192 (20-20)	N	1981	0.036=	0.036=	--	--	--	--	--	--	--	--
5.9-5.9	299-W18-192 (5.9-5.9)	N	1981	0.54=	0.54=	--	--	--	--	--	--	--	--
6.9-6.9	299-W18-192 (6.9-6.9)	N	1981	520=	520=	--	--	--	--	--	--	--	--
7.9-7.9	299-W18-192 (7.9-7.9)	N	1981	87=	87=	--	--	--	--	--	--	--	--
8.9-8.9	299-W18-192 (8.9-8.9)	N	1981	160=	160=	--	--	--	--	--	--	--	--
9.8-9.8	299-W18-192 (9.8-9.8)	N	1981	53=	53=	--	--	--	--	--	--	--	--
6.9-6.9	299-W18-192 FD (6.9-6.9)	FD	1981	380,000=	380,000=	--	--	--	--	--	--	--	--
7.9-7.9	299-W18-192 FD (7.9-7.9)	FD	1981	890=	890=	--	--	--	--	--	--	--	--
Adjacent to 216-Z Ditches													
16.1-16.1	299-W15-203 (16.1-16.1)	N	1981	0.020=	0.020=	--	--	--	--	--	--	--	--
5.9-5.9	299-W15-203 (5.9-5.9)	N	1981	22=	22=	--	--	--	--	--	--	--	--
Adjacent to 216-Z Ditches													
4.9-5.9	299-W15-204 (4.9-5.9)	N	1981	68=	68=	--	--	--	--	--	--	--	--
8.9-8.9	299-W15-204 (8.9-8.9)	N	1981	0.97=	0.97=	--	--	--	--	--	--	--	--
Adjacent to 216-Z Ditches													
15.1-15.1	299-W18-177 (15.1-15.1)	N	1981	0.44=	0.44=	--	--	--	--	--	--	--	--

Table A-4e. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)	Radium-228 (pCi/g)	Radium-228, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)
				CAS Number									
				--	--	13966-00-2	13966-00-2	13982-63-3	13982-63-3	15262-20-1	15262-20-1	10098-97-2	10098-97-2
19-19	299-W18-177 (19-19)	N	1981	0.019=	0.019=	--	--	--	--	--	--	--	--
20-20	299-W18-177 (20-20)	N	1981	0.26=	0.26=	--	--	--	--	--	--	--	--
24.9-24.9	299-W18-177 (24.9-24.9)	N	1981	0.14=	0.14=	--	--	--	--	--	--	--	--
29.9-29.9	299-W18-177 (29.9-29.9)	N	1981	0.41=	0.41=	--	--	--	--	--	--	--	--
35.1-35.1	299-W18-177 (35.1-35.1)	N	1981	0.44=	0.44=	--	--	--	--	--	--	--	--
4.9-4.9	299-W18-177 (4.9-4.9)	N	1981	0.34=	0.34=	--	--	--	--	--	--	--	--
40-40	299-W18-177 (40-40)	N	1981	0.40=	0.40=	--	--	--	--	--	--	--	--
45.9-45.9	299-W18-177 (45.9-45.9)	N	1981	0.22=	0.22=	--	--	--	--	--	--	--	--
7.9-7.9	299-W18-177 (7.9-7.9)	N	1981	0.0010=	0.0010=	--	--	--	--	--	--	--	--
8.9-8.9	299-W18-177 (8.9-8.9)	N	1981	0.21=	0.21=	--	--	--	--	--	--	--	--
Adjacent to 216-Z Ditches													
15.1-15.1	299-W18-178 (15.1-15.1)	N	1981	0.38=	0.38=	--	--	--	--	--	--	--	--
18-18	299-W18-178 (18-18)	N	1981	0.23=	0.23=	--	--	--	--	--	--	--	--
21-21	299-W18-178 (21-21)	N	1981	0.22=	0.22=	--	--	--	--	--	--	--	--
24.9-24.9	299-W18-178 (24.9-24.9)	N	1981	0.27=	0.27=	--	--	--	--	--	--	--	--
29.9-29.9	299-W18-178 (29.9-29.9)	N	1981	0.27=	0.27=	--	--	--	--	--	--	--	--

Table A-4e. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)	Radium-228 (pCi/g)	Radium-228, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)
				CAS Number									
				--	--	13966-00-2	13966-00-2	13982-63-3	13982-63-3	15262-20-1	15262-20-1	10098-97-2	10098-97-2
35.1-35.1	299-W18-178 (35.1-35.1)	N	1981	0.45=	0.45=	--	--	--	--	--	--	--	--
4.9-4.9	299-W18-178 (4.9-4.9)	N	1981	0.28=	0.28=	--	--	--	--	--	--	--	--
40-40	299-W18-178 (40-40)	N	1981	0.041=	0.041=	--	--	--	--	--	--	--	--
9.8-9.8	299-W18-178 (9.8-9.8)	N	1981	0.19=	0.19=	--	--	--	--	--	--	--	--
Adjacent to 216-Z Ditches													
16.1-17.1	299-W18-186 (16.1-17.1)	N	1981	0.044=	0.044=	--	--	--	--	--	--	--	--
Adjacent to 216-Z Ditches													
16.4-16.4	299-W18-187 (16.4-16.4)	N	1981	0.037=	0.037=	--	--	--	--	--	--	--	--
Adjacent to 216-Z Ditches													
11.2-11.2	299-W18-197 (11.2-11.2)	N	1981	170=	170=	--	--	--	--	--	--	--	--
12.1-12.1	299-W18-197 (12.1-12.1)	N	1981	2.5=	2.5=	--	--	--	--	--	--	--	--
14.1-14.1	299-W18-197 (14.1-14.1)	N	1981	0.45=	0.45=	--	--	--	--	--	--	--	--
9.8-9.8	299-W18-197 (9.8-9.8)	N	1981	560=	560=	--	--	--	--	--	--	--	--
9.8-9.8	299-W18-197 (9.8-9.8) FD	N	1981	700=	700=	--	--	--	--	--	--	--	--
Adjacent to 216-Z Ditches													
12.1-12.1	299-W18-199 (12.1-12.1)	N	1981	0.019=	0.019=	--	--	--	--	--	--	--	--
Adjacent to 216-Z Ditches													

Table A-4e. 216-Z-11 Ditch Area Radionuclides Analytical Data. (16 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)	Radium-228 (pCi/g)	Radium-228, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)
				CAS Number									
				--	--	13966-00-2	13966-00-2	13982-63-3	13982-63-3	15262-20-1	15262-20-1	10098-97-2	10098-97-2
12.1-12.1	299-W18-200 (12.1-12.1)	N	1981	0.026=	0.026=	--	--	--	--	--	--	--	--

CAS = Chemical Abstracts Service
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- Not analyzed
= Detected

Table A-4f. 216-Z-11 Ditch Area Radionuclides Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Technetium-99 (pCi/g)	Technetium-99, Decayed (pCi/g)	Thorium-228 (pCi/g)	Thorium-228, Decayed (pCi/g)	Thorium-230 (pCi/g)	Thorium-230, Decayed (pCi/g)	Thorium-232 (pCi/g)	Thorium-232, Decayed (pCi/g)	Total Beta Radio-Strontium (pCi/g)	Total Beta Radio-Strontium, Decayed (pCi/g)
				CAS Number									
				14133-76-7	14133-76-7	14274-82-9	14274-82-9	14269-63-7	14269-63-7	7440-29-1	7440-29-1	--	--
216-Z-11 Ditch													
2.5-5	B14DJ8	N	4/23/02	-4.00E-02U	-4.00E-02U	0.66=	0.66=	0.50J	0.50J	0.71J	0.71J	-7.30E-02U	-7.30E-02U
7.5-10	B14DK3	N	4/24/02	--	--	1.8U	1.8U	6.3B	6.3B	0.70U	0.70U	1.10E+01 -U	1.10E+01 -U
10-12.5	B14DK4	N	4/24/02	--	--	0.47U	0.47U	8.4BX	8.4BX	1.7U	1.7U	4.40E+00 -U	4.40E+00 -U
10-12.5	B14DK6	D	4/24/02	--	--	1.6U	1.6U	6.8BX	6.8BX	0.35U	0.35U	3.08E+00 -U	3.08E+00 -U
10-12.5	B14DK7	S	4/24/02	--	--	1.5=	1.5=	0.70U	0.70U	0.71U	0.71U	2.5U	2.5U
12.5-15	B14DK5	N	4/25/02	--	--	1.1U	1.1U	1.1U	1.1U	0.79U	0.79U	2.7=	2.7=
15-17.5	B14DK8	N	4/25/02	--	--	0.61=	0.61=	1.2B	1.2B	0.48J	0.48J	-3.88E-01U	-3.88E-01U
22.5-25	B14DL1	N	5/1/02	-4.60E-02U	-4.60E-02U	0.37=	0.37=	0.52J	0.52J	0.48J	0.48J	-8.00E-03U	-8.00E-03U
50-52.5	B14DL2	N	5/3/02	-7.40E-02U	-7.40E-02U	0.41=	0.41=	0.47J	0.47J	0.30J	0.30J	-1.51E-01U	-1.51E-01U
99.5-102	B14DL3	N	5/7/02	-6.80E-02U	-6.80E-02U	0.60=	0.60=	0.63J	0.63J	1.00J	1.00J	-1.10E-02U	-1.10E-02U
112-114.7	B14DL4	N	5/8/02	-5.10E-02U	-5.10E-02U	0.96=	0.96=	0.85J	0.85J	0.63J	0.63J	-3.10E-02U	-3.10E-02U
152-154.5	B14DL5	N	5/10/02	-6.60E-02U	-6.60E-02U	0.17U	0.17U	0.33J	0.33J	0.28J	0.28J	-1.02E-01U	-1.02E-01U
199.8-202	B14DL6	N	5/15/02	0.18U	0.18U	0.30U	0.30U	0.43J	0.43J	0.59J	0.59J	-5.00E-03U	-5.00E-03U
220.7-223	B14KC7	N	5/17/02	0.17U	0.17U	0.78=	0.78=	0.49J	0.49J	0.70J	0.70J	-1.32E-01U	-1.32E-01U

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\- Not analyzed
= Detected

Table A-4g. 216-Z-11 Ditch Area Radionuclides Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Tritium (pCi/g)	Tritium, Decayed (pCi/g)	Uranium-233/234 (pCi/g)	Uranium-233/234, Decayed (pCi/g)	Uranium-234 (pCi/g)	Uranium-234, Decayed (pCi/g)	Uranium-235 (pCi/g)	Uranium-235, Decayed (pCi/g)	Uranium-238 (pCi/g)	Uranium-238, Decayed (pCi/g)
				CAS Number									
				10028-17-8	10028-17-8	--	--	13966-29-5	13966-29-5	15117-96-1	15117-96-1	7440-61-1	7440-61-1
216-Z-11 Ditch													
2.5-5	B14DJ8	N	4/23/02	-2.70E-02 U	-2.70E-02 U	0.36J	0.36J	--	--	0.069U	0.069U	0.44J	0.44J
7.5-10	B14DK3	N	4/24/02	-1.29E-01U	-1.29E-01U	2.5U	2.5U	--	--	0U	0U	1.2U	1.2U
10-12.5	B14DK4	N	4/24/02	-5.20E-02U	-5.20E-02U	2.1U	2.1U	--	--	0U	0U	1.1U	1.1U
10-12.5	B14DK6	D	4/24/02	0.066U	0.066U	0U	0U	--	--	2.5U	2.5U	3.1U	3.1U
10-12.5	B14DK7	S	4/24/02	-1.36E-02U	-1.36E-02U	--	--	0.93=	0.93=	-1.32E-02U	-1.32E-02U	1.3=	1.3=
12.5-15	B14DK5	N	4/25/02	-6.00E-03U	-6.00E-03U	0.68U	0.68U	--	--	0U	0U	0.77J	0.77J
15-17.5	B14DK8	N	4/25/02	-1.80E-02U	-1.80E-02U	0.45U	0.45U	--	--	0U	0U	0.82J	0.82J
22.5-25	B14DL1	N	5/1/02	-1.50E-02U	-1.50E-02U	0.53J	0.53J	--	--	0.044U	0.044U	0.37J	0.37J
50-52.5	B14DL2	N	5/3/02	-2.40E-02U	-2.40E-02U	0.44J	0.44J	--	--	0U	0U	0.42J	0.42J
99.5-102	B14DL3	N	5/7/02	0.079U	0.079U	0.64J	0.64J	--	--	0.057U	0.057U	0.64J	0.64J
112-114.7	B14DL4	N	5/8/02	0.079U	0.079U	0.44J	0.44J	--	--	-1.50E-02U	-1.50E-02U	0.63J	0.63J
152-154.5	B14DL5	N	5/10/02	-6.00E-03U	-6.00E-03U	0.39J	0.39J	--	--	0.063U	0.063U	0.63J	0.63J
199.8-202	B14DL6	N	5/15/02	-2.70E-02U	-2.70E-02U	0.39J	0.39J	--	--	0U	0U	0.43J	0.43J
220.7-223	B14KC7	N	5/17/02	0.13U	0.13U	0.30J	0.30J	--	--	0U	0U	0.26J	0.26J

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= Detected

Table A-5a. 216-Z-11 Ditch Area Semivolatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	1,2,4-Trichloro-benzene (mg/kg)	1,2-Dichloro-benzene (mg/kg)	1,3-Dichloro-benzene (mg/kg)	1,4-Dichloro-benzene (mg/kg)	2,4,5-Trichloro-phenol (mg/kg)	2,4,6-Trichloro-phenol (mg/kg)	2,4-D (mg/kg)	2,4-Dichloro-phenol (mg/kg)	2,4-Dimethyl-phenol (mg/kg)	2,4-Dinitro-phenol (mg/kg)	2,4-Dinitro-toluene (mg/kg)	2,6-Dinitro-toluene (mg/kg)
				CAS Number											
				120-82-1	95-50-1	541-73-1	106-46-7	95-95-4	88-06-2	94-75-7	120-83-2	105-67-9	51-28-5	121-14-2	606-20-2
2.5-5	B14DJ8	N	4/23/02	0.33U	0.33U	0.33U	0.33U	0.83U	0.33U	0.036U	0.33U	0.33U	0.83U	0.33U	0.33U
10-12.5	B14DK4	N	4/24/02	0.38U	0.38U	0.38U	0.38U	0.95U	0.38U	--	0.38U	0.38U	0.95U	0.38U	0.38U
12.5-15	B14DK5	N	4/25/02	0.36U	0.36U	0.36U	0.36U	0.89U	0.36U	--	0.36U	0.36U	0.89U	0.36U	0.36U
12.5-15	B14DK9	D	4/25/02	0.35U	0.35U	0.35U	0.35U	0.88U	0.35U	--	0.35U	0.35U	0.88U	0.35U	0.35U
12.5-15	B14DL0	S	4/25/02	0.064U	0.038U	0.035U	0.032U	0.10U	0.094U	--	0.077U	0.071U	0.058U	0.078U	0.066U
15-17.5	B14DK8	N	4/25/02	0.35U	0.35U	0.35U	0.35U	0.86U	0.35U	--	0.35U	0.35U	0.86U	0.35U	0.35U
22.5-25	B14DL1	N	5/1/02	0.33U	0.33U	0.33U	0.33U	0.83U	0.33U	--	0.33U	0.33U	0.83U	0.33U	0.33U
50-52.5	B14DL2	N	5/3/02	0.33U	0.33U	0.33U	0.33U	0.83U	0.33U	--	0.33U	0.33U	0.83U	0.33U	0.33U
99.5-102	B14DL3	N	5/7/02	0.37U	0.37U	0.37U	0.37U	0.92U	0.37U	--	0.37U	0.37U	0.92U	0.37U	0.37U
112-114.7	B14DL4	N	5/8/02	0.0050U	0.0050U	0.0050U	0.0050U	0.90U	0.36U	--	0.36U	0.36U	0.90U	0.36U	0.36U
152-154.5	B14DL5	N	5/10/02	0.0060U	0.0060U	0.0060U	0.0060U	0.87U	0.35U	--	0.35U	0.35U	0.87U	0.35U	0.35U
199.8-202	B14DL6	N	5/15/02	0.34U	0.34U	0.34U	0.34U	0.86U	0.34U	--	0.34U	0.34U	0.86U	0.34U	0.34U
220.7-223	B14KC7	N	5/17/02	0.37U	0.37U	0.37U	0.37U	0.92U	0.37U	--	0.37U	0.37U	0.92U	0.37U	0.37U

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\- Not analyzed

Table A-5b. 216-Z-11 Ditch Area Semivolatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	2-Chloro-naph-thalene (mg/kg)	2-Chloro-phenol (mg/kg)	2-Methyl-naph-thalene (mg/kg)	2-Methyl-phenol (cresol, o-) (mg/kg)	2-Nitro-aniline (mg/kg)	2-Nitro-phenol (mg/kg)	3,3'-Dichloro-benzidine (mg/kg)	3-Nitro-aniline (mg/kg)	4,6-Dinitro-2-Methyl-phenol (mg/kg)	4-Bromo-phenyl-phenyl ether (mg/kg)	4-Chloro-3-Methyl-phenol (mg/kg)
				91-58-7	95-57-8	91-57-6	95-48-7	88-74-4	88-75-5	91-94-1	99-09-2	534-52-1	BPPE4	59-50-7
2.5-5	B14DJ8	N	4/23/02	0.33U	0.33U	0.33U	0.33U	0.83U	0.33U	0.33U	0.83U	0.83U	0.33U	0.33U
10-12.5	B14DK4	N	4/24/02	0.38U	0.38U	0.38U	0.38U	0.95U	0.38U	0.38U	0.95U	0.95U	0.38U	0.38U
12.5-15	B14DK5	N	4/25/02	0.36U	0.36U	0.36U	0.36U	0.89U	0.36U	0.36U	0.89U	0.89U	0.36U	0.36U
12.5-15	B14DK9	D	4/25/02	0.35U	0.35U	0.35U	0.35U	0.88U	0.35U	0.35U	0.88U	0.88U	0.35U	0.35U
12.5-15	B14DL0	S	4/25/02	0.092U	0.073U	0.080U	0.066U	0.092U	0.049U	0.086U	0.11U	0.029U	0.10U	0.079U
15-17.5	B14DK8	N	4/25/02	0.35U	0.35U	0.35U	0.35U	0.86U	0.35U	0.35U	0.86U	0.86U	0.35U	0.35U
22.5-25	B14DL1	N	5/1/02	0.33U	0.33U	0.33U	0.33U	0.83U	0.33U	0.33U	0.83U	0.83U	0.33U	0.33U
50-52.5	B14DL2	N	5/3/02	0.33U	0.33U	0.33U	0.33U	0.83U	0.33U	0.33U	0.83U	0.83U	0.33U	0.33U
99.5-102	B14DL3	N	5/7/02	0.37U	0.37U	0.37U	0.37U	0.92U	0.37U	0.37U	0.92U	0.92U	0.37U	0.37U
112-114.7	B14DL4	N	5/8/02	0.36U	0.36U	0.36U	0.36U	0.90U	0.36U	0.36U	0.90U	0.90U	0.36U	0.36U
152-154.5	B14DL5	N	5/10/02	0.35U	0.35U	0.35U	0.35U	0.87U	0.35U	0.35U	0.87U	0.87U	0.35U	0.35U
199.8-202	B14DL6	N	5/15/02	0.34U	0.34U	0.34U	0.34U	0.86U	0.34U	0.34U	0.86U	0.86U	0.34U	0.34U
220.7-223	B14KC7	N	5/17/02	0.37U	0.37U	0.37U	0.37U	0.92U	0.37U	0.37U	0.92U	0.92U	0.37U	0.37U

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Table A-5c. 216-Z-11 Ditch Area Semivolatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	4-Chloro-aniline (mg/kg)	4-Chloro-phenyl-phenyl-ether (mg/kg)	4-Methyl-phenol (cresol, p-) (mg/kg)	4-Nitro-aniline (mg/kg)	4-Nitro-phenol (mg/kg)	Acenaph-thene (mg/kg)	Acenaph-thylene (mg/kg)	Anthracene (mg/kg)	Benzo (a) anthracene (mg/kg)	Benzo(a)pyrene (mg/kg)	Benzo (b) fluor-anthene (mg/kg)
				CAS Number										
				106-47-8	7005-72-3	106-44-5	100-01-6	100-02-7	83-32-9	208-96-8	120-12-7	56-55-3	50-32-8	205-99-2
2.5-5	B14DJ8	N	4/23/02	0.33U	0.33U	0.33U	0.83U	0.83U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
10-12.5	B14DK4	N	4/24/02	0.38U	0.38U	0.38U	0.95U	0.95U	0.38U	0.38U	0.38U	0.38U	0.38U	0.38U
12.5-15	B14DK5	N	4/25/02	0.36U	0.36U	0.36U	0.89U	0.89U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U
12.5-15	B14DK9	D	4/25/02	0.35U	0.35U	0.35U	0.88U	0.88U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U
12.5-15	B14DL0	S	4/25/02	0.069U	0.11U	0.054U	0.096U	0.074U	0.097U	0.091U	0.092U	0.095U	0.099U	0.10U
15-17.5	B14DK8	N	4/25/02	0.35U	0.35U	0.35U	0.86U	0.86U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U
22.5-25	B14DL1	N	5/1/02	0.33U	0.33U	0.33U	0.83U	0.83U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
50-52.5	B14DL2	N	5/3/02	0.33U	0.33U	0.33U	0.83U	0.83U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
99.5-102	B14DL3	N	5/7/02	0.37U	0.37U	0.37U	0.92U	0.92U	0.37U	0.37U	0.37U	0.37U	0.37U	0.37U
112-114.7	B14DL4	N	5/8/02	0.36U	0.36U	0.36U	0.90U	0.90U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U
152-154.5	B14DL5	N	5/10/02	0.35U	0.35U	0.35U	0.87U	0.87U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U
199.8-202	B14DL6	N	5/15/02	0.34U	0.34U	0.34U	0.86U	0.86U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U
220.7-223	B14KC7	N	5/17/02	0.37U	0.37U	0.37U	0.92U	0.92U	0.37U	0.37U	0.37U	0.37U	0.37U	0.37U

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Table A-5d. 216-Z-11 Ditch Area Semivolatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Benzo (ghi) perylene (mg/kg)	Benzo (k) fluor-anthene (mg/kg)	Bis (2-Chloro-ethoxy) methane (mg/kg)	Bis (2-Chloro-ethyl) ether (mg/kg)	Bis (2-Chloro-isopropyl) ether (mg/kg)	Bis (2-ethylhexyl) phthalate (mg/kg)	Butyl-benzyl-phthalate (mg/kg)	Carbazole (mg/kg)	Chrysene (mg/kg)	Di-n-butyl-phthalate (mg/kg)	Di-n-octyl-phthalate (mg/kg)
				CAS Number										
				191-24-2	207-08-9	111-91-1	111-44-4	108-60-1	117-81-7	85-68-7	86-74-8	218-01-9	84-74-2	117-84-0
2.5-5	B14DJ8	N	4/23/02	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
10-12.5	B14DK4	N	4/24/02	0.38U	0.38U	0.38U	0.38U	0.38U	0.042J	0.38U	0.38U	0.38U	0.38U	0.38U
12.5-15	B14DK5	N	4/25/02	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U
12.5-15	B14DK9	D	4/25/02	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U
12.5-15	B14DL0	S	4/25/02	0.14U	0.13U	0.077U	0.055U	0.069U	0.076U	0.086U	0.10U	0.11U	0.095U	0.074U
15-17.5	B14DK8	N	4/25/02	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U
22.5-25	B14DL1	N	5/1/02	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
50-52.5	B14DL2	N	5/3/02	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
99.5-102	B14DL3	N	5/7/02	0.37U	0.37U	0.37U	0.37U	0.37U	0.046JB	0.37U	0.37U	0.37U	0.37U	0.37U
112-114.7	B14DL4	N	5/8/02	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U
152-154.5	B14DL5	N	5/10/02	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U
199.8-202	B14DL6	N	5/15/02	0.34U	0.34U	0.34U	0.34U	0.34U	0.057JB	0.34U	0.34U	0.34U	0.34U	0.34U
220.7-223	B14KC7	N	5/17/02	0.37U	0.37U	0.37U	0.37U	0.37U	0.059JB	0.37U	0.37U	0.37U	0.37U	0.37U

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Table A-5e. 216-Z-11 Ditch Area Semivolatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Dibenz (a,h) anthracene (mg/kg)	Dibenzo-furan (mg/kg)	Diethyl-phthalate (mg/kg)	Dimethyl-phthalate (mg/kg)	Fluor-anthene (mg/kg)	Fluorene (mg/kg)	Hexachloro-benzene (mg/kg)	Hexachloro-butadiene (mg/kg)	Hexachloro-cyclo-pentadiene (mg/kg)	Hexachloro-ethane (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)
				53-70-3	**132-64-9**	**84-66-2**	**131-11-3**	**206-44-0**	**86-73-7**	**118-74-1**	**87-68-3**	**77-47-4**	**67-72-1**	**193-39-5**
2.5-5	B14DJ8	N	4/23/02	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
10-12.5	B14DK4	N	4/24/02	0.38U	0.38U	0.38U	0.38U	0.38U	0.38U	0.38U	0.38U	0.38U	0.38U	0.38U
12.5-15	B14DK5	N	4/25/02	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U
12.5-15	B14DK9	D	4/25/02	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U
12.5-15	B14DL0	S	4/25/02	0.11U	0.11U	0.10U	0.10U	0.094U	0.094U	0.11U	0.067U	0.024U	0.031U	0.085U
15-17.5	B14DK8	N	4/25/02	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U
22.5-25	B14DL1	N	5/1/02	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
50-52.5	B14DL2	N	5/3/02	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
99.5-102	B14DL3	N	5/7/02	0.37U	0.37U	0.37U	0.37U	0.37U	0.37U	0.37U	0.37U	0.37U	0.37U	0.37U
112-114.7	B14DL4	N	5/8/02	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U	0.36U
152-154.5	B14DL5	N	5/10/02	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U
199.8-202	B14DL6	N	5/15/02	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U
220.7-223	B14KC7	N	5/17/02	0.37U	0.37U	0.37U	0.37U	0.37U	0.37U	0.37U	0.37U	0.37U	0.37U	0.37U

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Table A-5f. 216-Z-11 Ditch Area Semivolatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Isophorone (mg/kg)	N-Nitro-sodi-n-dipropyl-amine (mg/kg)	N-Nitro-sodi-phenyl-amine (mg/kg)	Naphthalene (mg/kg)	Nitro-benzene (mg/kg)	Penta-chloro-phenol (mg/kg)	Phenanthrene (mg/kg)	Phenol (mg/kg)	Pyrene (mg/kg)	Tributyl phosphate (mg/kg)
				CAS Number									
				78-59-1	621-64-7	86-30-6	91-20-3	98-95-3	87-86-5	85-01-8	108-95-2	129-00-0	126-73-8
2.5-5	B14DJ8	N	4/23/02	0.33U	0.33U	0.33U	0.33U	0.33U	0.83U	0.33U	0.33U	0.33U	0.33U
10-12.5	B14DK4	N	4/24/02	0.38U	0.38U	0.38U	0.38U	0.38U	0.95U	0.38U	0.38U	0.38U	0.38U
12.5-15	B14DK5	N	4/25/02	0.36U	0.36U	0.36U	0.36U	0.36U	0.89U	0.36U	0.36U	0.36U	0.36U
12.5-15	B14DK9	D	4/25/02	0.35U	0.35U	0.35U	0.35U	0.35U	0.88U	0.35U	0.35U	0.35U	0.35U
12.5-15	B14DL0	S	4/25/02	0.081U	0.075U	0.10U	0.067U	0.062U	0.066U	0.11U	0.078U	0.12U	0.35U
15-17.5	B14DK8	N	4/25/02	0.35U	0.35U	0.35U	0.35U	0.35U	0.86U	0.35U	0.35U	0.35U	0.35U
22.5-25	B14DL1	N	5/1/02	0.33U	0.33U	0.33U	0.33U	0.33U	0.83U	0.33U	0.33U	0.33U	0.33U
50-52.5	B14DL2	N	5/3/02	0.33U	0.33U	0.33U	0.33U	0.33U	0.83U	0.33U	0.33U	0.33U	0.33U
99.5-102	B14DL3	N	5/7/02	0.37U	0.37U	0.37U	0.37U	0.37U	0.92U	0.37U	0.37U	0.37U	0.37U
112-114.7	B14DL4	N	5/8/02	0.36U	0.36U	0.36U	0.36U	0.36U	0.90U	0.36U	0.36U	0.36U	0.36U
152-154.5	B14DL5	N	5/10/02	0.35U	0.35U	0.35U	0.35U	0.35U	0.87U	0.35U	0.35U	0.35U	0.35U
199.8-202	B14DL6	N	5/15/02	0.34U	0.34U	0.34U	0.34U	0.34U	0.86U	0.34U	0.34U	0.34U	0.34U
220.7-223	B14KC7	N	5/17/02	0.37U	0.37U	0.37U	0.37U	0.37U	0.92U	0.37U	0.37U	0.37U	0.37U

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Table A-6. 216-Z-11 Ditch Area Total Petroleum Hydrocarbon Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Total petroleum hydrocarbons - diesel range (mg/kg)	Total petroleum hydrocarbons - gasoline range (mg/kg)	Total petroleum hydrocarbons (mg/kg)
				CAS Number		
				--	--	--
2.5-5	B14DJ8	N	23-Apr-02	0.012U	0.036U	--
10-12.5	B14DK4	N	24-Apr-02	--	--	27=
12.5-15	B14DK5	N	25-Apr-02	0.013U	0.030U	--
12.5-15	B14DK9	D	25-Apr-02	0.013U	0.030U	--
12.5-15	B14DL0	S	25-Apr-02	1.5U	0.054U	--
15-17.5	B14DK8	N	25-Apr-02	0.013U	0.029U	--
22.5-25	B14DL1	N	1-May-02	12U	0.033U	--
50-52.5	B14DL2	N	3-May-02	13U	0.033U	--
99.5-102	B14DL3	N	7-May-02	12U	0.036U	--
112-114.7	B14DL4	N	8-May-02	12U	0.033U	--
152-154.5	B14DL5	N	10-May-02	12U	0.033U	--
199.8-202	B14DL6	N	15-May-02	12U	0.033U	--
220.7-223	B14KC7	N	17-May-02	12U	0.033U	--

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\- Not analyzed

Table A-7a. 216-Z-11 Ditch Area Volatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	1,1,1,2-Tetrachloro-ethane (mg/kg)	1,1,1-Trichloro-ethane (mg/kg)	1,1,2,2-Tetrachloro-ethane (mg/kg)	1,1,2-Trichloro-1,2,2-trifluoro-ethane (mg/kg)	1,1,2-Trichloro-ethane (mg/kg)	1,1-Dichloro-ethane (mg/kg)	1,1-Dichloro-ethene (mg/kg)	1,1-Dichloro-propene (mg/kg)	2,4-Dimethyl-phenol (mg/kg)	2,4-Dinitro-phenol (mg/kg)
				CAS Number									
				630-20-6	71-55-6	79-34-5	76-13-1	79-00-5	75-34-3	75-35-4	563-58-6	96-18-4	95-63-6
2.5-5	B14DJ8	N	4/23/02	--	0.0060U	0.0060U	--	0.0060U	0.0060U	0.0060U	--	--	0.0060U
10-12.5	B14DK4	N	4/24/02	--	0.0060U	0.0060U	--	0.0060U	0.0060U	0.0060U	--	--	0.0060U
12.5-15	B14DK5	N	4/25/02	--	0.0060U	0.0060U	--	0.0060U	0.0060U	0.0060U	--	--	0.0060U
12.5-15	B14DK9	D	4/25/02	--	0.0060U	0.0060U	--	0.0060U	0.0060U	0.0060U	--	--	0.0060U
12.5-15	B14DL0	S	4/25/02	--	3.00E-04U	4.50E-04U	--	6.80E-04U	2.90E-04U	3.30E-04U	--	--	4.20E-04U
15-17.5	B14DK8	N	4/25/02	--	0.0050U	0.0050U	--	0.0050U	0.0050U	0.0050U	--	--	0.0050U
22.5-25	B14DL1	N	5/1/02	--	0.0060U	0.0060U	--	0.0060U	0.0060U	0.0060U	--	--	0.0060U
50-52.5	B14DL2	N	5/3/02	--	0.0060U	0.0060U	--	0.0060U	0.0060U	0.0060U	--	--	0.0060U
99.5-102	B14DL3	N	5/7/02	--	0.0060U	0.0060U	--	0.0060U	0.0060U	0.0060U	--	--	0.0050U
112-114.7	B14DL4	N	5/8/02	0.010U	0.0050U	0.0050U	0.010U	0.0050U	0.0050U	0.0050U	0.010U	0.010U	--
152-154.5	B14DL5	N	5/10/02	0.011U	0.0060U	0.0060U	0.011U	0.0060U	0.0060U	0.0060U	0.011U	0.011U	--
199.8-202	B14DL6	N	5/15/02	--	0.0050U	0.0050U	--	0.0050U	0.0050U	0.0050U	--	--	0.0050U
220.7-223	B14KC7	N	5/17/02	--	0.0060U	0.0060U	--	0.0060U	0.0060U	0.0060U	--	--	0.0060U

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\- Not analyzed

Table A-7b. 216-Z-11 Ditch Area Volatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	1,2-Dibromo-3-Chloro-propane (mg/kg)	1,2-Dibromo-ethane (mg/kg)	2-Chloro-naph-thalene (mg/kg)	2-Chloro-phenol (mg/kg)	2-Methyl-naph-thalene (mg/kg)	2-Methyl-phenol (cresol, o-) (mg/kg)	2,2-Dichloro-propane (mg/kg)	2,4,5-T (mg/kg)	2,4,5-TP (mg/kg)	2-Butanone (mg/kg)
				CAS Number									
				96-12-8	106-93-4	107-06-2	540-59-0	78-87-5	142-28-9	594-20-7	93-76-5	93-72-1	78-93-3
2.5-5	B14DJ8	N	4/23/02	--	--	0.0060U	0.0060U	0.0060U	--	--	0.018U	0.018U	0.011U
10-12.5	B14DK4	N	4/24/02	--	--	0.0060U	0.0060U	0.0060U	--	--	--	--	0.012U
12.5-15	B14DK5	N	4/25/02	--	--	0.0060U	0.0060U	0.0060U	--	--	--	--	0.011U
12.5-15	B14DK9	D	4/25/02	--	--	0.0060U	0.0060U	0.0060U	--	--	--	--	0.012U
12.5-15	B14DL0	S	4/25/02	--	--	2.80E-04U	5.90E-04U	2.40E-04U	--	--	--	--	0.0018U
15-17.5	B14DK8	N	4/25/02	--	--	0.0050U	0.0050U	0.0050U	--	--	--	--	0.010U
22.5-25	B14DL1	N	5/1/02	--	--	0.0060U	0.0060U	0.0060U	--	--	--	--	0.011U
50-52.5	B14DL2	N	5/3/02	--	--	0.0060U	0.0060U	0.0060U	--	--	--	--	0.011U
99.5-102	B14DL3	N	5/7/02	--	--	0.0060U	0.0060U	0.0060U	--	--	--	--	0.011U
112-114.7	B14DL4	N	5/8/02	0.020U	0.020U	0.0050U	--	0.0050U	0.010U	0.010U	--	--	0.050U
152-154.5	B14DL5	N	5/10/02	0.022U	0.022U	0.0060U	--	0.0060U	0.011U	0.011U	--	--	0.055U
199.8-202	B14DL6	N	5/15/02	--	--	0.0050U	0.0050U	0.0050U	--	--	--	--	0.010U
220.7-223	B14KC7	N	5/17/02	--	--	0.0060U	0.0060U	0.0060U	--	--	--	--	0.012U

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\- Not analyzed

Table A-7c. 216-Z-11 Ditch Area Volatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	2-Chloro-ethyl vinyl ether (mg/kg)	2-Hexanone (mg/kg)	4-Methyl-2-Pentanone (mg/kg)	Acetic acid, methyl ester (mg/kg)	Acetone (mg/kg)	Aceton-itrile (mg/kg)	Acrolein (mg/kg)	Acrylon-itrile (mg/kg)	Allyl chloride (mg/kg)	Benzene (mg/kg)
				CAS Number									
				110-75-8	591-78-6	108-10-1	79-20-9	67-64-1	75-05-8	107-02-8	107-13-1	107-05-1	71-43-2
2.5-5	B14DJ8	N	4/23/02	--	0.011U	0.011U	--	0.0060J	--	--	--	--	0.0060U
10-12.5	B14DK4	N	4/24/02	--	0.012U	0.012U	--	0.014B	--	--	--	--	0.0060U
12.5-15	B14DK5	N	4/25/02	--	0.011U	0.011U	--	0.0040J	--	--	--	--	0.0060U
12.5-15	B14DK9	D	4/25/02	--	0.012U	0.012U	--	0.0060J	--	--	--	--	0.0060U
12.5-15	B14DL0	S	4/25/02	--	0.0019U	7.50E-04U	--	0.0087JB	--	--	--	--	1.50E-04U
15-17.5	B14DK8	N	4/25/02	--	0.010U	0.010U	--	0.0070J	--	--	--	--	0.0050U
22.5-25	B14DL1	N	5/1/02	--	0.011U	0.011U	--	0.0050JB	--	--	--	--	0.0060U
50-52.5	B14DL2	N	5/3/02	--	0.011U	0.011U	--	0.0070JB	--	--	--	--	0.0060U
99.5-102	B14DL3	N	5/7/02	--	0.011U	0.011U	--	0.0040BJ	--	--	--	--	0.0060U
112-114.7	B14DL4	N	5/8/02	0.010U	0.010U	0.010U	0.010U	0.0080JB	0.020U	0.010U	0.010U	0.020U	0.0050U
152-154.5	B14DL5	N	5/10/02	0.011U	0.011U	0.011U	0.011U	0.010JB	0.022U	0.011U	0.011U	0.022U	0.0060U
199.8-202	B14DL6	N	5/15/02	--	0.010U	0.010U	--	0.010JB	--	--	--	--	0.0050U
220.7-223	B14KC7	N	5/17/02	--	0.012U	0.012U	--	0.031B	--	--	--	--	0.0060U

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Table A-7d. 216-Z-11 Ditch Area Volatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bromo-chloro-methane (mg/kg)	Bromo-dichloro-methane (mg/kg)	Bromo-form (mg/kg)	Bromo-methane (mg/kg)	Carbon disulfide (mg/kg)	Carbon tetra-chloride (mg/kg)	chloro-benzene (mg/kg)	chloro-ethane (mg/kg)	chloro-form (mg/kg)	chloro-prene (mg/kg)
				74-97-5	75-27-4	75-25-2	74-83-9	75-15-0	56-23-5	108-90-7	75-00-3	67-66-3	126-99-8
2.5-5	B14DJ8	N	4/23/02	--	0.0060U	0.0060U	0.011U	0.0060U	0.0030U	0.0060U	0.011U	0.0060U	--
10-12.5	B14DK4	N	4/24/02	--	0.0060U	0.0060U	0.012U	0.0060U	0.0040U	0.0060U	0.012U	0.0060U	--
12.5-15	B14DK5	N	4/25/02	--	0.0060U	0.0060U	0.011U	0.0060U	0.0030U	0.0060U	0.011U	0.0060U	--
12.5-15	B14DK9	D	4/25/02	--	0.0060U	0.0060U	0.012U	0.0060U	0.0040U	0.0060U	0.012U	0.0060U	--
12.5-15	B14DL0	S	4/25/02	--	1.50E-04U	2.70E-04U	0.0011U	3.40E-04U	2.60E-04U	2.90E-04U	5.80E-04U	2.50E-04U	--
15-17.5	B14DK8	N	4/25/02	--	0.0050U	0.0050U	0.010U	0.0050U	0.0030U	0.0050U	0.010U	0.0050U	--
22.5-25	B14DL1	N	5/1/02	--	0.0060U	0.0060U	0.011U	0.0060U	0.0030U	0.0060U	0.011U	0.0060U	--
50-52.5	B14DL2	N	5/3/02	--	0.0060U	0.0060U	0.011U	0.0060U	0.0030U	0.0060U	0.011U	0.0060U	--
99.5-102	B14DL3	N	5/7/02	--	0.0060U	0.0060U	0.011U	0.0060U	0.0030U	0.0060U	0.011U	0.0060U	--
112-114.7	B14DL4	N	5/8/02	0.0050U	0.0050U	0.0050U	0.010U	0.0050U	0.0050U	0.0050U	0.010U	0.0050U	0.010U
152-154.5	B14DL5	N	5/10/02	0.0060U	0.0060U	0.0060U	0.011U	0.0060U	0.0060U	0.0060U	0.011U	0.0060U	0.011U
199.8-202	B14DL6	N	5/15/02	--	0.0050U	0.0050U	0.010U	0.0050U	0.0030U	0.0050U	0.010U	0.0050U	--
220.7-223	B14KC7	N	5/17/02	--	0.0060U	0.0060U	0.012U	0.0060U	0.0040U	0.0060U	0.012U	0.0060U	--

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\- Not analyzed

Table A-7e. 216-Z-11 Ditch Area Volatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	cis-1,2-Dichloro-ethylene (mg/kg)	cis-1,3-Dichloro-propene (mg/kg)	Cyclo-hexane (mg/kg)	Cyclo-hexanone (mg/kg)	Dibromo-chloro-methane (mg/kg)	Dibromo-methane (mg/kg)	dichloro-difluoro-methane (mg/kg)	Ethyl acetate (mg/kg)	Ethyl cyanide (mg/kg)	Ethyl-benzene (mg/kg)
				CAS Number									
				156-59-2	10061-01-5	110-82-7	108-94-1	124-48-1	74-95-3	75-71-8	141-78-6	107-12-0	100-41-4
2.5-5	B14DJ8	N	4/23/02	--	0.0060U	--	0.050U	0.0060U	--	--	--	--	0.0060U
10-12.5	B14DK4	N	4/24/02	--	0.0060U	--	0.060U	0.0060U	--	--	--	--	0.0060U
12.5-15	B14DK5	N	4/25/02	--	0.0060U	--	0.055U	0.0060U	--	--	--	--	0.0060U
12.5-15	B14DK9	D	4/25/02	--	0.0060U	--	0.060U	0.0060U	--	--	--	--	0.0060U
12.5-15	B14DL0	S	4/25/02	--	4.70E-04U	--	0.054U	3.70E-04U	--	--	--	--	8.00E-04U
15-17.5	B14DK8	N	4/25/02	--	0.0050U	--	0.048U	0.0050U	--	--	--	--	0.0050U
22.5-25	B14DL1	N	5/1/02	--	0.0060U	--	0.055U	0.0060U	--	--	--	--	0.0060U
50-52.5	B14DL2	N	5/3/02	--	0.0060U	--	0.055U	0.0060U	--	--	--	--	0.0060U
99.5-102	B14DL3	N	5/7/02	--	0.0060U	--	0.055U	0.0060U	--	--	--	--	0.0060U
112-114.7	B14DL4	N	5/8/02	0.0050U	0.0050U	0.010U	--	0.0050U	0.010U	0.010U	0.010U	0.050U	0.0050U
152-154.5	B14DL5	N	5/10/02	0.0060U	0.0060U	0.011U	--	0.0060U	0.011U	0.011U	0.011U	0.055U	0.0060U
199.8-202	B14DL6	N	5/15/02	--	0.0050U	--	0.050U	0.0050U	--	--	--	--	0.0050U
220.7-223	B14KC7	N	5/17/02	--	0.0060U	--	0.060U	0.0060U	--	--	--	--	0.0060U

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\- Not analyzed

Table A-7f. 216-Z-11 Ditch Area Volatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Iodo-methane (mg/kg)	Isobutyl alcohol (mg/kg)	Isopropyl-benzene (mg/kg)	m-Xylene (mg/kg)	Metha-crylonitrile (mg/kg)	Methanol (mg/kg)	Methyl chloride (mg/kg)	Methyl metha-crylate (mg/kg)	Methyl tert-butyl ether (mg/kg)	Methylene chloride (mg/kg)
				CAS Number									
				74-88-4	78-83-1	98-82-8	108-38-3	126-98-7	67-56-1	74-87-3	80-62-6	1634-04-4	75-09-2
2.5-5	B14DJ8	N	4/23/02	--	--	--	--	--	28U	0.011U	--	--	0.0080=
10-12.5	B14DK4	N	4/24/02	--	--	--	--	--	30U	0.012U	--	--	0.0060U
12.5-15	B14DK5	N	4/25/02	--	--	--	--	--	--	0.011U	--	--	0.0050JB
12.5-15	B14DK9	D	4/25/02	--	--	--	--	--	--	0.012U	--	--	0.0060U
12.5-15	B14DL0	S	4/25/02	--	--	--	--	--	--	0.0010U	--	--	0.0010JB
15-17.5	B14DK8	N	4/25/02	--	--	--	--	--	--	0.010U	--	--	0.0030JB
22.5-25	B14DL1	N	5/1/02	--	--	--	--	--	--	0.011U	--	--	0.0070=
50-52.5	B14DL2	N	5/3/02	--	--	--	--	--	--	0.011U	--	--	0.0090=
99.5-102	B14DL3	N	5/7/02	--	--	--	--	--	--	0.011U	--	--	0.012=
112-114.7	B14DL4	N	5/8/02	0.010U	0.10U	0.010U	0.0050U	0.020U	--	0.010U	0.010U	0.010U	0.0020J
152-154.5	B14DL5	N	5/10/02	0.011U	0.11U	0.011U	0.0060U	0.022U	--	0.011U	0.011U	0.011U	0.0020J
199.8-202	B14DL6	N	5/15/02	--	--	--	--	--	--	0.010U	--	--	0.0090=
220.7-223	B14KC7	N	5/17/02	--	--	--	--	--	--	0.012U	--	--	0.011=

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Table A-7g. 216-Z-11 Ditch Area Volatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	o-Xylene (mg/kg)	Styrene (mg/kg)	Tetrachloro-ethene (mg/kg)	Tetra-hydrofuran (mg/kg)	Toluene (mg/kg)	trans-1,2-Dichloro-ethylene (mg/kg)	trans-1,3-Dichloro-propene (mg/kg)	trans-1,4-Dichloro-2-butene (mg/kg)	Trichloro-ethene (mg/kg)	Trichloro-mono-fluoromethane (mg/kg)
				CAS Number									
				95-47-6	100-42-5	127-18-4	109-99-9	108-88-3	156-60-5	10061-02-6	110-57-6	79-01-6	75-69-4
2.5-5	B14DJ8	N	4/23/02	--	0.0060U	0.0060U	--	0.0060U	--	0.0060U	--	0.0060U	0.0060U
10-12.5	B14DK4	N	4/24/02	--	0.0060U	0.0060U	--	0.0060U	--	0.0060U	--	0.0060U	0.0060U
12.5-15	B14DK5	N	4/25/02	--	0.0060U	0.0060U	--	0.0060U	--	0.0060U	--	0.0060U	0.0060U
12.5-15	B14DK9	D	4/25/02	--	0.0060U	0.0060U	--	0.0060U	--	0.0060U	--	0.0060U	0.0060U
12.5-15	B14DL0	S	4/25/02	--	3.90E-04U	0.0011U	0.0031U	2.60E-04U	--	8.60E-04U	--	2.40E-04U	--
15-17.5	B14DK8	N	4/25/02	--	0.0050U	0.0050U	--	0.0050U	--	0.0050U	--	0.0050U	0.0050U
22.5-25	B14DL1	N	5/1/02	--	0.0060U	0.0060U	--	0.0060U	--	0.0060U	--	0.0060U	0.0060U
50-52.5	B14DL2	N	5/3/02	--	0.0060U	0.0060U	--	0.0060U	--	0.0060U	--	0.0060U	0.0060U
99.5-102	B14DL3	N	5/7/02	--	0.0060U	0.0060U	--	0.0060U	--	0.0060U	--	0.0060U	0.0060U
112-114.7	B14DL4	N	5/8/02	0.0050U	0.0050U	0.0050U	--	0.0050U	0.0050U	0.0050U	0.10U	0.0050U	0.0050U
152-154.5	B14DL5	N	5/10/02	0.0060U	0.0060U	0.0060U	--	0.0060U	0.0060U	0.0060U	0.11U	0.0060U	0.0060U
199.8-202	B14DL6	N	5/15/02	--	0.0050U	0.0050U	--	0.0050U	--	0.0050U	--	0.0050U	0.0050U
220.7-223	B14KC7	N	5/17/02	--	0.0060U	0.0060U	--	0.0060U	--	0.0060U	--	0.0060U	0.0060U

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Table A-7h. 216-Z-11 Ditch Area Volatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Vinyl acetate (mg/kg)	Vinyl chloride (mg/kg)	Xylenes (total) (mg/kg)
				CAS Number		
				108-05-4	75-01-4	1330-20-7
2.5-5	B14DJ8	N	4/23/02	--	0.0060U	0.0060U
10-12.5	B14DK4	N	4/24/02	--	0.0060U	0.0060U
12.5-15	B14DK5	N	4/25/02	--	0.0060U	0.0060U
12.5-15	B14DK9	D	4/25/02	--	0.0060U	0.0060U
12.5-15	B14DL0	S	4/25/02	--	8.60E-04U	0.0010U
15-17.5	B14DK8	N	4/25/02	--	0.0050U	0.0050U
22.5-25	B14DL1	N	5/1/02	--	0.0060U	0.0060U
50-52.5	B14DL2	N	5/3/02	--	0.0060U	0.0060U
99.5-102	B14DL3	N	5/7/02	--	0.0060U	0.0060U
112-114.7	B14DL4	N	5/8/02	0.010U	0.0020U	0.0050U
152-154.5	B14DL5	N	5/10/02	0.011U	0.0020U	0.0060U
199.8-202	B14DL6	N	5/15/02	--	0.0050U	0.0050U
220.7-223	B14KC7	N	5/17/02	--	0.0060U	0.0060U

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\- Not analyzed

Table A-8. 216-U-10 Pond General Chemistry Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bromide (mg/kg)	Chloride (mg/kg)	Fluoride (mg/kg)	Kerosene (mg/kg)	Nitrate (mg/kg)	Nitrite (mg/kg)	Nitrogen in Nitrite and Nitrate (mg/kg)	Phosphate (mg/kg)	Sulfate (mg/kg)	Total organic carbon (mg/kg)
				CAS Number									
				24959-67-9	16887-00-6	16984-48-8	8008-20-6	14797-55-8	--	--	14265-44-2	14808-79-8	--
Shoreline Samples													
3-3.3	B0BKN7	N	4/5/94	--	0.40U	23=	76=	--	--	145=	--	230=	--
3-3.3	B0BKN8	N	4/5/94	--	0.40U	3.6=	--	--	--	2.5U	--	19=	--
3-3.3	B0BKN9	N	3/30/94	--	1.2=	0.40U	--	--	--	7.2=	--	4.8=	1,000=
3-3.3	B0BKP4	N	3/30/94	--	7.8=	1.0U	--	--	--	10=	--	12=	2,000=
3-3.3	B0BKP5	N	3/30/94	--	9.4=	0.40U	--	--	--	10=	--	7.8=	1,200=
3-3.3	B0BKP6	N	3/31/94	--	0.40U	0.40U	--	--	--	2.5U	--	1.6=	--
3-3.3	B0BNQ0	N	3/31/94	--	0.40U	0.40=	--	--	--	3.3=	--	1.8=	--
3-3.3	B0BNQ1	N	3/31/94	--	0.40U	0.40U	--	--	--	2.5U	--	4.3=	--
3-3.3	B0BNQ2	N	3/31/94	--	0.40U	0.40U	--	--	--	2.5U	--	1.5U	--
3-3.3	B0BNQ3	N	3/31/94	--	0.40U	0.40U	--	--	--	2.5U	--	37U	--
3-3.3	B0BNQ6	N	3/31/94	--	0.40U	0.40U	--	--	--	4.4=	--	1.6=	--
3-3.3	B0BNQ7	N	3/31/94	--	0.40U	0.40U	--	--	--	2.5U	--	1.5U	--
3-3.3	B0BNQ8	N	3/31/94	--	0.90=	0.40U	--	--	--	23=	--	19=	--
Borehole 299-W23-231													
2-4	B09WI8	N	3/10/94	--	24=	1.4=	29UJ	--	--	131=	--	187=	--
4-6	B09WI9	N	3/10/94	1.0U	2.8=	0.40U	10U	0.40U	0.40U	9.0=	1.0U	27=	--
6-8	B09WJ0	N	3/11/94	1.0U	3.9=	0.40U	10U	0.40U	0.40U	3.5=	1.0U	13=	--
15-17	B09WJ3	N	3/14/94	1.0U	0.40U	0.40U	10U	0.40U	0.40U	2.5U	1.0U	3.6=	--
40-42	B09WJ4	N	3/15/94	1.0U	0.40U	0.40U	10U	0.40U	0.40U	2.5U	1.0U	1.9=	--
50-52	B09WJ5	N	3/15/94	1.0U	0.40U	0.40U	11U	0.40U	0.40U	2.5U	1.0U	1.6=	--
60-62	B09WJ7	N	3/16/94	1.0U	0.40U	0.40U	11U	0.40U	0.40U	2.5U	1.0U	1.8=	--
110-112	B09WJ9	N	3/21/94	--	0.40=	0.40U	12U	--	--	2.5U	--	2.2=	--
135-137	B09WK0	N	3/22/94	--	9.7=	1.2U	30U	--	--	4.7=	--	16=	--

Table A-8. 216-U-10 Pond General Chemistry Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bromide (mg/kg)	Chloride (mg/kg)	Fluoride (mg/kg)	Kerosene (mg/kg)	Nitrate (mg/kg)	Nitrite (mg/kg)	Nitrogen in Nitrite and Nitrate (mg/kg)	Phosphate (mg/kg)	Sulfate (mg/kg)	Total organic carbon (mg/kg)
				CAS Number									
				24959-67-9	16887-00-6	16984-48-8	8008-20-6	14797-55-8	--	--	14265-44-2	14808-79-8	--
135-137	B09WK1	N	3/22/94	--	0.40U	0.40U	12U	--	--	2.5U	--	2.5=	--
138-140	B09WK2	D	3/22/94	--	0.40U	0.40U	12U	--	--	2.5U	--	3.3=	--
138-140	B09WK3	SS	3/22/94	--	4.0=	0.80=	6.0U	--	--	4.2=	--	9.0=	--
-	B09WK4	FB	3/23/94	--	4.1=	0.70=	10U	--	--	2.5U	--	1.7=	--
-	B09WK5	EB	3/23/94	--	2.9=	0.40U	10U	--	--	2.5U	--	1.8=	--
Test Pit 216-U-10-TP-2													
6.5-6.5	B09316	N	8/21/93	--	10=	1.7=	5.0U	--	--	4.6=	--	2,360=	--
6.5-7.5	B09313	N	8/21/93	--	6.0=	1.1=	5.0U	--	--	17=	--	23=	--
9-10	B09317	N	8/22/93	--	4.9=	0.90=	5.0U	--	--	21=	--	28=	--
9-10	B09314	SS	8/22/93	--	1.3=	2.6U	--	--	--	23J	--	20=	--
9-10	B09315	D	8/22/93	--	4.5=	0.90=	5.0U	--	--	18=	--	25=	--
15-17	B09318	N	8/22/93	--	4.6=	1.1=	5.0U	--	--	26=	--	91=	--
25-26	B09319	N	8/22/93	--	4.4=	1.0=	5.0U	--	--	18=	--	24=	--
-	B09320	FB	8/22/93	--	6.0=	0.80=	5.0U	--	--	2.5U	--	7.0=	--
-	B09338	EB	8/21/93	--	6.1=	0.70=	5.0U	--	--	2.5U	--	8.0=	--

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- Not analyzed
= Detected

Table A-9a. 216-U-10 Pond Inorganics (Metals) Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Aluminum (mg/kg)	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Calcium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)
				CAS Number								
				7429-90-5	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-70-2	7440-47-3	7440-48-4
Shoreline Samples												
3-3.3	B0BKN7	N	4/5/94	31,500=	17UJN	10S	306=	0.78B	4.6=	49,200=	39=	13B
3-3.3	B0BKN8	N	4/5/94	5,300=	10UJN	1.6B	101=	0.41B	1.0U	8,950=	8.4=	8.7B
3-3.3	B0BKN9	N	3/30/94	6,500=	12=	2.3JN	80=	0.55B	0.99U	5,720=	9.0=	13=
3-3.3	B0BKP4	N	3/30/94	5,010=	5.0UJN	3.1S	73=	0.45U	0.54B	4,160=	5.4J	7.9B
3-3.3	B0BKP5	N	3/30/94	8,440=	9.6U	2.6JN	86=	0.71B	0.96U	6,340=	11=	14=
3-3.3	B0BKP6	N	3/31/94	6,070=	9.6UJN	2.5=	88=	0.49B	0.96U	9,860=	7.9=	13=
3-3.3	B0BNQ0	N	3/31/94	6,780=	9.9UJN	2.1=	79=	0.52B	0.99U	3,560=	8.5=	13=
3-3.3	B0BNQ1	N	3/31/94	4,390=	9.4UJN	2.5=	69=	0.43B	0.94U	6,350=	5.4=	11=
3-3.3	B0BNQ2	N	3/31/94	6,960=	10UJN	3.0=	74=	0.63B	1.0U	9,460=	8.7=	14=
3-3.3	B0BNQ3	N	3/31/94	5,760=	9.9UJ	2.1=	86=	0.60B	0.99U	8,430=	8.7=	14=
3-3.3	B0BNQ6	N	3/31/94	7,230=	10UJN	2.1=	79=	0.53B	1.0U	4,310=	9.6=	12=
3-3.3	B0BNQ7	N	3/31/94	6,350=	10UJN	3.1=	85=	0.51B	1.0U	9,010=	9.4=	14=
3-3.3	B0BNQ8	N	3/31/94	6,380=	9.9UJ	2.5=	89=	0.55B	0.99U	5,930=	9.3=	12=
Borehole 299-W23-231												
2-4	B09WI8	N	3/10/94	7,220=	7.1UJN	1.8BS	70=	0.46U	1.3U	7,670=	11JN	8.9B
4-6	B09WI9	N	3/10/94	5,170=	10U	4.8JSN	69=	0.48B	1.0U	9,130=	8.1=	15=
6-8	B09WJ0	N	3/11/94	4,350=	10U	1.4BJWN	76=	0.40B	1.0U	3,710=	5.1=	11=
15-17	B09WJ3	N	3/14/94	4,010=	10U	0.68BJN	59=	0.50B	1.0U	5,890=	7.2=	11=
40-42	B09WJ4	N	3/15/94	7,280=	11U	1.8BJN	112=	0.64B	1.1U	9,220=	7.4=	16=
50-52	B09WJ5	N	3/15/94	7,830=	10U	1.5BJN	102=	0.61B	1.0U	9,130=	9.4=	17=
60-62	B09WJ7	N	3/16/94	8,750=	11U	2.7JN	104=	0.59B	1.1U	10,500=	13=	11=
110-112	B09WJ9	N	3/21/94	12,900=	12UN	3.7=	146=	1.0B	1.2U	14,100=	16=	21=
135-137	B09WK0	N	3/22/94	7,600=	6.0UJN	3.2=	108=	0.54U	0.46B	26,000=	14=	8.1B
135-137	B09WK1	D	3/22/94	8,290=	11UJN	3.5S	93=	0.51B	1.1U	20,900=	17=	11B
138-140	B09WK2	N	3/22/94	7,920=	13BN	4.3S	107=	0.62B	1.2U	70,900=	14=	13=
138-140	B09WK3	SS	3/22/94	6,070=	3.0BJN	2.7=	66=	0.27B	0.22U	41,100=	8.2=	5.5B

Table A-9a. 216-U-10 Pond Inorganics (Metals) Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Aluminum (mg/kg)	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Calcium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)
				CAS Number								
				7429-90-5	7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-70-2	7440-47-3	7440-48-4
-	B09WK4	FB	3/23/94	99U	9.5UJN	0.40U	0.39B	0.19U	0.95U	44U	1.9U	1.9U
-	B09WK5	EB	3/23/94	75U	9.6UJN	0.37U	0.38U	0.19U	0.96U	28U	1.9U	1.9U
Test Pit 216-U-10 TP-2												
6.5-6.5	B09316	N	8/21/93	14,300=	6.8U	9.4S	331=	0.59B	9.1=	57,000=	83=	10B
6.5-7.5	B09313	N	8/21/93	7,070=	3.6U	2.6=	82=	0.35B	0.30U	5,850=	8.2=	10B
9-10	B09317	N	8/22/93	6,470=	4.1U	3.8S	91=	0.28B	0.34U	10,600=	9.6=	13=
9-10	B09314	SS	8/22/93	3,900=	14J	1.9B	77=	0.27B	1.0U	8,450=	5.3=	9.8B
9-10	B09315	D	8/22/93	5,510=	3.7U	3.6=	79=	0.31B	0.31U	9,280=	8.2=	12=
15-17	B09318	N	8/22/93	6,230=	3.5U	3.7S	89=	0.28B	0.30U	9,530=	6.9=	12=
25-26	B09319	N	8/22/93	6,110=	3.5U	3.0J	77=	0.28B	0.29U	6,970=	7.6=	12=
-	B09320	FB	8/22/93	67=	3.5U	0.54U	0.20U	0.080U	0.29U	15UJ	0.35U	0.29U
-	B09338	EB	8/21/93	60=	3.5U	0.53U	0.25U	0.080U	0.29U	7.0UJ	0.71U	0.29U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Not analyzed
= = Quality Assurance/Quality Control
- = Detected

Table A-9b. 216-U-10 Pond Inorganics (Metals) Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Copper (mg/kg)	Cyanide (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Magnesium (mg/kg)	Manganese (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Potassium (mg/kg)
				CAS Number								
				7440-50-8	57-12-5	7439-89-6	743-99-2	7439-95-4	7439-96-5	743-99-7	744-00-2	7440-09-7
Shoreline Samples												
3-3.3	B0BKN7	N	4/5/94	71=	1.8U	23,100=	69=	8,050=	1,580=	0.55=	19=	1,710B
3-3.3	B0BKN8	N	4/5/94	25=	5.2UJ	15,800=	22=	3,980=	298=	0.090U	26=	1,070=
3-3.3	B0BKN9	N	3/30/94	12=	1.0U	22,800=	5.4S	4,330=	340=	0.10UN	10=	1,370=
3-3.3	B0BKP4	N	3/30/94	12=	0.15BJ	17,000=	4.9JSN	3,780=	315JN	0.050UJ	9.9=	1,590=
3-3.3	B0BKP5	N	3/30/94	13=	1.0U	25,100=	5.6S	5,150=	377=	0.090UN	12=	2,110=
3-3.3	B0BKP6	N	3/31/94	12=	1.0U	21,300=	4.8=	4,470=	357=	0.10U	10=	1,150=
3-3.3	B0BNQ0	N	3/31/94	10=	1.0U	21,000=	5.1=	4,180=	337=	0.10U	9.1=	1,540=
3-3.3	B0BNQ1	N	3/31/94	12=	1.0U	18,400=	5.0S	3,880=	331=	0.10U	8.1=	997=
3-3.3	B0BNQ2	N	3/31/94	14=	1.0U	24,600=	4.4=	5,140=	341=	0.10U	12=	1,240=
3-3.3	B0BNQ3	N	3/31/94	18=	1.0U	24,200=	3.7=	4,290=	337=	0.10U	8.4=	1,180=
3-3.3	B0BNQ6	N	3/31/94	11=	1.0U	22,400=	6.0S	4,450=	342=	0.10U	11=	1,580=
3-3.3	B0BNQ7	N	3/31/94	15=	1.0U	25,100=	5.1=	5,380=	348=	0.10U	12=	1,180=
3-3.3	B0BNQ8	N	3/31/94	11=	1.0U	19,000=	4.5=	4,350=	345=	0.10U	11=	1,470=
Borehole 299-W23-231												
2-4	B09WI8	N	3/10/94	21=	0.24U	20,000J	8.1=	4,450=	229JN	0.080B	18=	1,490=
4-6	B09WI9	N	3/10/94	13=	1.0U	22,800=	4.8=	4,750=	360=	0.10U	8.2B	938B
6-8	B09WJ0	N	3/11/94	12=	1.0U	18,400=	3.0=	2,790=	281=	0.090U	5.9B	442B
15-17	B09WJ3	N	3/14/94	12=	1.0U	22,300=	2.0=	3,310=	235=	0.090U	6.6B	552B
40-42	B09WJ4	N	3/15/94	13=	1.1U	28,900=	3.1=	4,600=	458=	0.10U	7.9B	1,110=
50-52	B09WJ5	N	3/15/94	13=	1.1U	28,700=	3.2=	5,220=	453=	0.11U	10=	1,350=
60-62	B09WJ7	N	3/16/94	13=	1.1U	21,800=	5.7S	5,670=	384=	0.11U	12=	1,830=
110-112	B09WJ9	N	3/21/94	19=	1.2U	38,000=	8.8S	7,920=	519N	0.12U	16=	2,180=
135-137	B09WK0	N	3/22/94	18=	0.17U	16,300=	5.5JN	7,310=	447JN	0.060UJ	17=	1,700=
135-137	B09WK1	D	3/22/94	15=	3.0=	18,100=	5.7=	7,480=	342JN	0.11U	16=	1,660=
138-140	B09WK2	N	3/22/94	14=	1.2U	19,900=	4.5=	6,950=	439N	0.11U	15=	1,390=
138-140	B09WK3	SS	3/22/94	14=	0.60U	10,600=	2.8=	3,850=	317=	0.060U	8.3=	1,030=

Table A-9b. 216-U-10 Pond Inorganics (Metals) Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Copper (mg/kg)	Cyanide (mg/kg)	Iron (mg/kg)	Lead (mg/kg)	Magnesium (mg/kg)	Manganese (mg/kg)	Mercury (mg/kg)	Nickel (mg/kg)	Potassium (mg/kg)
				CAS Number								
				7440-50-8	57-12-5	7439-89-6	743-99-2	7439-95-4	7439-96-5	743-99-7	744-00-2	7440-09-7
-	B09WK4	FB	3/23/94	1.9U	1.0U	218=	0.40U	12U	0.56BJN	0.10U	3.8U	191U
-	B09WK5	EB	3/23/94	1.9U	1.0U	171U	0.37U	5.8U	0.56BJN	0.090U	3.8U	192U
Test Pit 216-U-10 TP-2												
6.5-6.5	B09316	N	8/21/93	163=	0.98U	20,000=	107=	8,240=	304=	1.4=	131=	1,580B
6.5-7.5	B09313	N	8/21/93	13U	0.55U	19,400=	4.9=	4,660=	334=	0.050U	8.7=	1,400=
9-10	B09317	N	8/22/93	16U	0.58U	26,000=	4.3=	5,720=	408=	0.050U	11=	882B
9-10	B09314	SS	8/22/93	11=	1.0U	20,700=	3.1=	4,040=	330=	0.050U	6.4B	466U
9-10	B09315	D	8/22/93	16U	0.50U	22,700=	3.8=	5,360=	378=	0.050U	11=	731B
15-17	B09318	N	8/22/93	14U	0.52U	22,800=	3.7=	5,020=	370=	0.050U	8.3=	877B
25-26	B09319	N	8/22/93	15U	0.52U	23,800=	3.7=	4,800=	335=	0.050U	9.8=	799B
-	B09320	FB	8/22/93	0.46U	0.49U	206=	0.49B	6.8B	0.71U	0.050U	0.73U	17U
-	B09338	EB	8/21/93	0.96U	0.50U	139=	0.32B	8.0B	0.55U	0.050U	0.73U	17U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
\- Not analyzed
= Detected

Table A-9c. 216-U-10 Pond Inorganics (Metals) Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Selenium (mg/kg)	Silver (mg/kg)	Sodium (mg/kg)	Thallium (mg/kg)	Titanium (mg/kg)	Uranium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
				CAS Number							
				778-24-9	744-02-2	7440-23-5	744-02-8	7440-32-6	UTOT	744-06-2	744-06-6
Shoreline Samples											
3-3.3	B0BKN7	N	4/5/94	1.4B	1.8B	476B	0.69UJN	1,470=	32=	70=	393=
3-3.3	B0BKN8	N	4/5/94	0.40UJ	1.1B	138U	0.61BJWN	810=	2.0=	28=	81=
3-3.3	B0BKN9	N	3/30/94	0.39U	1.7B	165B	0.39UJW	1,610=	2.9=	57=	35=
3-3.3	B0BKP4	N	3/30/94	0.18UJN	0.75UJ	121B	0.35BJN	1,060=	3.2J	24=	37=
3-3.3	B0BKP5	N	3/30/94	0.39U	1.2B	202B	0.39UJW	1,760=	3.2=	59=	38=
3-3.3	B0BKP6	N	3/31/94	0.40U	0.98B	124U	0.40UJWN	1,520=	1.4=	49=	32=
3-3.3	B0BNQ0	N	3/31/94	0.40U	1.9B	132B	0.40UJWN	1,510=	2.3=	48=	36=
3-3.3	B0BNQ1	N	3/31/94	0.38U	2.1=	124U	0.38UJWN	1,160=	1.5=	34=	28=
3-3.3	B0BNQ2	N	3/31/94	0.40U	1.2B	196B	0.40UJWN	1,900=	5.5=	57=	39=
3-3.3	B0BNQ3	N	3/31/94	0.39U	1.2B	285B	0.39UJW	2,140=	11=	67=	40=
3-3.3	B0BNQ6	N	3/31/94	0.41U	2.6=	146B	0.41UJWN	1,640=	2.7=	52=	35=
3-3.3	B0BNQ7	N	3/31/94	0.40U	1.5B	155B	0.40UJWN	1,800=	5.2=	56=	38=
3-3.3	B0BNQ8	N	3/31/94	0.38U	1.1B	128B	0.38UJW	1,380=	4.3=	44=	33=
Borehole 299-W23-231											
2-4	B09WI8	N	3/10/94	0.32UJN	0.62U	282B	0.32BJ	1,410JN	19J	36=	64J
4-6	B09WI9	N	3/10/94	0.42U	1.0U	155B	0.43B	1,790=	6.8=	56=	37=
6-8	B09WJ0	N	3/11/94	0.41U	1.0U	142B	0.41U	1,380=	3.7=	40=	27=
15-17	B09WJ3	N	3/14/94	0.40UJW	1.1B	171B	0.40U	1,910=	1.9=	57=	31=
40-42	B09WJ4	N	3/15/94	0.41UJW	1.1B	148B	0.41U	1,960=	2.1=	73=	34=
50-52	B09WJ5	N	3/15/94	0.42U	1.0B	135B	0.42U	1,990=	2.3=	68=	35=
60-62	B09WJ7	N	3/16/94	0.42UJW	1.1B	127B	0.42U	1,140=	2.3=	45=	39=
110-112	B09WJ9	N	3/21/94	0.47U	2.0B	269B	0.47U	2,130=	2.5=	74=	52=
135-137	B09WK0	N	3/22/94	0.22UJN	0.89UJ	173B	0.54BJN	753=	144J	25=	38=
135-137	B09WK1	D	3/22/94	0.47U	1.1U	174B	0.47U	833=	3.6=	33=	32=
138-140	B09WK2	N	3/22/94	0.47U	2.2B	226B	0.47U	1,390=	6.8=	53=	30=
138-140	B09WK3	SS	3/22/94	0.25U	0.42UJN	252U	0.26U	643=	5.5=	27=	23=

Table A-9c. 216-U-10 Pond Inorganics (Metals) Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Selenium (mg/kg)	Silver (mg/kg)	Sodium (mg/kg)	Thallium (mg/kg)	Titanium (mg/kg)	Uranium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
				CAS Number							
				778-24-9	744-02-2	7440-23-5	744-02-8	7440-32-6	UTOT	744-06-2	744-06-6
-	B09WK4	FB	3/23/94	0.40U	0.95U	33U	0.40U	3.8=	0.20=	1.9U	9.6U
-	B09WK5	EB	3/23/94	0.37U	0.96U	39U	0.37U	3.1=	0.22=	1.9U	0.96U
Test Pit 216-U-10 TP-2											
6.5-6.5	B09316	N	8/21/93	1.4UJW	24=	288B	1.2U	1,050=	270X	40=	645=
6.5-7.5	B09313	N	8/21/93	0.76UJMW	1.2B	187B	0.65U	1,570=	1.4X	49=	39=
9-10	B09317	N	8/22/93	0.84U	2.0B	222B	0.72U	2,420=	1.7X	73=	49=
9-10	B09314	SS	8/22/93	0.42U	1.3U	123B	0.83U	1,480=	--	44=	37=
9-10	B09315	D	8/22/93	0.67UJW	1.7B	182B	0.58U	2,040=	1.9X	60=	43=
15-17	B09318	N	8/22/93	0.71UJW	1.6B	218B	0.61U	2,110=	1.4X	63=	44=
25-26	B09319	N	8/22/93	0.69UJW	2.0B	222B	0.59U	2,220=	1.2U	70=	44=
-	B09320	FB	8/22/93	0.69U	0.67U	29B	0.59U	3.1B	0.17=	0.45U	1.1U
-	B09338	EB	8/21/93	0.69U	0.67U	26B	0.59U	2.1U	0.19=	0.45U	0.80U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
\- Not analyzed
= Detected

Table A-10a. 216-U-10 Pond PCBs and Pesticides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Aldrin (mg/kg)	Alpha-BHC (mg/kg)	Alpha-Chlordane (mg/kg)	Aroclor-1016 (mg/kg)	Aroclor-1221 (mg/kg)	Aroclor-1232 (mg/kg)	Aroclor-1242 (mg/kg)	Aroclor-1248 (mg/kg)
				CAS Number							
				309-00-2	319-84-6	5103-71-9	12674-11-2	11104-28-2	11141-16-5	53469-21-9	12672-29-6
Borehole 299-W23-231											
2-4	B09WI8	N	3/10/94	0.0015UJ	0.0012U	--	0.025U	0.038U	0.038U	0.025U	0.038U
4-6	B09WI9	N	3/10/94	0.0018U	0.0018U	0.0018U	0.034U	0.070U	0.034U	0.034U	0.034U
6-8	B09WJ0	N	3/11/94	0.0017U	0.0017U	0.0017U	0.034U	0.069U	0.034U	0.034U	0.034U
15-17	B09WJ3	N	3/14/94	0.0018U	0.0018U	0.0018U	0.034U	0.069U	0.034U	0.034U	0.034U
40-42	B09WJ4	N	3/15/94	0.0018U	0.0018U	0.0018U	0.034U	0.070U	0.034U	0.034U	0.034U
50-52	B09WJ5	N	3/15/94	0.0018U	0.0018U	0.0018U	0.035U	0.071U	0.035U	0.035U	0.035U
60-62	B09WJ7	N	3/16/94	0.0018U	0.0018U	0.0018U	0.035U	0.071U	0.035U	0.035U	0.035U
110-112	B09WJ9	N	3/21/94	0.0021U	0.0021U	0.0021U	0.041U	0.083U	0.041U	0.041U	0.041U
135-137	B09WK0	N	3/22/94	0.0016U	0.0012U	--	--	0.040U	0.040U	0.025U	0.040U
135-137	B09WK1	D	3/22/94	0.0020U	0.0020U	0.0020U	0.039U	0.080U	0.039U	0.039U	0.039U
138-140	B09WK2	N	3/22/94	0.0020U	0.0020U	0.0020U	0.039U	0.079U	0.039U	0.039U	0.039U
138-140	B09WK3	SS	3/22/94	0.0020U	0.0020UJ	--	0.038UJ	0.076UJ	0.038U	0.038U	0.038U
-	B09WK4	FB	3/23/94	0.0017U	0.0017U	0.0017U	0.033U	0.067U	0.033U	0.033U	0.033U
-	B09WK5	EB	3/23/94	0.0017U	0.0017U	0.0017U	0.033U	0.067U	0.033U	0.033U	0.033U
Test Pit 216-U-10-TP-2											
6.5-6.5	B09316	N	8/21/93	0.0029U	0.0029U	0.0029U	0.056U	0.11U	0.056U	0.056U	0.056U
6.5-7.5	B09313	N	8/21/93	0.0018U	0.0018U	0.0018U	0.036U	0.073U	0.036U	0.036U	0.036U
9-10	B09317	N	8/22/93	0.0018U	0.0018U	0.0018U	0.034U	0.070U	0.034U	0.034U	0.034U
9-10	B09314	SS	8/22/93	--	--	--	0.035UJ	0.069UJ	0.035UJ	0.035UJ	0.035UJ
9-10	B09315	D	8/22/93	0.0017U	0.0017U	0.0017U	0.034U	0.069U	0.034U	0.034U	0.034U
15-17	B09318	N	8/22/93	0.0018U	0.0018U	0.0018U	0.034U	0.070U	0.034U	0.034U	0.034U
25-26	B09319	N	8/22/93	0.0018U	0.0018U	0.0018U	0.034U	0.069U	0.034U	0.034U	0.034U
-	B09320	FB	8/22/93	0.0017U	0.0017U	0.0017U	0.033U	0.066U	0.033U	0.033U	0.033U
-	B09338	EB	8/21/93	0.0017U	0.0017U	0.0017U	0.033U	0.066U	0.033U	0.033U	0.033U

BHC = Benzene hexachloride
CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
\- Not analyzed

Table A-10b. 216-U-10 Pond PCBs and Pesticides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Aroclor-1254 (mg/kg)	Aroclor-1260 (mg/kg)	Beta-BHC (mg/kg)	Delta-BHC (mg/kg)	Dichlorodiphenyl-dichloroethane (mg/kg)	Dichlorodiphenyl-dichloroethylene (mg/kg)	Dichlorodiphenyl-trichloroethane (mg/kg)
				CAS Number						
				11097-69-1	11096-82-5	319-85-7	319-86-8	--	DDE44	--
Borehole 299-W23-231										
2-4	B09WI8	N	3/10/94	0.041=	0.048=	0.0023U	0.0035U	0.0042U	0.0015U	0.0046UJ
4-6	B09WI9	N	3/10/94	0.034U	0.034U	0.0018U	0.0018U	0.0036=	0.0034U	0.0034U
6-8	B09WJ0	N	3/11/94	0.034U	0.034U	0.0017U	0.0017U	0.0034U	0.0034U	0.0034U
15-17	B09WJ3	N	3/14/94	0.034U	0.034U	0.0018U	0.0018U	0.0034U	0.0034U	0.0034U
40-42	B09WJ4	N	3/15/94	0.034U	0.034U	0.0018U	0.0018U	0.0034U	0.0034U	0.0034U
50-52	B09WJ5	N	3/15/94	0.035U	0.035U	0.0018U	0.0018U	0.0035U	0.0035U	0.0035U
60-62	B09WJ7	N	3/16/94	0.035U	0.035U	0.0018U	0.0018U	0.0035U	0.0035U	0.0035U
110-112	B09WJ9	N	3/21/94	0.041U	0.041U	0.0021U	0.0021U	0.0041U	0.0041U	0.0041U
135-137	B09WK0	N	3/22/94	0.040U	0.040U	0.0024U	0.0036U	0.0044U	0.0016U	0.0048U
135-137	B09WK1	D	3/22/94	0.039U	0.039U	0.0020U	0.0020U	0.0039U	0.0039U	0.0039U
138-140	B09WK2	N	3/22/94	0.039U	0.039U	0.0020U	0.0020U	0.0039U	0.0039U	0.0039U
138-140	B09WK3	SS	3/22/94	0.038U	0.038U	0.0020U	0.0020U	0.0038U	0.0038U	0.0038U
-	B09WK4	FB	3/23/94	0.033U	0.033U	0.0017U	0.0017U	0.0033U	0.0033U	0.0033U
-	B09WK5	EB	3/23/94	0.033U	0.033U	0.0017U	0.0017U	0.0033U	0.0033U	0.0033U
Test Pit 216-U-10-TP-2										
6.5-6.5	B09316	N	8/21/93	0.056U	0.15J	0.0029U	0.0029U	0.0056U	0.0056U	0.0056U
6.5-7.5	B09313	N	8/21/93	0.036U	0.036U	0.0018U	0.0018U	0.0036U	0.0036U	0.0036U
9-10	B09317	N	8/22/93	0.034U	0.034U	0.0018U	0.0018U	0.0034U	0.0034U	0.0034U
9-10	B09314	SS	8/22/93	0.035UJ	0.035UJ	--	--	--	--	--
9-10	B09315	D	8/22/93	0.034U	0.034U	0.0017U	0.0017U	0.0034U	0.0034U	0.0034U
15-17	B09318	N	8/22/93	0.034U	0.034U	0.0018U	0.0018U	0.0034U	0.0034U	0.0034U
25-26	B09319	N	8/22/93	0.034U	0.034U	0.0018U	0.0018U	0.0034U	0.0034U	0.0034U
-	B09320	FB	8/22/93	0.033U	0.033U	0.0017U	0.0017U	0.0033U	0.0033U	0.0033U
-	B09338	EB	8/21/93	0.033U	0.033U	0.0017U	0.0017U	0.0033U	0.0033U	0.0033U

Table A-10b. 216-U-10 Pond PCBs and Pesticides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Aroclor-1254 (mg/kg)	Aroclor-1260 (mg/kg)	Beta-BHC (mg/kg)	Delta-BHC (mg/kg)	Dichlorodiphenyl-dichloroethane (mg/kg)	Dichlorodiphenyl-dichloroethylene (mg/kg)	Dichlorodiphenyl-trichloroethane (mg/kg)
				CAS Number						
				11097-69-1	11096-82-5	319-85-7	319-86-8	--	DDE44	--

BHC = benzene hexachloride
CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-10c. 216-U-10 Pond PCBs and Pesticides Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Dieldrin (mg/kg)	Endosulfan I (mg/kg)	Endosulfan II (mg/kg)	Endosulfan sulfate (mg/kg)	Endrin (mg/kg)	Endrin aldehyde (mg/kg)	Endrin ketone (mg/kg)
				CAS Number						
				60-57-1	959-98-8	33213-65-9	1031-07-8	72-20-8	7421-93-4	53494-70-5
Borehole 299-W23-231										
2-4	B09WI8	N	3/10/94	7.70E-04U	0.0054UJ	0.0015U	0.025U	0.0023UJ	0.0088UJ	--
4-6	B09WI9	N	3/10/94	0.0034U	0.0018U	0.0034U	0.0034U	0.0034U	0.0034U	0.0034U
6-8	B09WJ0	N	3/11/94	0.0034U	0.0017U	0.0034U	0.0034U	0.0034U	0.0034U	0.0034U
15-17	B09WJ3	N	3/14/94	0.0034U	0.0018U	0.0034U	0.0034U	0.0034U	0.0034U	0.0034U
40-42	B09WJ4	N	3/15/94	0.0034U	0.0018U	0.0034U	0.0034U	0.0034U	0.0034U	0.0034U
50-52	B09WJ5	N	3/15/94	0.0035U	0.0018U	0.0035U	0.0035U	0.0035U	0.0035U	0.0035U
60-62	B09WJ7	N	3/16/94	0.0035U	0.0018U	0.0035U	0.0035U	0.0035U	0.0035U	0.0035U
110-112	B09WJ9	N	3/21/94	0.0041U	0.0021U	0.0041U	0.0041U	0.0041U	0.0041U	0.0041U
135-137	B09WK0	N	3/22/94	8.00E-04U	0.0056U	0.0016U	0.026U	0.0024U	--	0.0092U
135-137	B09WK1	D	3/22/94	0.0039U	0.0020U	0.0039U	0.0039U	0.0039U	0.0039U	0.0039U
138-140	B09WK2	N	3/22/94	0.0039U	0.0020U	0.0039U	0.0039U	0.0039U	0.0039U	0.0039U
138-140	B09WK3	SS	3/22/94	0.0038U	0.0020U	0.0038U	0.0038U	0.0038U	0.0038U	0.0038U
-	B09WK4	FB	3/23/94	0.0033U	0.0017U	0.0033U	0.0033U	0.0033U	0.0033U	0.0033U
-	B09WK5	EB	3/23/94	0.0033U	0.0017U	0.0033U	0.0033U	0.0033U	0.0033U	0.0033U
Test Pit 216-U-10-TP-2										
6.5-6.5	B09316	N	8/21/93	0.0056U	0.0029U	0.0056U	0.0056U	0.0056U	0.0056U	0.0056U
6.5-7.5	B09313	N	8/21/93	0.0036U	0.0018U	0.0036U	0.0036U	0.0036U	0.0036U	0.0036U
9-10	B09317	N	8/22/93	0.0034U	0.0018U	0.0034U	0.0034U	0.0034U	0.0034U	0.0034U
9-10	B09314	SS	8/22/93	--	--	--	--	--	--	--
9-10	B09315	D	8/22/93	0.0034U	0.0017U	0.0034U	0.0034U	0.0034U	0.0034U	0.0034U
15-17	B09318	N	8/22/93	0.0034U	0.0018U	0.0034U	0.0034U	0.0034U	0.0034U	0.0034U
25-26	B09319	N	8/22/93	0.0034U	0.0018U	0.0034U	0.0034U	0.0034U	0.0034U	0.0034U
-	B09320	FB	8/22/93	0.0033U	0.0017U	0.0033U	0.0033U	0.0033U	0.0033U	0.0033U
-	B09338	EB	8/21/93	0.0033U	0.0017U	0.0033U	0.0033U	0.0033U	0.0033U	0.0033U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed

Table A-10d. 216-U-10 Pond PCBs and Pesticides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Gamma-BHC (Lindane) (mg/kg)	gamma-Chlordane (mg/kg)	Heptachlor (mg/kg)	Heptachlor epoxide (mg/kg)	High boiling hydrocarbons (mg/kg)	Methoxychlor (mg/kg)	Toxaphene (mg/kg)
				CAS Number						
				58-89-9	12789-03-6	76-44-8	1024-57-3	--	72-43-5	8001-35-2
Shoreline Samples										
3-3.3	B0BKN8	N	4/5/94	--	--	--	--	10U	--	--
3-3.3	B0BKP4	N	3/30/94	--	--	--	--	25U	--	--
3-3.3	B0BKP6	N	3/31/94	--	--	--	--	10U	--	--
3-3.3	B0BNQ0	N	3/31/94	--	--	--	--	10U	--	--
3-3.3	B0BNQ1	N	3/31/94	--	--	--	--	10U	--	--
3-3.3	B0BNQ2	N	3/31/94	--	--	--	--	10U	--	--
3-3.3	B0BNQ6	N	3/31/94	--	--	--	--	10U	--	--
3-3.3	B0BNQ7	N	3/31/94	--	--	--	--	10U	--	--
Borehole 299-W23-231										
2-4	B09WI8	N	3/10/94	0.0015UJ	--	0.0012UJ	0.032U	--	0.068UJ	0.092U
4-6	B09WI9	N	3/10/94	0.0018U	0.0018U	0.0018U	0.0018U	--	0.018U	0.18U
6-8	B09WJ0	N	3/11/94	0.0017U	0.0017U	0.0017U	0.0017U	--	0.017U	0.17U
15-17	B09WJ3	N	3/14/94	0.0018U	0.0018U	0.0018U	0.0018U	--	0.018U	0.18U
40-42	B09WJ4	N	3/15/94	0.0018U	0.0018U	0.0018U	0.0018U	--	0.018U	0.18U
50-52	B09WJ5	N	3/15/94	0.0018U	0.0018U	0.0018U	0.0018U	--	0.018U	0.18U
60-62	B09WJ7	N	3/16/94	0.0018U	0.0018U	0.0018U	0.0018U	--	0.018U	0.18U
110-112	B09WJ9	N	3/21/94	0.0021U	0.0021U	0.0021U	0.0021U	--	0.021U	0.21U
135-137	B09WK0	N	3/22/94	0.0016U	--	0.0012U	0.033U	--	0.070U	0.096U
135-137	B09WK1	D	3/22/94	0.0020U	0.0020U	0.0020U	0.0020U	--	0.020U	0.20U
138-140	B09WK2	N	3/22/94	0.0020U	0.0020U	0.0020U	0.0020U	--	0.020U	0.20U
138-140	B09WK3	SS	3/22/94	0.0020U	--	0.0020U	0.0020U	--	0.020U	0.20U
-	B09WK4	FB	3/23/94	0.0017U	0.0017U	0.0017U	0.0017U	--	0.017U	0.17U
-	B09WK5	EB	3/23/94	0.0017U	0.0017U	0.0017U	0.0017U	--	0.017U	0.17U

Table A-10d. 216-U-10 Pond PCBs and Pesticides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Gamma-BHC (Lindane) (mg/kg)	gamma-Chlordane (mg/kg)	Heptachlor (mg/kg)	Heptachlor epoxide (mg/kg)	High boiling hydrocarbons (mg/kg)	Methoxychlor (mg/kg)	Toxaphene (mg/kg)
				CAS Number						
				58-89-9	12789-03-6	76-44-8	1024-57-3	--	72-43-5	8001-35-2
Test Pit 216-U-10-TP-2										
6.5-6.5	B09316	N	8/21/93	0.0029U	0.0029U	0.0029U	0.0029U	--	0.029U	0.29U
6.5-7.5	B09313	N	8/21/93	0.0018U	0.0018U	0.0018U	0.0018U	--	0.018U	0.18U
9-10	B09317	N	8/22/93	0.0018U	0.0018U	0.0018U	0.0018U	--	0.018U	0.18U
9-10	B09314	SS	8/22/93	--	--	--	--	--	--	--
9-10	B09315	D	8/22/93	0.0017U	0.0017U	0.0017U	0.0017U	--	0.0016U	0.17U
15-17	B09318	N	8/22/93	0.0018U	0.0018U	0.0018U	0.0018U	--	0.018U	0.18U
25-26	B09319	N	8/22/93	0.0018U	0.0018U	0.0018U	0.0018U	--	0.018U	0.18U
-	B09320	FB	8/22/93	0.0017U	0.0017U	0.0017U	0.0017U	--	0.017U	0.17U
-	B09338	EB	8/21/93	0.0017U	0.0017U	0.0017U	0.0017U	--	0.017U	0.17U

BHC = benzene hexachloride
CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed

Table A-11a. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Actinium-228 (pCi/g)	Actinium-228, Decayed (pCi/g)	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Barium-140 (pCi/g)	Barium-140, Decayed (pCi/g)	Beryllium-7 (pCi/g)	Beryllium-7, Decayed (pCi/g)	Bismuth-212 (pCi/g)	Bismuth-212, Decayed (pCi/g)
				CAS Number									
				14331-83-0	14331-83-0	14596-10-2	14596-10-2	14798-08-4	14798-08-4	13966-02-4	13966-02-4	14913-49-6	14913-49-6
Shoreline Samples													
3-3.3	B0BKN7	N	4/5/94	--	--	4.3=	4.3=	--	--	--	--	--	--
3-3.3	B0BKN8	N	4/5/94	--	--	0.93J	0.92J	--	--	--	--	--	--
3-3.3	B0BKN9	N	3/30/94	0.76=	0U	0.81J	0.80J	--	--	--	--	--	--
3-3.3	B0BKP4	N	3/30/94	0.70=	0U	14=	14=	--	--	--	--	--	--
3-3.3	B0BKP5	N	3/30/94	0.85=	0U	4.7J	4.7J	--	--	--	--	--	--
3-3.3	B0BKP6	N	3/31/94	0.76=	0U	0.68J	0.67J	--	--	--	--	--	--
3-3.3	B0BNQ0	N	3/31/94	0.84=	0U	0.80J	0.79J	--	--	--	--	0.58=	0U
3-3.3	B0BNQ1	N	3/31/94	0.70=	0U	0.68J	0.68J	--	--	--	--	--	--
3-3.3	B0BNQ2	N	3/31/94	0.61=	0U	0.65J	0.64J	--	--	--	--	--	--
3-3.3	B0BNQ3	N	3/31/94	0.56=	0U	3.5J	3.4J	--	--	--	--	--	--
3-3.3	B0BNQ6	N	3/31/94	0.76=	0U	0.75J	0.74J	--	--	--	--	--	--
3-3.3	B0BNQ7	N	3/31/94	--	--	0.84J	0.83J	--	--	--	--	--	--
3-3.3	B0BNQ8	N	3/31/94	0.69=	0U	0.72J	0.71J	--	--	--	--	--	--
Borehole 299-W23-231													
2-4	B09WI8	N	3/10/94	--	--	5.5=	5.4=	--	--	--	--	--	--
4-6	B09WI9	N	3/10/94	--	--	0.32=	0.31=	--	--	--	--	--	--
6-8	B09WJ0	N	3/11/94	--	--	0.084=	0.083=	--	--	--	--	--	--
15-17	B09WJ3	N	3/14/94	--	--	0.037=	0.036=	--	--	--	--	--	--
40-42	B09WJ4	N	3/15/94	--	--	0.0092=	0.0091=	--	--	--	--	--	--
50-52	B09WJ5	N	3/15/94	--	--	0.0097=	0.0096=	--	--	--	--	--	--
60-62	B09WJ7	N	3/16/94	--	--	0.0067=	0.0066=	--	--	--	--	--	--
110-112	B09WJ9	N	3/21/94	0.94=	0U	0.79J	0.78J	--	--	--	--	--	--
135-137	B09WK0	N	3/22/94	--	--	0.83J	0.82J	--	--	--	--	--	--
135-137	B09WK1	D	3/22/94	1.5=	0U	0.69J	0.68J	--	--	--	--	--	--

Table A-11a. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Actinium-228 (pCi/g)	Actinium-228, Decayed (pCi/g)	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Barium-140 (pCi/g)	Barium-140, Decayed (pCi/g)	Beryllium-7 (pCi/g)	Beryllium-7, Decayed (pCi/g)	Bismuth-212 (pCi/g)	Bismuth-212, Decayed (pCi/g)
				CAS Number									
				14331-83-0	14331-83-0	14596-10-2	14596-10-2	14798-08-4	14798-08-4	13966-02-4	13966-02-4	14913-49-6	14913-49-6
138-140	B09WK2	N	3/22/94	1.2=	0U	0.73J	0.72J	--	--	--	--	--	--
138-140	B09WK3	SS	3/22/94	--	--	0U	0U	--	--	--	--	--	--
-	B09WK4	FB	3/23/94	0.19=	0U	0.71J	0.70J	--	--	--	--	--	--
-	B09WK5	EB	3/23/94	0.16=	0U	0.63J	0.62J	--	--	--	--	--	--
Test Pit 216-U-10-TP-2													
6.5-6.5	B09316	N	8/21/93	--	--	45=	44=	--	--	--	--	--	--
6.5-7.5	B09313	N	8/21/93	--	--	0.0070U	0.0070U	--	--	--	--	--	--
9-10	B09317	N	8/22/93	--	--	0U	0U	--	--	--	--	--	--
9-10	B09314	SS	8/22/93	--	--	0.0014U	0.0014U	-2.80E-02U	-2.80E-02U	0.071U	0.071U	--	--
9-10	B09315	D	8/22/93	--	--	0.0050U	0.0050U	--	--	--	--	--	--
15-17	B09318	N	8/22/93	--	--	-2.00E-03U	-2.00E-03U	--	--	--	--	--	--
25-26	B09319	N	8/22/93	--	--	0.014J	0.014J	--	--	--	--	--	--
-	B09320	FB	8/22/93	--	--	0U	0U	--	--	--	--	--	--
-	B09338	EB	8/21/93	--	--	-2.00E-03U	-2.00E-03U	--	--	--	--	--	--

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-11b. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bismuth-214 (pCi/g)	Bismuth-214, Decayed (pCi/g)	Cerium-141 (pCi/g)	Cerium-141, Decayed (pCi/g)	Cerium-144 (pCi/g)	Cerium-144, Decayed (pCi/g)	Cesium-134 (pCi/g)	Cesium-134, Decayed (pCi/g)
				CAS Number							
				14733-03-0	14733-03-0	13967-74-3	13967-74-3	14762-78-8	14762-78-8	13967-70-9	13967-70-9
Shoreline Samples											
3-3.3	B0BKN7	N	4/5/94	--	--	--	--	--	--	0.050UJ	0.050UJ
3-3.3	B0BKN8	N	4/5/94	0.31=	0.23=	--	--	--	--	-5.02E-02U	-5.02E-02U
3-3.3	B0BKN9	N	3/30/94	0.58=	0.44=	--	--	--	--	-8.55E-03U	-8.55E-03U
3-3.3	B0BKP4	N	3/30/94	0.58=	0.44=	--	--	--	--	-5.21E-03U	-5.21E-03U
3-3.3	B0BKP5	N	3/30/94	0.65=	0.49=	--	--	--	--	-3.53E-03U	-3.53E-03U
3-3.3	B0BKP6	N	3/31/94	0.56=	0.42=	--	--	--	--	-1.91E-03U	-1.91E-03U
3-3.3	B0BNQ0	N	3/31/94	0.59=	0.45=	--	--	--	--	-4.73E-03U	-4.73E-03U
3-3.3	B0BNQ1	N	3/31/94	0.56=	0.42=	--	--	--	--	-2.07E-03U	-2.07E-03U
3-3.3	B0BNQ2	N	3/31/94	0.49=	0.37=	--	--	--	--	0.020U	0.020U
3-3.3	B0BNQ3	N	3/31/94	0.44=	0.34=	--	--	--	--	0.0017U	0.0017U
3-3.3	B0BNQ6	N	3/31/94	0.53=	0.40=	--	--	--	--	-2.40E-03U	-2.40E-03U
3-3.3	B0BNQ7	N	3/31/94	0.55=	0.41=	--	--	--	--	-4.67E-03U	-4.67E-03U
3-3.3	B0BNQ8	N	3/31/94	0.61=	0.46=	--	--	--	--	-1.57E-02U	-1.57E-02U
Borehole 299-W23-231											
2-4	B09WI8	N	3/10/94	--	--	--	--	--	--	-8.14E-02U	-8.14E-02U
4-6	B09WI9	N	3/10/94	--	--	--	--	--	--	0.017U	0.017U
6-8	B09WJ0	N	3/11/94	--	--	--	--	--	--	-6.20E-03UJ	-6.20E-03UJ
15-17	B09WJ3	N	3/14/94	--	--	--	--	--	--	0.0080U	0.0080U
40-42	B09WJ4	N	3/15/94	--	--	--	--	--	--	0.0032U	0.0032U
50-52	B09WJ5	N	3/15/94	--	--	--	--	--	--	-1.25E-02U	-1.25E-02U
60-62	B09WJ7	N	3/16/94	--	--	--	--	--	--	-2.32E-03U	-2.32E-03U
110-112	B09WJ9	N	3/21/94	0.64=	0.48=	--	--	--	--	0.0081U	0.0081U
135-137	B09WK0	N	3/22/94	--	--	--	--	--	--	-1.94E-01UJ	-1.94E-01UJ
135-137	B09WK1	D	3/22/94	1.1=	0.80=	--	--	--	--	0.0082U	0.0082U

Table A-11b. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bismuth-214 (pCi/g)	Bismuth-214, Decayed (pCi/g)	Cerium-141 (pCi/g)	Cerium-141, Decayed (pCi/g)	Cerium-144 (pCi/g)	Cerium-144, Decayed (pCi/g)	Cesium-134 (pCi/g)	Cesium-134, Decayed (pCi/g)
				CAS Number							
				14733-03-0	14733-03-0	13967-74-3	13967-74-3	14762-78-8	14762-78-8	13967-70-9	13967-70-9
138-140	B09WK2	N	3/22/94	0.98=	0.74=	--	--	--	--	0.0036U	0.0036U
138-140	B09WK3	SS	3/22/94	--	--	--	--	0.20U	0.20U	0.040U	0.040U
-	B09WK4	FB	3/23/94	--	--	--	--	--	--	-9.29E-04U	-9.29E-04U
-	B09WK5	EB	3/23/94	--	--	--	--	--	--	0.0054U	0.0054U
Test Pit 216-U-10-TP-2											
6.5-6.5	B09316	N	8/21/93	--	--	--	--	10U	10U	0.60U	0.60U
6.5-7.5	B09313	N	8/21/93	--	--	--	--	0.40U	0.40U	0.10U	0.10U
9-10	B09317	N	8/22/93	--	--	--	--	0.30U	0.30U	0.040U	0.040U
9-10	B09314	SS	8/22/93	--	--	0.016U	0.016U	-7.10E-02U	-7.10E-02U	0.024U	0.024U
9-10	B09315	D	8/22/93	--	--	--	--	0.20U	0.20U	0.050U	0.050U
15-17	B09318	N	8/22/93	--	--	--	--	0.30U	0.30U	0.040U	0.040U
25-26	B09319	N	8/22/93	--	--	--	--	0.090U	0.090U	0.020U	0.020U
-	B09320	FB	8/22/93	--	--	--	--	0.040U	0.040U	0.010U	0.010U
-	B09338	EB	8/21/93	--	--	--	--	0.040U	0.040U	0.0090U	0.0090U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-11c. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-58 (pCi/g)	Cobalt-58, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Curium-242 (pCi/g)	Curium-242, Decayed (pCi/g)
				CAS Number							
				10045-97-3	10045-97-3	13981-38-9	13981-38-9	10198-40-0	10198-40-0	15510-73-3	15510-73-3
Shoreline Samples											
3-3.3	B0BKN7	N	4/5/94	209 J	174 J	--	--	45 J	16 J	-4.66E-04 U	-4.66E-04 U
3-3.3	B0BKN8	N	4/5/94	1,230 =	1,024 =	--	--	0.18 =	0.062 =	0 U	0 U
3-3.3	B0BKN9	N	3/30/94	0.73 =	0.61 =	--	--	0.025 =	0.0089 =	0.0083 U	0.0083 U
3-3.3	B0BKP4	N	3/30/94	10 =	8.5 =	--	--	0.0020 U	0.0020 U	-3.58E-04 U	-3.58E-04 U
3-3.3	B0BKP5	N	3/30/94	16 =	13 =	--	--	0.0059 U	0.0059 U	-6.52E-04 U	-6.52E-04 U
3-3.3	B0BKP6	N	3/31/94	9.42E-05 U	9.42E-05 U	--	--	-9.63E-03 U	-9.63E-03 U	-4.60E-04 U	-4.60E-04 U
3-3.3	B0BNQ0	N	3/31/94	34 =	29 =	--	--	0.0080 U	0.0080 U	0 U	0 U
3-3.3	B0BNQ1	N	3/31/94	0.12 =	0.10 =	--	--	-1.08E-03 U	-1.08E-03 U	-4.55E-04 U	-4.55E-04 U
3-3.3	B0BNQ2	N	3/31/94	146 =	121 =	--	--	0.0047 U	0.0047 U	0 U	0 U
3-3.3	B0BNQ3	N	3/31/94	67 =	56 =	--	--	0.030 =	0.010 =	-5.32E-04 U	-5.32E-04 U
3-3.3	B0BNQ6	N	3/31/94	36 =	30 =	--	--	0.0086 U	0.0086 U	0 U	0 U
3-3.3	B0BNQ7	N	3/31/94	106 =	88 =	--	--	-2.35E-03 U	-2.35E-03 U	0 U	0 U
3-3.3	B0BNQ8	N	3/31/94	15 =	13 =	--	--	0.0059 U	0.0059 U	0 U	0 U
Borehole 299-W23-231											
2-4	B09WI8	N	3/10/94	1,150 =	957 =	--	--	0.093 =	0.033 =	6.56E-04 U	6.56E-04 U
4-6	B09WI9	N	3/10/94	66 =	55 =	--	--	-1.56E-03 U	-1.56E-03 U	0.0016 U	0.0016 U
6-8	B09WJ0	N	3/11/94	0.78 J	0.65 J	--	--	0.025 UJ	0.025 UJ	8.57E-04 U	8.57E-04 U
15-17	B09WJ3	N	3/14/94	0.018 U	0.018 U	--	--	0.0036 U	0.0036 U	0.0045 U	0.0045 U
40-42	B09WJ4	N	3/15/94	0.0038 U	0.0038 U	--	--	0.013 U	0.013 U	0.0017 U	0.0017 U
50-52	B09WJ5	N	3/15/94	-5.51E-03 U	-5.51E-03 U	--	--	-6.53E-03 U	-6.53E-03 U	0.0013 U	0.0013 U
60-62	B09WJ7	N	3/16/94	0.0080 U	0.0080 U	--	--	0.0035 U	0.0035 U	0.0015 U	0.0015 U
110-112	*B09WJ9*	*N*	*3/21/94*	*-3.79E-03 U*	*-3.79E-03 U*	--	--	*-4.10E-03 U*	*-4.10E-03 U*	*0.011 U*	*0.011 U*
135-137	B09WK0	N	3/22/94	9,990 J	8,313 J	--	--	-1.89E-02 UJ	-1.89E-02 UJ	0 UJ	0 UJ
135-137	B09WK1	D	3/22/94	0.013 U	0.013 U	--	--	-1.31E-02 U	-1.31E-02 U	0 U	0 U

Table A-11c. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-58 (pCi/g)	Cobalt-58, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Curium-242 (pCi/g)	Curium-242, Decayed (pCi/g)
				CAS Number							
				10045-97-3	10045-97-3	13981-38-9	13981-38-9	10198-40-0	10198-40-0	15510-73-3	15510-73-3
138-140	B09WK2	N	3/22/94	0.0056 U	0.0056 U	--	--	-8.37E-05 U	-8.37E-05 U	-6.42E-04 U	-6.42E-04 U
138-140	B09WK3	SS	3/22/94	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	--	--
-	B09WK4	FB	3/23/94	0.0019 U	0.0019 U	--	--	0.0040 U	0.0040 U	0 U	0 U
-	B09WK5	EB	3/23/94	-2.30E-03 U	-2.30E-03 U	--	--	-2.00E-02 U	-2.00E-02 U	-8.17E-04 U	-8.17E-04 U
Test Pit 216-U-10-TP-2											
6.5-6.5	B09316	N	8/21/93	4,800 =	3,994 =	0.60 U	0.60 U	0.41 =	0.14 =	--	--
6.5-7.5	B09313	N	8/21/93	0.47 =	0.39 =	0.10 U	0.10 U	0.080 U	0.080 U	--	--
9-10	B09317	N	8/22/93	0.80 =	0.67 =	0.040 U	0.040 U	0.040 U	0.040 U	--	--
9-10	B09314	SS	8/22/93	1.8 =	1.5 =	-3.30E-03 U	-3.30E-03 U	0 U	0 U	--	--
9-10	B09315	D	8/22/93	0.49 =	0.41 =	0.040 U	0.040 U	0.040 U	0.040 U	--	--
15-17	B09318	N	8/22/93	1.0 =	0.83 =	0.040 U	0.040 U	0.040 U	0.040 U	--	--
25-26	B09319	N	8/22/93	1.3 =	1.1 =	0.010 U	0.010 U	0.010 U	0.010 U	--	--
-	B09320	FB	8/22/93	0.0080 U	0.0080 U	0.0090 U	0.0090 U	0.0080 U	0.0080 U	--	--
-	B09338	EB	8/21/93	0.0070 U	0.0070 U	0.0080 U	0.0080 U	0.0080 U	0.0080 U	--	--

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QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-11d. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Curium-244 (pCi/g)	Curium-244, Decayed (pCi/g)	Europium-152 (pCi/g)	Europium-152, Decayed (pCi/g)	Europium-154 (pCi/g)	Europium-154, Decayed (pCi/g)	Europium-155 (pCi/g)	Europium-155, Decayed (pCi/g)
				CAS Number							
				13981-15-2	13981-15-2	14683-23-9	14683-23-9	15585-10-1	15585-10-1	14391-16-3	14391-16-3
Shoreline Samples											
3-3.3	B0BKN7	N	4/5/94	0.033=	0.024=	0.64J	0.43J	23J	12J	5.4J	1.7J
3-3.3	B0BKN8	N	4/5/94	0U	0U	0.18=	0.12=	0.13=	0.068=	-5.29E-02U	-5.29E-02U
3-3.3	B0BKN9	N	3/30/94	0.0062U	0.0062U	0.062U	0.062U	0.018U	0.018U	0.037U	0.037U
3-3.3	B0BKP4	N	3/30/94	-3.58E-04U	-3.58E-04U	0.054U	0.054U	-1.06E-02U	-1.06E-02U	0.016U	0.016U
3-3.3	B0BKP5	N	3/30/94	0.0051U	0.0051U	0.022U	0.022U	-3.20E-02U	-3.20E-02U	0.073=	0.022=
3-3.3	B0BKP6	N	3/31/94	-1.12E-03U	-1.12E-03U	0.068U	0.068U	0.0013U	0.0013U	0.040U	0.040U
3-3.3	B0BNQ0	N	3/31/94	0U	0U	0.088U	0.088U	0.020U	0.020U	0.092U	0.092U
3-3.3	B0BNQ1	N	3/31/94	-3.70E-04U	-3.70E-04U	0.085=	0.056=	-3.95E-02U	-3.95E-02U	0.036U	0.036U
3-3.3	B0BNQ2	N	3/31/94	0U	0U	0.058U	0.058U	-3.05E-02U	-3.05E-02U	0.12U	0.12U
3-3.3	B0BNQ3	N	3/31/94	-8.75E-04U	-8.75E-04U	0.071=	0.047=	0.0015U	0.0015U	0.0072U	0.0072U
3-3.3	B0BNQ6	N	3/31/94	0U	0U	0.091=	0.061=	-3.34E-03U	-3.34E-03U	0.030U	0.030U
3-3.3	B0BNQ7	N	3/31/94	-3.82E-04U	-3.82E-04U	0.079U	0.079U	0.037U	0.037U	0.072U	0.072U
3-3.3	B0BNQ8	N	3/31/94	0U	0U	0.050U	0.050U	0.0041U	0.0041U	0.035U	0.035U
Borehole 299-W23-231											
2-4	B09WI8	N	3/10/94	0.0092J	0.0085J	0.023U	0.023U	0.17=	0.088=	-2.19E-01U	-2.19E-01U
4-6	B09WI9	N	3/10/94	0.0018U	0.0018U	0.033U	0.033U	0.0051U	0.0051U	0.070U	0.070U
6-8	B09WJ0	N	3/11/94	0.0012U	0.0012U	0.018UJ	0.018UJ	-1.15E-02UJ	-1.15E-02UJ	0.032UJ	0.032UJ
15-17	B09WJ3	N	3/14/94	0.0066=	0.0049=	0.045U	0.045U	0.033U	0.033U	0.070=	0.021=
40-42	B09WJ4	N	3/15/94	0.0017U	0.0017U	0.0025U	0.0025U	0.029U	0.029U	0.030U	0.030U
50-52	B09WJ5	N	3/15/94	0.011U	0.011U	0.063U	0.063U	-2.12E-02U	-2.12E-02U	0.068=	0.021=
60-62	B09WJ7	N	3/16/94	0.0013U	0.0013U	0.13=	0.084=	0.049U	0.049U	0.072=	0.022=
110-112	B09WJ9	N	3/21/94	-6.75E-04U	-6.75E-04U	0.11U	0.11U	0.014U	0.014U	0.042U	0.042U
135-137	B09WK0	N	3/22/94	0UJ	0UJ	0.037UJ	0.037UJ	0.29UJ	0.29UJ	-4.82E-01UJ	-4.82E-01UJ
135-137	B09WK1	D	3/22/94	0.0096U	0.0096U	0.15=	0.10=	0.0053U	0.0053U	0.11=	0.033=

Table A-11d. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Curium-244 (pCi/g)	Curium-244, Decayed (pCi/g)	Europium-152 (pCi/g)	Europium-152, Decayed (pCi/g)	Europium-154 (pCi/g)	Europium-154, Decayed (pCi/g)	Europium-155 (pCi/g)	Europium-155, Decayed (pCi/g)
				CAS Number							
				13981-15-2	13981-15-2	14683-23-9	14683-23-9	15585-10-1	15585-10-1	14391-16-3	14391-16-3
138-140	B09WK2	N	3/22/94	0.0059U	0.0059U	0.070U	0.070U	0.0088U	0.0088U	0.050U	0.050U
138-140	B09WK3	SS	3/22/94	-4.00E-03U	-4.00E-03U	0.070U	0.070U	0.040U	0.040U	0.090U	0.090U
-	B09WK4	FB	3/23/94	0U	0U	-2.98E-04U	-2.98E-04U	-1.98E-02U	-1.98E-02U	0.0076U	0.0076U
-	B09WK5	EB	3/23/94	-1.30E-03U	-1.30E-03U	-2.81E-02U	-2.81E-02U	-6.72E-03U	-6.72E-03U	0.017U	0.017U
Test Pit 216-U-10-TP-2											
6.5-6.5	B09316	N	8/21/93	0.017U	0.017U	6.0U	6.0U	4.0U	4.0U	8.0U	8.0U
6.5-7.5	B09313	N	8/21/93	0.0020U	0.0020U	0.20U	0.20U	0.10U	0.10U	0.20U	0.20U
9-10	B09317	N	8/22/93	0.0050U	0.0050U	0.10U	0.10U	0.060U	0.060U	0.10U	0.10U
9-10	B09314	SS	8/22/93	0.0014U	0.0014U	-3.70E-01U	-3.70E-01U	-2.30E-02U	-2.30E-02U	0.0093U	0.0093U
9-10	B09315	D	8/22/93	-2.00E-03U	-2.00E-03U	0.10U	0.10U	0.070U	0.070U	0.10U	0.10U
15-17	B09318	N	8/22/93	0U	0U	0.10U	0.10U	0.070U	0.070U	0.10U	0.10U
25-26	B09319	N	8/22/93	-2.00E-03U	-2.00E-03U	0.040U	0.040U	0.030U	0.030U	0.060U	0.060U
-	B09320	FB	8/22/93	0U	0U	0.020U	0.020U	0.010U	0.010U	0.020U	0.020U
-	B09338	EB	8/21/93	0.0020U	0.0020U	0.020U	0.020U	0.010U	0.010U	0.020U	0.020U

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ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-11e. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Gross Alpha (pCi/g)	Gross Alpha, Decayed (pCi/g)	GrossBeta (pCi/g)	Gross Beta, Decayed (pCi/g)	Iodine-129 (pCi/g)	Iodine-129, Decayed (pCi/g)	Iodine-131 (pCi/g)	Iodine-131, Decayed (pCi/g)
				CAS Number							
				ALPHA	ALPHA	ALPHAB	ALPHAB	15046-84-1	15046-84-1	10043-66-0	10043-66-0
Shoreline Samples											
3-3.3	B0BKN7	N	4/5/94	60=	60=	217=	217=	-1.86E+01U	-1.86E+01U	--	--
3-3.3	B0BKN8	N	4/5/94	16=	16=	701=	701=	-7.01E+01U	-7.01E+01U	--	--
3-3.3	B0BKN9	N	3/30/94	15=	15=	25=	25=	-5.58E-01U	-5.58E-01U	--	--
3-3.3	B0BKP4	N	3/30/94	658=	658=	35=	35=	-8.50E-01UJ	-8.50E-01UJ	--	--
3-3.3	B0BKP5	N	3/30/94	53=	53=	37=	37=	-8.94E-01U	-8.94E-01U	--	--
3-3.3	B0BKP6	N	3/31/94	15=	15=	27=	27=	0.19U	0.19U	--	--
3-3.3	B0BNQ0	N	3/31/94	14=	14=	78=	78=	-6.52E-01U	-6.52E-01U	--	--
3-3.3	B0BNQ1	N	3/31/94	11=	11=	25=	25=	0.42U	0.42U	--	--
3-3.3	B0BNQ2	N	3/31/94	19=	19=	505=	505=	-8.58E+00U	-8.58E+00U	--	--
3-3.3	B0BNQ3	N	3/31/94	31=	31=	147=	147=	-2.66E+00U	-2.66E+00U	--	--
3-3.3	B0BNQ6	N	3/31/94	15=	15=	72=	72=	-2.04E+00U	-2.04E+00U	--	--
3-3.3	B0BNQ7	N	3/31/94	12=	12=	284=	284=	-4.33E+00U	-4.33E+00U	--	--
3-3.3	B0BNQ8	N	3/31/94	14=	14=	50=	50=	0.048U	0.048U	--	--
Borehole 299-W23-231											
2-4	B09WI8	N	3/10/94	43=	43=	1,370=	1,370=	--	--	--	--
4-6	B09WI9	N	3/10/94	0.13U	0.13U	125=	125=	-4.79E+00U	-4.79E+00U	--	--
6-8	B09WJ0	N	3/11/94	7.3=	7.3=	30=	30=	0.26U	0.26U	--	--
15-17	B09WJ3	N	3/14/94	5.0=	5.0=	64=	64=	0.19U	0.19U	--	--
40-42	B09WJ4	N	3/15/94	3.8=	3.8=	18=	18=	-8.23E-03U	-8.23E-03U	--	--
50-52	B09WJ5	N	3/15/94	5.2=	5.2=	20=	20=	-4.69E-01U	-4.69E-01U	--	--
60-62	B09WJ7	N	3/16/94	5.2=	5.2=	21=	21=	0.42U	0.42U	--	--
110-112	B09WJ9	N	3/21/94	6.8=	6.8=	23=	23=	-7.78E-01U	-7.78E-01U	--	--
135-137	B09WK0	N	3/22/94	81J	81J	9,480J	9,480J	-8.57E+02UJ	-8.57E+02UJ	--	--
135-137	B09WK1	D	3/22/94	17=	17=	29=	29=	0.34U	0.34U	--	--

Table A-11e. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Gross Alpha (pCi/g)	Gross Alpha, Decayed (pCi/g)	GrossBeta (pCi/g)	Gross Beta, Decayed (pCi/g)	Iodine-129 (pCi/g)	Iodine-129, Decayed (pCi/g)	Iodine-131 (pCi/g)	Iodine-131, Decayed (pCi/g)
				CAS Number							
				ALPHA	ALPHA	ALPHAB	ALPHAB	15046-84-1	15046-84-1	10043-66-0	10043-66-0
138-140	B09WK2	N	3/22/94	15=	15=	22=	22=	-8.11E-02U	-8.11E-02U	--	--
138-140	B09WK3	SS	3/22/94	15=	15=	13=	13=	-3.60E-01U	-3.60E-01U	--	--
-	B09WK4	FB	3/23/94	0.45U	0.45U	4.5=	4.5=	0.097U	0.097U	--	--
-	B09WK5	EB	3/23/94	0.91U	0.91U	3.3=	3.3=	-5.05E-01U	-5.05E-01U	--	--
Test Pit 216-U-10-TP-2											
6.5-6.5	B09316	N	8/21/93	220=	220=	3,700=	3,700=	-2.00E-01U	-2.00E-01U	--	--
6.5-7.5	B09313	N	8/21/93	9.9J	9.9J	25=	25=	-1.40E-01U	-1.40E-01U	--	--
9-10	B09317	N	8/22/93	6.8J	6.8J	53=	53=	0.51U	0.51U	--	--
9-10	B09314	SS	8/22/93	4.2=	4.2=	85=	85=	--	--	0.014U	0.014U
9-10	B09315	D	8/22/93	9.0J	9.0J	49=	49=	-5.00E-01U	-5.00E-01U	--	--
15-17	B09318	N	8/22/93	9.8J	9.8J	72=	72=	-9.80E-02U	-9.80E-02U	--	--
25-26	B09319	N	8/22/93	4.8J	4.8J	73=	73=	-1.30E+00U	-1.30E+00U	--	--
-	B09320	FB	8/22/93	1.3U	1.3U	3.8U	3.8U	--	--	-6.40E-01U	-6.40E-01U
-	B09338	EB	8/21/93	-1.30E+00U	-1.30E+00U	-2.10E-01U	-2.10E-01U	-6.20E-01U	-6.20E-01U	--	--

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-11f. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Iron-59 (pCi/g)	Iron-59, Decayed (pCi/g)	Lead-212 (pCi/g)	Lead-212, Decayed (pCi/g)	Lead-214 (pCi/g)	Lead-214, Decayed (pCi/g)	Manganese-54 (pCi/g)	Manganese-54, Decayed (pCi/g)
				CAS Number							
				14596-12-4	14596-12-4	35-80-0	35-80-0	15067-28-4	15067-28-4	13966-31-9	13966-31-9
Shoreline Samples											
3-3.3	B0BKN7	N	4/5/94	--	--	0.63J	0U	0.68J	0U	--	--
3-3.3	B0BKN8	N	4/5/94	--	--	0.53=	0U	--	--	--	--
3-3.3	B0BKN9	N	3/30/94	--	--	0.71=	0U	0.61=	0U	--	--
3-3.3	B0BKP4	N	3/30/94	--	--	0.68=	0U	0.56=	0U	--	--
3-3.3	B0BKP5	N	3/30/94	--	--	0.87=	0U	0.72=	0U	--	--
3-3.3	B0BKP6	N	3/31/94	--	--	0.74=	0U	0.62=	0U	--	--
3-3.3	B0BNQ0	N	3/31/94	--	--	0.76=	0U	0.66=	0U	--	--
3-3.3	B0BNQ1	N	3/31/94	--	--	0.65=	0U	0.58=	0U	--	--
3-3.3	B0BNQ2	N	3/31/94	--	--	0.59=	0U	0.44=	0U	--	--
3-3.3	B0BNQ3	N	3/31/94	--	--	0.47=	0U	0.42=	0U	--	--
3-3.3	B0BNQ6	N	3/31/94	--	--	0.72=	0U	0.71=	0U	--	--
3-3.3	B0BNQ7	N	3/31/94	--	--	0.61=	0U	0.53=	0U	--	--
3-3.3	B0BNQ8	N	3/31/94	--	--	0.67=	0U	0.63=	0U	--	--
Borehole 299-W23-231											
110-112	B09WJ9	N	3/21/94	--	--	0.81=	0U	0.66=	0U	--	--
135-137	B09WK0	N	3/22/94	--	--	--	--	--	--	--	--
135-137	B09WK1	D	3/22/94	--	--	1.5=	0U	1.2=	0U	0.031=	4.71E-05U
138-140	B09WK2	N	3/22/94	--	--	1.1=	0U	0.99=	0U	--	--
138-140	B09WK3	SS	3/22/94	0.080U	0.080U	--	--	--	--	0.030U	0.030U
-	B09WK4	FB	3/23/94	--	--	0.11=	0U	0.13=	0U	--	--
-	B09WK5	EB	3/23/94	--	--	0.12=	0U	0.12=	0U	--	--
Test Pit 216-U-10-TP-2											
6.5-6.5	B09316	N	8/21/93	0.90U	0.90U	--	--	--	--	0.50U	0.50U
6.5-7.5	B09313	N	8/21/93	0.30U	0.30U	--	--	--	--	0.080U	0.080U
9-10	B09317	N	8/22/93	0.10U	0.10U	--	--	--	--	0.040U	0.040U

Table A-11f. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Iron-59 (pCi/g)	Iron-59, Decayed (pCi/g)	Lead-212 (pCi/g)	Lead-212, Decayed (pCi/g)	Lead-214 (pCi/g)	Lead-214, Decayed (pCi/g)	Manganese-54 (pCi/g)	Manganese-54, Decayed (pCi/g)
				CAS Number							
				14596-12-4	14596-12-4	35-80-0	35-80-0	15067-28-4	15067-28-4	13966-31-9	13966-31-9
9-10	B09314	SS	8/22/93	0.0058U	0.0058U	--	--	--	--	-4.50E-03U	-4.50E-03U
9-10	B09315	D	8/22/93	0.10U	0.10U	--	--	--	--	0.040U	0.040U
15-17	B09318	N	8/22/93	0.090U	0.090U	--	--	--	--	0.040U	0.040U
25-26	B09319	N	8/22/93	0.040U	0.040U	--	--	--	--	0.010U	0.010U
-	B09320	FB	8/22/93	0.020U	0.020U	--	--	--	--	0.0090U	0.0090U
-	B09338	EB	8/21/93	0.020U	0.020U	--	--	--	--	0.0090U	0.0090U

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- Not analyzed
= Detected

Table A-11g. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Neptunium-237 (pCi/g)	Neptunium-237, Decayed (pCi/g)	Niobium-94 (pCi/g)	Niobium-94, Decayed (pCi/g)	Plutonium-238 (pCi/g)	Plutonium-238, Decayed (pCi/g)	Plutonium-239 (pCi/g)	Plutonium-239, Decayed (pCi/g)
				CAS Number							
				13994-20-2	13994-20-2	14681-63-1	14681-63-1	13981-16-3	13981-16-3	15117-48-3	15117-48-3
Shoreline Samples											
3-3.3	B0BKN7	N	4/5/94	0.033J	0.033J	--	--	0.65=	0.61=	--	--
3-3.3	B0BKN8	N	4/5/94	0.014U	0.014U	--	--	0.037=	0.035=	--	--
3-3.3	B0BKN9	N	3/30/94	0UJ	0UJ	--	--	0.0031U	0.0031U	--	--
3-3.3	B0BKP4	N	3/30/94	0.0042U	0.0042U	--	--	1.2J	1.1J	--	--
3-3.3	B0BKP5	N	3/30/94	0.0073UJ	0.0073UJ	--	--	0.52=	0.49=	--	--
3-3.3	B0BKP6	N	3/31/94	0UJ	0UJ	--	--	-9.30E-04U	-9.30E-04U	--	--
3-3.3	B0BNQ0	N	3/31/94	0.014U	0.014U	--	--	0.017U	0.017U	--	--
3-3.3	B0BNQ1	N	3/31/94	0.0068UJ	0.0068UJ	--	--	0.013U	0.013U	--	--
3-3.3	B0BNQ2	N	3/31/94	0.027U	0.027U	--	--	0.0059U	0.0059U	--	--
3-3.3	B0BNQ3	N	3/31/94	0.0073UJ	0.0073UJ	--	--	3.1=	2.9=	--	--
3-3.3	B0BNQ6	N	3/31/94	0.0062UJ	0.0062UJ	--	--	0.034U	0.034U	--	--
3-3.3	B0BNQ7	N	3/31/94	0.020U	0.020U	--	--	0.014U	0.014U	--	--
3-3.3	B0BNQ8	N	3/31/94	0.015U	0.015U	--	--	0U	0U	--	--
Borehole 299-W23-231											
2-4	B09WI8	N	3/10/94	0.10J	0.10J	--	--	5.4=	5.1=	--	--
4-6	B09WI9	N	3/10/94	0.013U	0.013U	--	--	0.28=	0.27=	--	--
6-8	B09WJ0	N	3/11/94	0.0067UJ	0.0067UJ	--	--	0.13=	0.12=	--	--
15-17	B09WJ3	N	3/14/94	-5.35E-04UJ	-5.35E-04UJ	--	--	0.087=	0.081=	--	--
40-42	B09WJ4	N	3/15/94	0UJ	0UJ	--	--	0.014U	0.014U	--	--
50-52	B09WJ5	N	3/15/94	-1.60E-03UJ	-1.60E-03UJ	--	--	0UJ	0UJ	--	--
60-62	B09WJ7	N	3/16/94	-1.34E-03UJ	-1.34E-03UJ	--	--	0.0024UJ	0.0024UJ	--	--
110-112	B09WJ9	N	3/21/94	-1.46E-03UJ	-1.46E-03UJ	--	--	0U	0U	--	--
135-137	B09WK0	N	3/22/94	0UJ	0UJ	--	--	0.052J	0.049J	--	--
135-137	B09WK1	D	3/22/94	-5.85E-04UJ	-5.85E-04UJ	--	--	0.0091U	0.0091U	--	--
138-140	B09WK2	N	3/22/94	0UJ	0UJ	--	--	0.0043U	0.0043U	--	--

Table A-11g. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Neptunium-237 (pCi/g)	Neptunium-237, Decayed (pCi/g)	Niobium-94 (pCi/g)	Niobium-94, Decayed (pCi/g)	Plutonium-238 (pCi/g)	Plutonium-238, Decayed (pCi/g)	Plutonium-239 (pCi/g)	Plutonium-239, Decayed (pCi/g)
				CAS Number							
				13994-20-2	13994-20-2	14681-63-1	14681-63-1	13981-16-3	13981-16-3	15117-48-3	15117-48-3
138-140	B09WK3	SS	3/22/94	0.019U	0.019U	0.030U	0.030U	0.0050U	0.0050U	--	--
-	B09WK4	FB	3/23/94	0.0059UJ	0.0059UJ	--	--	0U	0U	--	--
-	B09WK5	EB	3/23/94	0.0073UJ	0.0073UJ	--	--	-2.66E-03U	-2.66E-03U	--	--
Test Pit 216-U-10-TP-2											
6.5-6.5	B09316	N	8/21/93	0.28J	0.28J	0.50U	0.50U	23=	22=	--	--
6.5-7.5	B09313	N	8/21/93	-1.10E-02U	-1.10E-02U	0.070U	0.070U	0.026U	0.026U	--	--
9-10	B09317	N	8/22/93	0U	0U	0.040U	0.040U	0.0090U	0.0090U	--	--
9-10	B09314	SS	8/22/93	0.0047U	0.0047U	--	--	4.20E-04U	4.20E-04U	0.0038U	0.0038U
9-10	B09315	D	8/22/93	0.12=	0.12=	0.030U	0.030U	0.015U	0.015U	--	--
15-17	B09318	N	8/22/93	0.0040U	0.0040U	0.030U	0.030U	0.016U	0.016U	--	--
25-26	B09319	N	8/22/93	0U	0U	0.010U	0.010U	0.019U	0.019U	--	--
-	B09320	FB	8/22/93	0.013U	0.013U	0.0080U	0.0080U	0.0060U	0.0060U	--	--
-	B09338	EB	8/21/93	0.028U	0.028U	0.0070U	0.0070U	0.015U	0.015U	--	--

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\- Not analyzed
= Detected

Table A-11h. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium-224 (pCi/g)	Radium-224, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)
				CAS Number							
				PLUT239240	PLUT239240	13966-00-2	13966-00-2	13233-32-4	13233-32-4	13982-63-3	13982-63-3
Shoreline Samples											
3-3.3	B0BKN7	N	4/5/94	5.2=	5.2=	9.7J	9.7J	--	--	0.90J	0.90J
3-3.3	B0BKN8	N	4/5/94	1.2=	1.2=	13=	13=	--	--	--	--
3-3.3	B0BKN9	N	3/30/94	0.39=	0.39=	14J	14J	0.74=	1.25E-241U	0.58=	0.58=
3-3.3	B0BKP4	N	3/30/94	75J	75J	13=	13=	0.71=	1.20E-241U	0.58=	0.58=
3-3.3	B0BKP5	N	3/30/94	22=	22=	15J	15J	0.90=	1.52E-241U	0.65=	0.65=
3-3.3	B0BKP6	N	3/31/94	0.023=	0.023=	14=	14=	0.77=	1.30E-241U	0.56=	0.56=
3-3.3	B0BNQ0	N	3/31/94	0.24=	0.24=	15=	15=	0.77=	1.30E-241U	0.59=	0.59=
3-3.3	B0BNQ1	N	3/31/94	0.033U	0.033U	13=	13=	0.68=	1.15E-241U	0.56=	0.56=
3-3.3	B0BNQ2	N	3/31/94	0.075J	0.075J	13=	13=	0.58=	9.85E-242U	0.49=	0.49=
3-3.3	B0BNQ3	N	3/31/94	3.7=	3.7=	11J	11J	0.49=	8.18E-242U	0.44=	0.44=
3-3.3	B0BNQ6	N	3/31/94	0.23=	0.23=	15=	15=	0.75=	1.26E-241U	0.53=	0.53=
3-3.3	B0BNQ7	N	3/31/94	0.20=	0.20=	14=	14=	0.63=	1.07E-241U	0.55=	0.55=
3-3.3	B0BNQ8	N	3/31/94	0.13=	0.13=	13J	13J	0.70=	1.17E-241U	0.61=	0.61=
Borehole 299-W23-231											
2-4	B09WI8	N	3/10/94	27J	27J	14=	14=	--	--	--	--
4-6	B09WI9	N	3/10/94	1.6=	1.6=	13=	13=	--	--	--	--
6-8	B09WJ0	N	3/11/94	0.29=	0.29=	12J	12J	--	--	--	--
15-17	B09WJ3	N	3/14/94	0.11=	0.11=	11=	11=	--	--	--	--
40-42	B09WJ4	N	3/15/94	-9.42E-04U	-9.42E-04U	12=	12=	--	--	--	--
50-52	B09WJ5	N	3/15/94	0.0040U	0.0040U	12=	12=	--	--	--	--
60-62	B09WJ7	N	3/16/94	--	--	16=	16=	--	--	--	--
110-112	B09WJ9	N	3/21/94	0U	0U	15J	15J	0.84=	1.42E-241U	0.64=	0.64=
135-137	B09WK0	N	3/22/94	1.5J	1.5J	14J	14J	--	--	--	--
135-137	B09WK1	D	3/22/94	0.018U	0.018U	16J	16J	1.5=	2.60E-241U	1.1=	1.1=

Table A-11h. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium-224 (pCi/g)	Radium-224, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)
				CAS Number							
				PLUT239240	PLUT239240	13966-00-2	13966-00-2	13233-32-4	13233-32-4	13982-63-3	13982-63-3
138-140	B09WK2	N	3/22/94	0.0053U	0.0053U	10J	10J	1.1=	1.87E-241U	0.98=	0.98=
138-140	B09WK3	SS	3/22/94	0.0020U	0.0020U	9.9=	9.9=	--	--	0.89=	0.89=
-	B09WK4	FB	3/23/94	-1.18E-03U	-1.18E-03U	0.24J	0.24J	0.11=	1.84E-242U	--	--
-	B09WK5	EB	3/23/94	0U	0U	0.18U	0.18U	0.12=	2.04E-242U	0.083=	0.083=
Test Pit 216-U-10-TP-2											
6.5-6.5	B09316	N	8/21/93	36=	36=	12=	12=	--	--	5.0UJ	5.0UJ
6.5-7.5	B09313	N	8/21/93	0.026U	0.026U	12=	12=	--	--	0.37J	0.37J
9-10	B09317	N	8/22/93	0.018U	0.018U	12=	12=	--	--	0.51J	0.51J
9-10	B09314	SS	8/22/93	--	--	12=	12=	--	--	1.1=	1.1=
9-10	B09315	D	8/22/93	0.018U	0.018U	9.7=	9.7=	--	--	0.44J	0.44J
15-17	B09318	N	8/22/93	0.0080U	0.0080U	10=	10=	--	--	0.48J	0.48J
25-26	B09319	N	8/22/93	0.023U	0.023U	9.9=	9.9=	--	--	0.36J	0.36J
-	B09320	FB	8/22/93	0.039U	0.039U	0.40U	0.40U	--	--	0.091J	0.091J
-	B09338	EB	8/21/93	0.021J	0.021J	0.41U	0.41U	--	--	0.081J	0.081J

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- Not analyzed
= Detected

Table A-11i. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Radium-228 (pCi/g)	Radium-228, Decayed (pCi/g)	Ruthenium-103 (pCi/g)	Ruthenium-103, Decayed (pCi/g)	Ruthenium-106 (pCi/g)	Ruthenium-106, Decayed (pCi/g)	Selenium-79 (pCi/g)	Selenium-79, Decayed (pCi/g)
				CAS Number							
				15262-20-1	15262-20-1	13968-53-1	13968-53-1	13967-48-1	13967-48-1	--	--
Shoreline Samples											
3-3.3	B0BKN7	N	4/5/94	--	--	--	--	0.079UJ	0.079UJ	3.6J	3.6J
3-3.3	B0BKN8	N	4/5/94	--	--	--	--	-8.12E-01U	-8.12E-01U	17J	17J
3-3.3	B0BKN9	N	3/30/94	0.77=	0.30=	--	--	0.0014U	0.0014U	0.44UJ	0.44UJ
3-3.3	B0BKP4	N	3/30/94	0.71=	0.27=	--	--	0.021U	0.021U	-2.71E-01UJ	-2.71E-01UJ
3-3.3	B0BKP5	N	3/30/94	0.86=	0.33=	--	--	0.080U	0.080U	-9.68E-01UJ	-9.68E-01UJ
3-3.3	B0BKP6	N	3/31/94	0.77=	0.29=	--	--	-2.22E-02U	-2.22E-02U	0.96UJ	0.96UJ
3-3.3	B0BNQ0	N	3/31/94	0.85=	0.32=	--	--	-7.74E-02U	-7.74E-02U	1.0UJ	1.0UJ
3-3.3	B0BNQ1	N	3/31/94	0.71=	0.27=	--	--	0.022U	0.022U	0.72UJ	0.72UJ
3-3.3	B0BNQ2	N	3/31/94	0.61=	0.23=	--	--	-5.56E-02U	-5.56E-02U	5.4J	5.4J
3-3.3	B0BNQ3	N	3/31/94	0.57=	0.22=	--	--	0.27U	0.27U	-3.85E-01UJ	-3.85E-01UJ
3-3.3	B0BNQ6	N	3/31/94	0.77=	0.29=	--	--	0.0013U	0.0013U	1.9J	1.9J
3-3.3	B0BNQ7	N	3/31/94	--	--	--	--	0.24U	0.24U	5.3J	5.3J
3-3.3	B0BNQ8	N	3/31/94	0.70=	0.27=	--	--	0.074U	0.074U	-8.18E-01UJ	-8.18E-01UJ
Borehole 299-W23-231											
2-4	B09WI8	N	3/10/94	--	--	--	--	-1.21E+00U	-1.21E+00U	20J	20J
4-6	B09WI9	N	3/10/94	--	--	--	--	-1.36E-01U	-1.36E-01U	1.2J	1.2J
6-8	B09WJ0	N	3/11/94	--	--	--	--	-9.45E-02UJ	-9.45E-02UJ	0.87J	0.87J
15-17	B09WJ3	N	3/14/94	--	--	--	--	0.028U	0.028U	1.8J	1.8J
40-42	B09WJ4	N	3/15/94	--	--	--	--	-1.86E-02U	-1.86E-02U	-5.42E-01UJ	-5.42E-01UJ
50-52	B09WJ5	N	3/15/94	--	--	--	--	-6.24E-02U	-6.24E-02U	-1.24E-01UJ	-1.24E-01UJ
60-62	B09WJ7	N	3/16/94	--	--	--	--	-9.29E-02U	-9.29E-02U	0.60UJ	0.60UJ
110-112	B09WJ9	N	3/21/94	0.96=	0.37=	--	--	-6.72E-02U	-6.72E-02U	0.57UJ	0.57UJ
135-137	B09WK0	N	3/22/94	--	--	--	--	-9.15E-01UJ	-9.15E-01UJ	46J	46J
135-137	B09WK1	D	3/22/94	1.5=	0.57=	--	--	0.087U	0.087U	0.94UJ	0.94UJ

Table A-11i. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Radium-228 (pCi/g)	Radium-228, Decayed (pCi/g)	Ruthenium-103 (pCi/g)	Ruthenium-103, Decayed (pCi/g)	Ruthenium-106 (pCi/g)	Ruthenium-106, Decayed (pCi/g)	Selenium-79 (pCi/g)	Selenium-79, Decayed (pCi/g)
				CAS Number							
				15262-20-1	15262-20-1	13968-53-1	13968-53-1	13967-48-1	13967-48-1	--	--
138-140	B09WK2	N	3/22/94	1.2=	0.46=	--	--	0.051U	0.051U	1.7J	1.7J
138-140	B09WK3	SS	3/22/94	1.1=	0.42=	0.040U	0.040U	0.30U	0.30U	0.70U	0.70U
-	B09WK4	FB	3/23/94	0.19=	0.074=	--	--	-9.74E-03U	-9.74E-03U	-3.23E-01UJ	-3.23E-01UJ
-	B09WK5	EB	3/23/94	0.17=	0.063=	--	--	0.051U	0.051U	-8.13E-01UJ	-8.13E-01UJ
Test Pit 216-U-10-TP-2											
6.5-6.5	B09316	N	8/21/93	2.6=	0.99=	5.0U	5.0U	30U	30U	2.0=	2.0=
6.5-7.5	B09313	N	8/21/93	0.45=	0.17=	0.090U	0.090U	0.70U	0.70U	0.98U	0.98U
9-10	B09317	N	8/22/93	0.85=	0.32=	0.050U	0.050U	0.40U	0.40U	-2.00E-01U	-2.00E-01U
9-10	B09314	SS	8/22/93	--	--	0U	0U	-7.10E-02U	-7.10E-02U	--	--
9-10	B09315	D	8/22/93	0.58=	0.22=	0.040U	0.040U	0.30U	0.30U	0.99U	0.99U
15-17	B09318	N	8/22/93	0.59=	0.23=	0.050U	0.050U	0.30U	0.30U	0.56U	0.56U
25-26	B09319	N	8/22/93	0.49=	0.19=	0.020U	0.020U	0.10U	0.10U	-1.00E-02U	-1.00E-02U
-	B09320	FB	8/22/93	0.11=	0.042=	0.010U	0.010U	0.070U	0.070U	1.8U	1.8U
-	B09338	EB	8/21/93	0.10=	0.038=	0.0090U	0.0090U	0.070U	0.070U	14=	14=

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-11j. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Sodium-22 (pCi/g)	Sodium-22, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)	Technetium-99 (pCi/g)	Technetium-99, Decayed (pCi/g)	Thallium-208 (pCi/g)	Thallium-208, Decayed (pCi/g)
				CAS Number							
				13966-32-0	13966-32-0	10098-97-2	10098-97-2	14133-76-7	14133-76-7	560-00-0	560-00-0
Shoreline Samples											
3-3.3	B0BKN7	N	4/5/94	8.2J	8.2J	33=	27=	2.8J	2.8J	--	--
3-3.3	B0BKN8	N	4/5/94	0.047=	0.0056=	4.5=	3.7=	0.57UJ	0.57UJ	--	--
3-3.3	B0BKN9	N	3/30/94	0.0065U	0.0065U	0.17J	0.14J	0.23UJ	0.23UJ	0.24=	0U
3-3.3	B0BKP4	N	3/30/94	-1.66E-03U	-1.66E-03U	0.71=	0.59=	-2.28E-01UJ	-2.28E-01UJ	0.24=	0U
3-3.3	B0BKP5	N	3/30/94	-1.16E-02U	-1.16E-02U	0.72J	0.59J	-3.60E-02UJ	-3.60E-02UJ	0.31=	0U
3-3.3	B0BKP6	N	3/31/94	7.61E-04U	7.61E-04U	0.084U	0.084U	-3.07E-01UJ	-3.07E-01UJ	0.23=	0U
3-3.3	B0BNQ0	N	3/31/94	0.014U	0.014U	1.4=	1.1=	0.50UJ	0.50UJ	--	--
3-3.3	B0BNQ1	N	3/31/94	-1.13E-02U	-1.13E-02U	0.15U	0.15U	-1.98E-02UJ	-1.98E-02UJ	0.23=	0U
3-3.3	B0BNQ2	N	3/31/94	-8.27E-03U	-8.27E-03U	12=	10=	0.78UJ	0.78UJ	--	--
3-3.3	B0BNQ3	N	3/31/94	5.25E-04U	5.25E-04U	0.88J	0.73J	0.80U	0.80U	--	--
3-3.3	B0BNQ6	N	3/31/94	-1.21E-03U	-1.21E-03U	1.2=	0.97=	0.25UJ	0.25UJ	0.23=	0U
3-3.3	B0BNQ7	N	3/31/94	0.0043U	0.0043U	8.0=	6.6=	0.90J	0.90J	--	--
3-3.3	B0BNQ8	N	3/31/94	0.0015U	0.0015U	2.0J	1.6J	1.2J	1.2J	0.24=	0U
Borehole 299-W23-231											
2-4	B09WI8	N	3/10/94	0.055=	0.0065=	2.0J	1.7J	0.58=	0.58=	--	--
4-6	B09WI9	N	3/10/94	-6.27E-03U	-6.27E-03U	0.19J	0.15J	0.19UJ	0.19UJ	--	--
6-8	B09WJ0	N	3/11/94	0.0061UJ	0.0061UJ	3.0J	2.5J	0.15UJ	0.15UJ	--	--
15-17	B09WJ3	N	3/14/94	0.0050U	0.0050U	15J	12J	0.087UJ	0.087UJ	--	--
40-42	B09WJ4	N	3/15/94	0.010U	0.010U	0.0057U	0.0057U	0.058UJ	0.058UJ	--	--
50-52	B09WJ5	N	3/15/94	-7.58E-03U	-7.58E-03U	-9.34E-03U	-9.34E-03U	-6.74E-02UJ	-6.74E-02UJ	--	--
60-62	B09WJ7	N	3/16/94	0.018U	0.018U	0.0017U	0.0017U	-3.03E-02UJ	-3.03E-02UJ	--	--
110-112	B09WJ9	N	3/21/94	-4.59E-03U	-4.59E-03U	0.020U	0.020U	0.33UJ	0.33UJ	0.32=	0U
135-137	B09WK0	N	3/22/94	0.11UJ	0.11UJ	2.0J	1.7J	4.6J	4.6J	--	--
135-137	B09WK1	D	3/22/94	0.0019U	0.0019U	0.0041U	0.0041U	0.23UJ	0.23UJ	0.46=	0U

Table A-11j. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Sodium-22 (pCi/g)	Sodium-22, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)	Technetium-99 (pCi/g)	Technetium-99, Decayed (pCi/g)	Thallium-208 (pCi/g)	Thallium-208, Decayed (pCi/g)
				CAS Number							
				13966-32-0	13966-32-0	10098-97-2	10098-97-2	14133-76-7	14133-76-7	560-00-0	560-00-0
138-140	B09WK2	N	3/22/94	0.0044U	0.0044U	0.011U	0.011U	-4.90E-02UJ	-4.90E-02UJ	0.39=	0U
138-140	B09WK3	SS	3/22/94	0.030U	0.030U	0.027U	0.027U	0.17U	0.17U	--	--
-	B09WK4	FB	3/23/94	-7.16E-03U	-7.16E-03U	0.0052U	0.0052U	-5.13E-01UJ	-5.13E-01UJ	--	--
-	B09WK5	EB	3/23/94	-2.43E-03U	-2.43E-03U	0.0071U	0.0071U	0.14UJ	0.14UJ	0.046=	0U
Test Pit 216-U-10-TP-2											
6.5-6.5	B09316	N	8/21/93	0.90U	0.90U	190=	157=	8.8=	8.8=	--	--
6.5-7.5	B09313	N	8/21/93	0.10U	0.10U	0.94J	0.78J	0.045U	0.045U	--	--
9-10	B09317	N	8/22/93	0.050U	0.050U	16=	13=	0.12J	0.12J	--	--
9-10	B09314	SS	8/22/93	-7.90E-03U	-7.90E-03U	16=	13=	1.1=	1.1=	--	--
9-10	B09315	D	8/22/93	0.060U	0.060U	13=	11=	0.19J	0.19J	--	--
15-17	B09318	N	8/22/93	0.040U	0.040U	34=	28=	0.044U	0.044U	--	--
25-26	B09319	N	8/22/93	0.020U	0.020U	15=	12=	0.12J	0.12J	--	--
-	B09320	FB	8/22/93	0.0080U	0.0080U	0.12U	0.12U	0.053U	0.053U	--	--
-	B09338	EB	8/21/93	0.0080U	0.0080U	0.074U	0.074U	0.20J	0.20J	--	--

CAS = Chemical Abstracts Service
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= Detected

Table A-11k. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Thorium-228 (pCi/g)	Thorium-228, Decayed (pCi/g)	Thorium-232 (pCi/g)	Thorium-232, Decayed (pCi/g)	Thorium-234 (pCi/g)	Thorium-234, Decayed (pCi/g)	Tin-113 (pCi/g)	Tin-113, Decayed (pCi/g)	Uranium-233/234 (pCi/g)	Uranium-233/234, Decayed (pCi/g)
				CAS Number									
				14274-82-9	14274-82-9	7440-29-1	7440-29-1	15065-10-8	15065-10-8	13966-06-8	13966-06-8	U-233234	U-233234
Shoreline Samples													
3-3.3	B0BKN7	N	4/5/94	--	--	--	--	70U	70U	--	--	--	--
3-3.3	B0BKN8	N	4/5/94	--	--	--	--	--	--	--	--	--	--
3-3.3	B0BKN9	N	3/30/94	--	--	0.76=	0.76=	8.3=	2.75E-36U	--	--	--	--
3-3.3	B0BKP4	N	3/30/94	--	--	0.70=	0.70=	--	--	--	--	--	--
3-3.3	B0BKP5	N	3/30/94	--	--	0.85=	0.85=	7.2=	2.37E-36U	--	--	--	--
3-3.3	B0BKP6	N	3/31/94	--	--	0.76=	0.76=	--	--	--	--	--	--
3-3.3	B0BNQ0	N	3/31/94	--	--	0.84=	0.84=	--	--	--	--	--	--
3-3.3	B0BNQ1	N	3/31/94	--	--	0.70=	0.70=	7.1=	2.34E-36U	--	--	--	--
3-3.3	B0BNQ2	N	3/31/94	--	--	0.61=	0.61=	--	--	--	--	--	--
3-3.3	B0BNQ3	N	3/31/94	--	--	0.56=	0.56=	6.0=	1.97E-36U	--	--	--	--
3-3.3	B0BNQ6	N	3/31/94	--	--	0.76=	0.76=	--	--	--	--	--	--
3-3.3	B0BNQ7	N	3/31/94	--	--	0.69=	0.69=	--	--	--	--	--	--
3-3.3	B0BNQ8	N	3/31/94	--	--	0.69=	0.69=	4.8=	1.59E-36U	--	--	--	--
Borehole 299-W23-231													
110-112	B09WJ9	N	3/21/94	--	--	0.94=	0.94=	11=	3.47E-36U	--	--	--	--
135-137	B09WK0	N	3/22/94	--	--	--	--	421J	1.39E-34U	--	--	--	--
135-137	B09WK1	D	3/22/94	--	--	1.5=	1.5=	16=	5.22E-36U	--	--	--	--
138-140	B09WK2	N	3/22/94	--	--	1.2=	1.2=	12=	3.97E-36U	--	--	--	--
138-140	B09WK3	SS	3/22/94	1.3=	0.072=	1.1=	1.1=	--	--	0.040U	0.040U	1.7=	1.7=
-	B09WK4	FB	3/23/94	--	--	0.19=	0.19=	4.2=	1.39E-36U	--	--	--	--
-	B09WK5	EB	3/23/94	--	--	0.16=	0.16=	--	--	--	--	--	--

Table A-11k. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Thorium-228 (pCi/g)	Thorium-228, Decayed (pCi/g)	Thorium-232 (pCi/g)	Thorium-232, Decayed (pCi/g)	Thorium-234 (pCi/g)	Thorium-234, Decayed (pCi/g)	Tin-113 (pCi/g)	Tin-113, Decayed (pCi/g)	Uranium-233/234 (pCi/g)	Uranium-233/234, Decayed (pCi/g)
				CAS Number									
				14274-82-9	14274-82-9	7440-29-1	7440-29-1	15065-10-8	15065-10-8	13966-06-8	13966-06-8	U-233234	U-233234
Test Pit 216-U-10-TP-2													
6.5-6.5	B09316	N	8/21/93	5.0U	5.0U	2.6=	2.6=	--	--	6.0U	6.0U	85=	85=
6.5-7.5	B09313	N	8/21/93	0.64=	0.035=	0.45=	0.45=	--	--	0.10U	0.10U	0.52=	0.52=
9-10	B09317	N	8/22/93	0.69=	0.038=	0.85=	0.85=	--	--	0.050U	0.050U	0.69=	0.69=
9-10	B09314	SS	8/22/93	0.63=	0.035=	--	--	0.25U	0.25U	--	--	--	--
9-10	B09315	D	8/22/93	0.83=	0.046=	0.58=	0.58=	--	--	0.050U	0.050U	0.77=	0.77=
15-17	B09318	N	8/22/93	0.77=	0.042=	0.59=	0.59=	--	--	0.060U	0.060U	0.63=	0.63=
25-26	B09319	N	8/22/93	0.51=	0.028=	0.49=	0.49=	--	--	0.020U	0.020U	0.48=	0.48=
-	B09320	FB	8/22/93	0.11=	0.0061=	0.11=	0.11=	--	--	0.010U	0.010U	-1.30E-02U	-1.30E-02U
-	B09338	EB	8/21/93	0.14=	0.0077=	0.10=	0.10=	--	--	0.010U	0.010U	0.068U	0.068U

CAS = Chemical Abstracts Service
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QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-111. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Uranium-234 (pCi/g)	Uranium-234, Decayed (pCi/g)	Uranium-235 (pCi/g)	Uranium-235, Decayed (pCi/g)	Uranium-238 (pCi/g)	Uranium-238, Decayed (pCi/g)	Zinc-65 (pCi/g)	Zinc-65, Decayed (pCi/g)	Zirconium-95 (pCi/g)	Zirconium-95, Decayed (pCi/g)
				CAS Number									
				13966-29-5	13966-29-5	15117-96-1	15117-96-1	7440-61-1	7440-61-1	13982-39-3	13982-39-3	13967-71-0	13967-71-0
Shoreline Samples													
3-3.3	B0BKN7	N	4/5/94	33=	33=	1.1J	1.1J	11J	11J	--	--	--	--
3-3.3	B0BKN8	N	4/5/94	1.2=	1.2=	0.061=	0.061=	1.1=	1.1=	--	--	--	--
3-3.3	B0BKN9	N	3/30/94	0.94=	0.94=	0.043J	0.043J	0.93=	0.93=	--	--	--	--
3-3.3	B0BKP4	N	3/30/94	1.1=	1.1=	0.10J	0.10J	0.88=	0.88=	--	--	--	--
3-3.3	B0BKP5	N	3/30/94	0.82=	0.82=	0.035U	0.035U	1.0=	1.0=	--	--	--	--
3-3.3	B0BKP6	N	3/31/94	0.50=	0.50=	0.013U	0.013U	0.50=	0.50=	--	--	--	--
3-3.3	B0BNQ0	N	3/31/94	0.63=	0.63=	0.022U	0.022U	0.92=	0.92=	--	--	--	--
3-3.3	B0BNQ1	N	3/31/94	0.58=	0.58=	0.021U	0.021U	0.55=	0.55=	--	--	--	--
3-3.3	B0BNQ2	N	3/31/94	1.3=	1.3=	0.038U	0.038U	0.96=	0.96=	--	--	--	--
3-3.3	B0BNQ3	N	3/31/94	1.3=	1.3=	0.081J	0.081J	1.1=	1.1=	--	--	--	--
3-3.3	B0BNQ6	N	3/31/94	0.93=	0.93=	0.13=	0.13=	0.75=	0.75=	--	--	--	--
3-3.3	B0BNQ7	N	3/31/94	1.5=	1.5=	0.040U	0.040U	1.5=	1.5=	--	--	--	--
3-3.3	B0BNQ8	N	3/31/94	3.7=	3.7=	0.14J	0.14J	3.9=	3.9=	--	--	--	--
Borehole 299-W23-231													
2-4	B09WI8	N	3/10/94	8.8=	8.8=	0.63=	0.63=	8.3J	8.3J	--	--	--	--
4-6	B09WI9	N	3/10/94	2.5=	2.5=	0.11=	0.11=	2.4=	2.4=	--	--	--	--
6-8	B09WJ0	N	3/11/94	1.6=	1.6=	0.077=	0.077=	1.5=	1.5=	--	--	--	--
15-17	B09WJ3	N	3/14/94	0.48=	0.48=	0.031=	0.031=	0.44=	0.44=	--	--	--	--
40-42	B09WJ4	N	3/15/94	0.65=	0.65=	0.033=	0.033=	0.64=	0.64=	--	--	--	--
50-52	B09WJ5	N	3/15/94	0.81=	0.81=	0.044=	0.044=	0.81=	0.81=	--	--	--	--
60-62	B09WJ7	N	3/16/94	0.75=	0.75=	0.034=	0.034=	--	--	--	--	--	--
110-112	B09WJ9	N	3/21/94	0.59=	0.59=	0.038J	0.038J	0.68=	0.68=	--	--	--	--
135-137	B09WK0	N	3/22/94	56J	56J	2.4J	2.4J	53J	53J	--	--	--	--
135-137	B09WK1	D	3/22/94	1.3=	1.3=	0.42J	0.42J	0.84=	0.84=	--	--	--	--

Table A-111. 216-U-10 Pond Radionuclides Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Uranium-234 (pCi/g)	Uranium-234, Decayed (pCi/g)	Uranium-235 (pCi/g)	Uranium-235, Decayed (pCi/g)	Uranium-238 (pCi/g)	Uranium-238, Decayed (pCi/g)	Zinc-65 (pCi/g)	Zinc-65, Decayed (pCi/g)	Zirconium-95 (pCi/g)	Zirconium-95, Decayed (pCi/g)
				CAS Number									
				13966-29-5	13966-29-5	15117-96-1	15117-96-1	7440-61-1	7440-61-1	13982-39-3	13982-39-3	13967-71-0	13967-71-0
138-140	B09WK2	N	3/22/94	2.2=	2.2=	0.086J	0.086J	2.1=	2.1=	--	--	--	--
138-140	B09WK3	SS	3/22/94	--	--	0.10=	0.10=	1.8=	1.8=	--	--	--	--
-	B09WK4	FB	3/23/94	0.10J	0.10J	0.0034U	0.0034U	0.088=	0.088=	--	--	--	--
-	B09WK5	EB	3/23/94	0.087J	0.087J	-1.36E-03U	-1.36E-03U	0.043=	0.043=	--	--	--	--
Test Pit 216-U-10-TP-2													
6.5-6.5	B09316	N	8/21/93	--	--	1.6U	1.6U	88=	88=	--	--	--	--
6.5-7.5	B09313	N	8/21/93	--	--	0.027U	0.027U	0.56=	0.56=	--	--	--	--
9-10	B09317	N	8/22/93	--	--	0.030U	0.030U	0.58=	0.58=	--	--	--	--
9-10	B09314	SS	8/22/93	0.16=	0.16=	0.0065U	0.0065U	0.016U	0.016U	0.0091U	0.0091U	0.0041U	0.0041U
9-10	B09315	D	8/22/93	--	--	0.015U	0.015U	0.80=	0.80=	--	--	--	--
15-17	B09318	N	8/22/93	--	--	0.042U	0.042U	0.55=	0.55=	--	--	--	--
25-26	B09319	N	8/22/93	--	--	0.011U	0.011U	0.43=	0.43=	--	--	--	--
-	B09320	FB	8/22/93	--	--	0.032U	0.032U	0.12J	0.12J	--	--	--	--
-	B09338	EB	8/21/93	--	--	0.033U	0.033U	0.041U	0.041U	--	--	--	--

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-12a. 216-U-10 Pond Semivolatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	1,2,4-Trichloro-benzene (mg/kg)	1,2-Dichloro-benzene (mg/kg)	1,3-Dichloro-benzene (mg/kg)	1,4-Dichloro-benzene (mg/kg)	2,4,5-Trichloro-phenol (mg/kg)	2,4,6-Trichloro-phenol (mg/kg)	2,4-Dichloro-phenol (mg/kg)	2,4-Dimethyl-phenol (mg/kg)	2,4-Dinitro-phenol (mg/kg)	2,4-Dinitro-toluene (mg/kg)
				CAS Number									
				120-82-1	95-50-1	541-73-1	106-46-7	95-95-4	88-06-2	120-83-2	105-67-9	51-28-5	121-14-2
Shoreline Samples													
3-3.3	B0BKN7	N	4/5/94	2.9U	2.9U	2.9U	2.9U	7.0U	2.9U	2.9U	2.9U	7.0U	2.9U
3-3.3	B0BKN8	N	4/5/94	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.83UJ	0.34UJ	0.34UJ	0.34UJ	0.83UJ	0.34UJ
3-3.3	B0BKN9	N	3/30/94	0.33U	0.33U	0.33U	0.33U	0.81U	0.33U	0.33U	0.33U	0.81U	0.33U
3-3.3	B0BKP4	N	3/30/94	0.33U	0.33U	0.33U	0.33U	0.81U	0.33U	0.33U	0.33U	0.81U	0.33U
3-3.3	B0BKP5	N	3/30/94	0.34U	0.34U	0.34U	0.34U	0.82U	0.34U	0.34U	0.34U	0.82U	0.34U
3-3.3	B0BKP6	N	3/31/94	0.34U	0.34U	0.34U	0.34U	0.81U	0.34U	0.34U	0.34U	0.81U	0.34U
3-3.3	B0BNQ0	N	3/31/94	0.33U	0.33U	0.33U	0.33U	0.81U	0.33U	0.33U	0.33U	0.81U	0.33U
3-3.3	B0BNQ1	N	3/31/94	0.34U	0.34U	0.34U	0.34U	0.81U	0.34U	0.34U	0.34U	0.81U	0.34U
3-3.3	B0BNQ2	N	3/31/94	0.33U	0.33U	0.33U	0.33U	0.81U	0.33U	0.33U	0.33U	0.81U	0.33U
3-3.3	B0BNQ3	N	3/31/94	0.34U	0.34U	0.34U	0.34U	0.81U	0.34U	0.34U	0.34U	0.81U	0.34U
3-3.3	B0BNQ6	N	3/31/94	0.33U	0.33U	0.33U	0.33U	0.80U	0.33U	0.33U	0.33U	0.80U	0.33U
3-3.3	B0BNQ7	N	3/31/94	0.34U	0.34U	0.34U	0.34U	0.81U	0.34U	0.34U	0.34U	0.81U	0.34U
3-3.3	B0BNQ8	N	3/31/94	0.34U	0.34U	0.34U	0.34U	0.82U	0.34U	0.34U	0.34U	0.82U	0.34U
Borehole 299-W23-231													
2-4	B09WI8	N	3/10/94	0.38U	0.38U	0.38U	0.38U	0.93U	0.38U	0.38U	0.38U	0.93U	0.38U
4-6	B09WI9	N	3/10/94	0.34U	0.34U	0.34U	0.34U	0.82U	0.34U	0.34U	0.34U	0.82U	0.34U
6-8	B09WJ0	N	3/11/94	0.34U	0.34U	0.34U	0.34U	0.82U	0.34U	0.34U	0.34U	0.82U	0.34U
15-17	B09WJ3	N	3/14/94	0.34U	0.34U	0.34U	0.34U	0.82U	0.34U	0.34U	0.34U	0.82U	0.34U
40-42	B09WJ4	N	3/15/94	0.34U	0.34U	0.34U	0.34U	0.82U	0.34U	0.34U	0.34U	0.82U	0.34U
50-52	B09WJ5	N	3/15/94	0.35U	0.35U	0.35U	0.35U	0.84U	0.35U	0.35U	0.35U	0.84U	0.35U
60-62	B09WJ7	N	3/16/94	0.35U	0.35U	0.35U	0.35U	0.86U	0.35U	0.35U	0.35U	0.86U	0.35U
110-112	B09WJ9	N	3/21/94	0.41U	0.41U	0.41U	0.41U	0.99U	0.41U	0.41U	0.41U	0.99U	0.41U
135-137	B09WK0	N	3/22/94	0.40U	0.40U	0.40U	0.40U	0.96U	0.40U	0.40U	0.40U	0.96U	0.40U
135-137	B09WK1	D	3/22/94	0.39U	0.39U	0.39U	0.39U	0.94U	0.39U	0.39U	0.39U	0.94U	0.39U

Table A-12a. 216-U-10 Pond Semivolatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	1,2,4-Trichloro-benzene (mg/kg)	1,2-Dichloro-benzene (mg/kg)	1,3-Dichloro-benzene (mg/kg)	1,4-Dichloro-benzene (mg/kg)	2,4,5-Trichloro-phenol (mg/kg)	2,4,6-Trichloro-phenol (mg/kg)	2,4-Dichloro-phenol (mg/kg)	2,4-Dimethyl-phenol (mg/kg)	2,4-Dinitro-phenol (mg/kg)	2,4-Dinitro-toluene (mg/kg)
				CAS Number									
				120-82-1	95-50-1	541-73-1	106-46-7	95-95-4	88-06-2	120-83-2	105-67-9	51-28-5	121-14-2
138-140	B09WK2	N	3/22/94	0.39U	0.39U	0.39U	0.39U	0.93U	0.39U	0.39U	0.39U	0.93U	0.39U
138-140	B09WK3	SS	3/22/94	0.39U	0.39U	0.39U	0.39U	0.93U	0.39U	0.39U	0.39U	0.93U	0.39U
-	B09WK4	FB	3/23/94	0.33U	0.33U	0.33U	0.33U	0.79U	0.33U	0.33U	0.33U	0.79U	0.33U
-	B09WK5	EB	3/23/94	0.33U	0.33U	0.33U	0.33U	0.80U	0.33U	0.33U	0.33U	0.80U	0.33U
-	B09WJ2	N	3/10/94	--	--	--	--	--	--	--	--	--	--
-	B09WJ2	TB	3/10/94	0.33U	0.33U	0.33U	0.33U	0.80U	0.33U	0.33U	0.33U	0.80U	0.33U
-	B09WJ6	TB	3/10/94	0.33U	0.33U	0.33U	0.33U	0.80U	0.33U	0.33U	0.33U	0.80U	0.33U
-	B09WK6	TB	3/23/94	0.33U	0.33U	0.33U	0.33U	0.80U	0.33U	0.33U	0.33U	0.80U	0.33U
Test Pit 216-U-10-TP-2													
6.5-6.5	B09316	N	8/21/93	5.6UJ	5.6UJ	5.6UJ	5.6UJ	14U	5.6U	5.6U	5.6U	14U	5.6U
6.5-7.5	B09313	N	8/21/93	0.37UJ	0.37UJ	0.37UJ	0.37UJ	0.89U	0.37U	0.37U	0.37U	0.89U	0.37U
9-10	B09317	N	8/22/93	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.83U	0.34U	0.34U	0.34U	0.83U	0.34U
9-10	B09314	SS	8/22/93	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.86UJ	0.34UJ	0.34UJ	0.34UJ	0.86UJ	0.34UJ
9-10	B09315	D	8/22/93	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.83U	0.34U	0.34U	0.34U	0.83U	0.34U
15-17	B09318	N	8/22/93	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.83U	0.34U	0.34U	0.34U	0.83U	0.34U
25-26	B09319	N	8/22/93	0.33UJ	0.33UJ	0.33UJ	0.33UJ	0.81U	0.33U	0.33U	0.33U	0.81U	0.33U
-	B09320	FB	8/22/93	0.32UJ	0.32UJ	0.32UJ	0.32UJ	0.79U	0.32U	0.32U	0.32U	0.79U	0.32U
-	B09338	EB	8/21/93	0.33UJ	0.33UJ	0.33UJ	0.33UJ	0.79U	0.33U	0.33U	0.33U	0.79U	0.33U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-12b. 216-U-10 Pond Semivolatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	2,6-di-tert-Butyl-p-benzoquinone (mg/kg)	2,6-Dinitro-toluene (mg/kg)	2-chloro-naphthalene (mg/kg)	2-chloro-phenol (mg/kg)	2-Methyl-naphthalene (mg/kg)	2-Methyl-phenol (cresol, o-) (mg/kg)	2-Nitroaniline (mg/kg)	2-Nitrophenol (mg/kg)	3,3'-Dichloro-benzidine (mg/kg)	3-Nitroaniline (mg/kg)
				CAS Number									
				719-22-2	606-20-2	91-58-7	95-57-8	91-57-6	95-48-7	88-74-4	88-75-5	91-94-1	99-09-2
Shoreline Samples													
3-3.3	B0BKN7	N	4/5/94	--	2.9U	2.9U	2.9U	2.9U	2.9U	7.0U	2.9U	2.9U	7.0UJ
3-3.3	B0BKN8	N	4/5/94	--	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.83UJ	0.34UJ	0.34UJ	0.83UJ
3-3.3	B0BKN9	N	3/30/94	--	0.33U	0.33U	0.33U	0.33U	0.33U	0.81U	0.33U	0.33U	0.81UJ
3-3.3	B0BKP4	N	3/30/94	--	0.33U	0.33U	0.33U	0.33U	0.33U	0.81U	0.33U	0.33U	0.81U
3-3.3	B0BKP5	N	3/30/94	--	0.34U	0.34U	0.34U	0.34U	0.34U	0.82U	0.34U	0.34U	0.82UJ
3-3.3	B0BKP6	N	3/31/94	--	0.34U	0.34U	0.34U	0.34U	0.34U	0.81U	0.34U	0.34U	0.81U
3-3.3	B0BNQ0	N	3/31/94	--	0.33U	0.33U	0.33U	0.33U	0.33U	0.81U	0.33U	0.33U	0.81UJ
3-3.3	B0BNQ1	N	3/31/94	--	0.34U	0.34U	0.34U	0.34U	0.34U	0.81U	0.34U	0.34U	0.81UJ
3-3.3	B0BNQ2	N	3/31/94	--	0.33U	0.33U	0.33U	0.33U	0.33U	0.81U	0.33U	0.33U	0.81UJ
3-3.3	B0BNQ3	N	3/31/94	--	0.34U	0.34U	0.34U	0.34U	0.34U	0.81U	0.34U	0.34U	0.81UJ
3-3.3	B0BNQ6	N	3/31/94	--	0.33U	0.33U	0.33U	0.33U	0.33U	0.80U	0.33U	0.33U	0.80UJ
3-3.3	B0BNQ7	N	3/31/94	--	0.34U	0.34U	0.34U	0.34U	0.34U	0.81U	0.34U	0.34U	0.81UJ
3-3.3	B0BNQ8	N	3/31/94	--	0.34U	0.34U	0.34U	0.34U	0.34U	0.82U	0.34U	0.34U	0.82UJ
Borehole 299-W23-231													
2-4	B09WI8	N	3/10/94	--	0.38U	0.38U	0.38U	0.38U	0.38U	0.93U	0.38U	0.38U	0.93U
4-6	B09WI9	N	3/10/94	0.012JN	0.34U	0.34U	0.34U	0.34U	0.34U	0.82U	0.34U	0.34U	0.82U
6-8	B09WJ0	N	3/11/94	0.012JN	0.34U	0.34U	0.34U	0.34U	0.34U	0.82U	0.34U	0.34U	0.82U
15-17	B09WJ3	N	3/14/94	--	0.34U	0.34U	0.34U	0.34U	0.34U	0.82U	0.34U	0.34U	0.82U
40-42	B09WJ4	N	3/15/94	--	0.34U	0.34U	0.34U	0.34U	0.34U	0.82U	0.34U	0.34U	0.82U
50-52	B09WJ5	N	3/15/94	--	0.35U	0.35U	0.35U	0.35U	0.35U	0.84U	0.35U	0.35U	0.84U
60-62	B09WJ7	N	3/16/94	--	0.35U	0.35U	0.35U	0.35U	0.35U	0.86U	0.35U	0.35U	0.86U
110-112	B09WJ9	N	3/21/94	--	0.41U	0.41U	0.41U	0.41U	0.41U	0.99U	0.41U	0.41U	0.99UJ
135-137	B09WK0	N	3/22/94	--	0.40U	0.40U	0.40U	0.40U	0.40U	0.96U	0.40U	0.40U	0.96U

Table A-12b. 216-U-10 Pond Semivolatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	2,6-di-tert-Butyl-p-benzoquinone (mg/kg)	2,6-Dinitro-toluene (mg/kg)	2-chloro-naphthalene (mg/kg)	2-chloro-phenol (mg/kg)	2-Methyl-naphthalene (mg/kg)	2-Methyl-phenol (cresol, o-) (mg/kg)	2-Nitroaniline (mg/kg)	2-Nitrophenol (mg/kg)	3,3'-Dichloro-benzidine (mg/kg)	3-Nitroaniline (mg/kg)
				CAS Number									
				719-22-2	606-20-2	91-58-7	95-57-8	91-57-6	95-48-7	88-74-4	88-75-5	91-94-1	99-09-2
135-137	B09WK1	D	3/22/94	--	0.39U	0.39U	0.39U	0.39U	0.39U	0.94U	0.39U	0.39U	0.94UJ
138-140	B09WK2	N	3/22/94	--	0.39U	0.39U	0.39U	0.39U	0.39U	0.93U	0.39U	0.39U	0.93UJ
138-140	B09WK3	SS	3/22/94	--	0.39U	0.39U	0.39U	0.39U	0.39U	0.93U	0.39U	0.39U	0.93U
-	B09WK4	FB	3/23/94	--	0.33U	0.33U	0.33U	0.33U	0.33U	0.79U	0.33U	0.33U	0.79UJ
-	B09WK5	EB	3/23/94	--	0.33U	0.33U	0.33U	0.33U	0.33U	0.80U	0.33U	0.33U	0.80UJ
-	B09WJ2	N	3/10/94	--	--	--	--	--	--	--	--	--	0.80U
-	B09WJ2	TB	3/10/94	--	0.33U	0.33U	0.33U	0.33U	0.33U	0.80U	0.33U	0.33U	--
-	B09WJ6	TB	3/10/94	--	0.33U	0.33U	0.33U	0.33U	0.33U	0.80U	0.33U	0.33U	0.80U
-	B09WK6	TB	3/23/94	--	0.33U	0.33U	0.33U	0.33U	0.33U	0.80U	0.33U	0.33U	0.80U
Test Pit 216-U-10-TP-2													
6.5-6.5	B09316	N	8/21/93	--	5.6U	5.6U	5.6U	5.6U	5.6U	14UJ	5.6U	5.6UJ	14UJ
6.5-7.5	B09313	N	8/21/93	--	0.37U	0.37U	0.37U	0.37U	0.37U	0.89UJ	0.37U	0.37UJ	0.89UJ
9-10	B09317	N	8/22/93	--	0.34U	0.34U	0.34U	0.34U	0.34U	0.83UJ	0.34U	0.34UJ	0.83UJ
9-10	B09314	SS	8/22/93	--	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.86UJ	0.34UJ	0.34UJ	0.86UJ
9-10	B09315	D	8/22/93	--	0.34U	0.34U	0.34U	0.34U	0.34U	0.83UJ	0.34U	0.34UJ	0.83UJ
15-17	B09318	N	8/22/93	--	0.34U	0.34U	0.34U	0.34U	0.34U	0.83UJ	0.34U	0.34UJ	0.83UJ
25-26	B09319	N	8/22/93	--	0.33U	0.33U	0.33U	0.33U	0.33U	0.81UJ	0.33U	0.33UJ	0.81UJ
-	B09320	FB	8/22/93	--	0.32U	0.32U	0.32U	0.32U	0.32U	0.79UJ	0.32U	0.32UJ	0.79UJ
-	B09338	EB	8/21/93	--	0.33U	0.33U	0.33UJ	0.33U	0.33UJ	0.79UJ	0.33U	0.33UJ	0.79UJ

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-12c. 216-U-10 Pond Semivolatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	4,6-Dinitro-2-methylphenol (mg/kg)	4-Bromo-phenylphenyl ether (mg/kg)	4-chloro3-methylphenol (mg/kg)	4-chloro-aniline (mg/kg)	4-chloro-phenyl-phenylether (mg/kg)	4-Methylphenol (cresol, p-) (mg/kg)	4-Nitro-aniline (mg/kg)	4-Nitro-phenol (mg/kg)	Acena-phthene (mg/kg)	Acena-phthylene (mg/kg)
				CAS Number									
				534-52-1	BPPE4	59-50-7	106-47-8	7005-72-3	106-44-5	100-01-6	100-02-7	83-32-9	208-96-8
Shoreline Samples													
3-3.3	B0BKN7	N	4/5/94	7.0U	2.9U	2.9U	2.9U	2.9U	2.9U	7.0U	7.0U	2.9U	2.9U
3-3.3	B0BKN8	N	4/5/94	0.83UJ	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.83UJ	0.83UJ	0.34UJ	0.34UJ
3-3.3	B0BKN9	N	3/30/94	0.81U	0.33U	0.33U	0.33U	0.33U	0.33U	0.81U	0.81U	0.33U	0.33U
3-3.3	B0BKP4	N	3/30/94	0.81U	0.33U	0.33U	0.33U	0.33U	0.33U	0.81U	0.81U	0.33U	0.33U
3-3.3	B0BKP5	N	3/30/94	0.82U	0.34U	0.34U	0.34U	0.34U	0.34U	0.82U	0.82U	0.34U	0.34U
3-3.3	B0BKP6	N	3/31/94	0.81U	0.34U	0.34U	0.34U	0.34U	0.34U	0.81U	0.81U	0.34U	0.34U
3-3.3	B0BNQ0	N	3/31/94	0.81U	0.33U	0.33U	0.33U	0.33U	0.33U	0.81U	0.81U	0.33U	0.33U
3-3.3	B0BNQ1	N	3/31/94	0.81U	0.34U	0.34U	0.34U	0.34U	0.34U	0.81U	0.81U	0.34U	0.34U
3-3.3	B0BNQ2	N	3/31/94	0.81U	0.33U	0.33U	0.33U	0.33U	0.33U	0.81U	0.81U	0.33U	0.33U
3-3.3	B0BNQ3	N	3/31/94	0.81U	0.34U	0.34U	0.34U	0.34U	0.34U	0.81U	0.81U	0.34U	0.34U
3-3.3	B0BNQ6	N	3/31/94	0.80U	0.33U	0.33U	0.33U	0.33U	0.33U	0.80U	0.80U	0.33U	0.33U
3-3.3	B0BNQ7	N	3/31/94	0.81U	0.34U	0.34U	0.34U	0.34U	0.34U	0.81U	0.81U	0.34U	0.34U
3-3.3	B0BNQ8	N	3/31/94	0.82U	0.34U	0.34U	0.34U	0.34U	0.34U	0.82U	0.82U	0.34U	0.34U
Borehole 299-W23-231													
2-4	B09WI8	N	3/10/94	0.93U	0.38U	0.38U	0.38U	0.38U	0.38U	0.93U	0.93U	0.38U	0.38U
4-6	B09WI9	N	3/10/94	0.82U	0.34U	0.34U	0.34U	0.34U	0.34U	0.82U	0.82U	0.34UJ	0.34U
6-8	B09WJ0	N	3/11/94	0.82U	0.34U	0.34U	0.34U	0.34U	0.34U	0.82U	0.82U	0.34UJ	0.34U
15-17	B09WJ3	N	3/14/94	0.82U	0.34U	0.34UJ	0.34U	0.34U	0.34U	0.82U	0.82U	0.34U	0.34U
40-42	B09WJ4	N	3/15/94	0.82U	0.34U	0.34UJ	0.34U	0.34U	0.34U	0.82U	0.82U	0.34U	0.34U
50-52	B09WJ5	N	3/15/94	0.84U	0.35U	0.35UJ	0.35U	0.35U	0.35U	0.84U	0.84U	0.35U	0.35U
60-62	B09WJ7	N	3/16/94	0.86U	0.35U	0.35UJ	0.35U	0.35U	0.35U	0.86U	0.86U	0.35U	0.35U
110-112	B09WJ9	N	3/21/94	0.99U	0.41U	0.41U	0.41U	0.41U	0.41U	0.99U	0.99U	0.41U	0.41U
135-137	B09WK0	N	3/22/94	0.96U	0.40U	0.40U	0.40U	0.40U	0.40U	0.96U	0.96U	0.40U	0.40U
135-137	B09WK1	D	3/22/94	0.94U	0.39U	0.39U	0.39U	0.39U	0.39U	0.94U	0.94U	0.39U	0.39U
138-140	B09WK2	N	3/22/94	0.93U	0.39U	0.39U	0.39U	0.39U	0.39U	0.93U	0.93U	0.39U	0.39U

Table A-12c. 216-U-10 Pond Semivolatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	4,6-Dinitro-2-methylphenol (mg/kg)	4-Bromo-phenylphenyl ether (mg/kg)	4-chloro3-methylphenol (mg/kg)	4-chloro-aniline (mg/kg)	4-chloro-phenyl-phenylether (mg/kg)	4-Methylphenol (cresol, p-) (mg/kg)	4-Nitro-aniline (mg/kg)	4-Nitro-phenol (mg/kg)	Acena-phthene (mg/kg)	Acena-phthylene (mg/kg)
				CAS Number									
				534-52-1	BPPE4	59-50-7	106-47-8	7005-72-3	106-44-5	100-01-6	100-02-7	83-32-9	208-96-8
138-140	B09WK3	SS	3/22/94	0.93U	0.39U	0.39U	0.39U	0.39U	0.39U	0.93U	0.93U	0.39U	0.39U
-	B09WK4	FB	3/23/94	0.79U	0.33U	0.33U	0.33U	0.33U	0.33U	0.79U	0.79U	0.33U	0.33U
-	B09WK5	EB	3/23/94	0.80U	0.33U	0.33U	0.33U	0.33U	0.33U	0.80U	0.80U	0.33U	0.33U
-	B09WJ2	TB	3/10/94	0.80U	0.33U	0.33U	0.33U	0.33U	0.33U	0.80U	0.80U	0.33U	0.33U
-	B09WJ6	TB	3/10/94	0.80U	0.33U	0.33U	0.33U	0.33U	0.33U	0.80U	0.80U	0.33U	0.33U
-	B09WK6	TB	3/23/94	0.80U	0.33U	0.33U	0.33U	0.33U	0.33U	0.80U	0.80U	0.33U	0.33U
Test Pit 216-U-10-TP-2													
6.5-6.5	B09316	N	8/21/93	14U	5.6U	5.6U	5.6UJ	5.6U	5.6U	14UJ	14U	5.6U	5.6U
6.5-7.5	B09313	N	8/21/93	0.89U	0.37U	0.37U	0.37UJ	0.37U	0.37U	0.89UJ	0.89U	0.37U	0.37U
9-10	B09317	N	8/22/93	0.83U	0.34U	0.34U	0.34UJ	0.34U	0.34U	0.83UJ	0.83U	0.34U	0.34U
9-10	B09314	SS	8/22/93	0.86UJ	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.86UJ	0.86UJ	0.34UJ	0.34UJ
9-10	B09315	D	8/22/93	0.83U	0.34U	0.34U	0.34UJ	0.34U	0.34U	0.83UJ	0.83U	0.34U	0.34U
15-17	B09318	N	8/22/93	0.83U	0.34U	0.34U	0.34UJ	0.34U	0.34U	0.83UJ	0.83U	0.34U	0.34U
25-26	B09319	N	8/22/93	0.81U	0.33U	0.33U	0.33UJ	0.33U	0.33U	0.81UJ	0.81U	0.33U	0.33U
-	B09320	FB	8/22/93	0.79U	0.32U	0.32U	0.32UJ	0.32U	0.32U	0.79UJ	0.79U	0.32U	0.32U
-	B09338	EB	8/21/93	0.79U	0.33U	0.33U	0.33UJ	0.33U	0.33UJ	0.79UJ	0.79U	0.33U	0.33U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control

Table A-12d. 216-U-10 Pond Semivolatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Anthracene (mg/kg)	Benzo(a) anthracene (mg/kg)	Benzo(a) pyrene (mg/kg)	Benzo(b) fluoranthene (mg/kg)	Benzo(ghi) perylene (mg/kg)	Benzo(k) fluoranthene (mg/kg)	Bis(2-chloro1-methylethyl) ether (mg/kg)	Bis(2-chloro-ethoxy) methane (mg/kg)	Bis(2-chloro-ethyl) ether (mg/kg)
				CAS Number								
				120-12-7	56-55-3	50-32-8	205-99-2	191-24-2	207-08-9	108-60-1	111-91-1	111-44-4
Shoreline Samples												
3-3.3	B0BKN7	N	4/5/94	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U	2.9 U
3-3.3	B0BKN8	N	4/5/94	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ
3-3.3	B0BKN9	N	3/30/94	0.33 U	0.33 UJ	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
3-3.3	B0BKP4	N	3/30/94	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
3-3.3	B0BKP5	N	3/30/94	0.34 U	0.34 UJ	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
3-3.3	B0BKP6	N	3/31/94	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
3-3.3	B0BNQ0	N	3/31/94	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
3-3.3	B0BNQ1	N	3/31/94	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
3-3.3	B0BNQ2	N	3/31/94	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
3-3.3	B0BNQ3	N	3/31/94	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
3-3.3	B0BNQ6	N	3/31/94	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
3-3.3	B0BNQ7	N	3/31/94	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
3-3.3	B0BNQ8	N	3/31/94	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Borehole 299-W23-231												
2-4	B09WI8	N	3/10/94	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
4-6	B09WI9	N	3/10/94	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
6-8	B09WJ0	N	3/11/94	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
15-17	B09WJ3	N	3/14/94	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
40-42	B09WJ4	N	3/15/94	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
50-52	B09WJ5	N	3/15/94	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
60-62	B09WJ7	N	3/16/94	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
110-112	B09WJ9	N	3/21/94	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 UJ	0.41 U	0.41 U	0.41 U
135-137	B09WK0	N	3/22/94	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U

Table A-12d. 216-U-10 Pond Semivolatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Anthracene (mg/kg)	Benzo(a) anthracene (mg/kg)	Benzo(a) pyrene (mg/kg)	Benzo(b) fluoranthene (mg/kg)	Benzo(ghi) perylene (mg/kg)	Benzo(k) fluoranthene (mg/kg)	Bis(2-chloro1-methylethyl) ether (mg/kg)	Bis(2-chloro-ethoxy) methane (mg/kg)	Bis(2-chloro-ethyl) ether (mg/kg)
				CAS Number								
				120-12-7	56-55-3	50-32-8	205-99-2	191-24-2	207-08-9	108-60-1	111-91-1	111-44-4
135-137	B09WK1	D	3/22/94	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 UJ	0.39 U	0.39 U	0.39 U
138-140	B09WK2	N	3/22/94	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 UJ	0.39 U	0.39 U	0.39 U
138-140	B09WK3	SS	3/22/94	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
-	B09WK4	FB	3/23/94	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 UJ	0.33 U	0.33 U	0.33 U
-	B09WK5	EB	3/23/94	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 UJ	0.33 U	0.33 U	0.33 U
-	B09WJ2	TB	3/10/94	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
-	B09WJ6	TB	3/10/94	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
-	B09WK6	TB	3/23/94	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Test Pit 216-U-10-TP-2												
6.5-6.5	B09316	N	8/21/93	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U	5.6 U
6.5-7.5	B09313	N	8/21/93	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U
9-10	B09317	N	8/22/93	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
9-10	B09314	SS	8/22/93	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ	0.34 UJ
9-10	B09315	D	8/22/93	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
15-17	B09318	N	8/22/93	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
25-26	B09319	N	8/22/93	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
-	B09320	FB	8/22/93	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
-	B09338	EB	8/21/93	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 UJ	0.33 U	0.33 UJ

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HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control

Table A-12e. 216-U-10 Pond Semivolatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bis(2-ethylhexyl) phthalate (mg/kg)	Butyl benzyl phthalate (mg/kg)	Carbazole (mg/kg)	Chlordane (mg/kg)	Chrysene (mg/kg)	cis-1,3-Dimethylcyclohexane (mg/kg)	Di-n-butyl phthalate (mg/kg)	Di-n-octyl phthalate (mg/kg)	Diacetone alcohol (mg/kg)	Dibenz(a,h) anthracene (mg/kg)
				CAS Number									
				117-81-7	85-68-7	86-74-8	57-74-9	218-01-9	638-04-0	84-74-2	117-84-0	123-42-2	53-70-3
Shoreline Samples													
3-3.3	B0BKN7	N	4/5/94	2.9U	2.9U	2.9U	--	2.9U	--	2.9U	2.9U	0.0032U	2.9U
3-3.3	B0BKN8	N	4/5/94	0.087J	0.34UJ	0.34UJ	--	0.34UJ	0.0020UJN	0.053J	0.34UJ	0.0033U	0.34UJ
3-3.3	B0BKN9	N	3/30/94	0.33U	0.33U	0.33U	--	0.33U	--	0.33U	0.33U	0.0044U	0.33U
3-3.3	B0BKP4	N	3/30/94	0.33U	0.33U	0.33U	--	0.33U	--	0.33U	0.33U	--	0.33U
3-3.3	B0BKP5	N	3/30/94	0.34U	0.34U	0.34U	--	0.34U	--	0.34U	0.34U	0.0044U	0.34U
3-3.3	B0BKP6	N	3/31/94	0.34U	0.34U	0.34U	--	0.34U	--	0.34U	0.34U	10U	0.34U
3-3.3	B0BNQ0	N	3/31/94	0.33U	0.33U	0.33U	--	0.33U	--	0.33U	0.33U	0.0045U	0.33U
3-3.3	B0BNQ1	N	3/31/94	0.34U	0.34U	0.34U	--	0.34U	--	0.34U	0.34U	0.0045U	0.34U
3-3.3	B0BNQ2	N	3/31/94	0.33U	0.33U	0.33U	--	0.33U	--	0.33U	0.33U	0.0045U	0.33U
3-3.3	B0BNQ3	N	3/31/94	0.34U	0.34U	0.34U	--	0.34U	--	0.34U	0.34U	0.0032U	0.34U
3-3.3	B0BNQ6	N	3/31/94	0.33U	0.33U	0.33U	--	0.33U	--	0.33U	0.33U	0.0045U	0.33U
3-3.3	B0BNQ7	N	3/31/94	0.34U	0.34U	0.34U	--	0.34U	--	0.34U	0.34U	0.0045U	0.34U
3-3.3	B0BNQ8	N	3/31/94	0.34U	0.34U	0.34U	--	0.34U	--	0.34U	0.34U	0.0032U	0.34U
Borehole 299-W23-231													
2-4	B09WI8	N	3/10/94	0.042J	0.38U	0.38U	0.0054U	0.38U	--	0.38U	0.38U	--	0.38U
4-6	B09WI9	N	3/10/94	0.34U	0.34U	0.34U	--	0.34U	--	0.34U	0.34U	0.0051=	0.34U
6-8	B09WJ0	N	3/11/94	0.34U	0.34U	0.34U	--	0.34U	--	0.34U	0.34U	0.0051=	0.34U
15-17	B09WJ3	N	3/14/94	0.34U	0.34U	0.34U	--	0.34U	--	0.34U	0.34U	0.0051U	0.34U
40-42	B09WJ4	N	3/15/94	0.34U	0.34U	0.34U	--	0.34U	--	0.34U	0.34U	0.0051U	0.34U
50-52	B09WJ5	N	3/15/94	0.35U	0.35U	0.35U	--	0.35U	--	0.35U	0.35U	0.0050U	0.35U
60-62	B09WJ7	N	3/16/94	0.35U	0.35U	0.35U	--	0.35U	--	0.35U	0.35U	0.0050U	0.35U
110-112	B09WJ9	N	3/21/94	0.41U	0.41U	0.41U	--	0.41U	--	0.41U	0.41U	0.0048=	0.41U
135-137	B09WK0	N	3/22/94	0.11J	0.40U	0.40U	0.0056U	0.40U	--	0.40U	0.40U	--	0.40U
135-137	B09WK1	D	3/22/94	0.39U	0.39U	0.39U	--	0.39U	--	0.39U	0.39U	0.0048=	0.39U
138-140	B09WK2	N	3/22/94	0.39U	0.39U	0.39U	--	0.39U	--	0.39U	0.39U	0.0049=	0.39U

Table A-12e. 216-U-10 Pond Semivolatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bis(2-ethylhexyl) phthalate (mg/kg)	Butyl benzyl phthalate (mg/kg)	Carbazole (mg/kg)	Chlordane (mg/kg)	Chrysene (mg/kg)	cis-1,3-Dimethylcyclohexane (mg/kg)	Di-n-butyl phthalate (mg/kg)	Di-n-octyl phthalate (mg/kg)	Diacetone alcohol (mg/kg)	Dibenz(a,h) anthracene (mg/kg)
				CAS Number									
				117-81-7	85-68-7	86-74-8	57-74-9	218-01-9	638-04-0	84-74-2	117-84-0	123-42-2	53-70-3
138-140	B09WK3	SS	3/22/94	0.39U	0.39U	0.39U	0.020U	0.39U	--	1.7U	0.39U	--	0.39U
-	B09WK4	FB	3/23/94	0.33U	0.33U	0.33U	--	0.33U	--	0.33U	0.33U	0.0048=	0.33U
-	B09WK5	EB	3/23/94	0.33U	0.33U	0.33U	--	0.33U	--	0.33U	0.33U	0.0048=	0.33U
-	B09WJ2	TB	3/10/94	0.33U	0.33U	0.33U	--	0.33U	--	0.33U	0.33U	--	0.33U
-	B09WJ6	TB	3/10/94	0.33U	0.33U	0.33U	--	0.33U	--	0.33U	0.33U	--	0.33U
-	B09WK6	TB	3/23/94	0.33U	0.33U	0.33U	--	0.33U	--	0.33U	0.33U	--	0.33U
Test Pit 216-U-10-TP-2													
6.5-6.5	B09316	N	8/21/93	5.6U	5.6U	5.6U	--	5.6U	--	5.6U	5.6U	--	5.6U
6.5-7.5	B09313	N	8/21/93	0.37U	0.37U	0.37U	--	0.37U	--	0.13UJ	0.37U	--	0.37U
9-10	B09317	N	8/22/93	0.34U	0.34U	0.34U	--	0.34U	--	0.34U	0.34U	--	0.34U
9-10	B09314	SS	8/22/93	0.34UJ	0.34UJ	0.34UJ	--	0.34UJ	--	0.34UJ	0.34UJ	--	0.34UJ
9-10	B09315	D	8/22/93	0.34U	0.34U	0.34U	--	0.34U	--	0.34U	0.34U	--	0.34U
15-17	B09318	N	8/22/93	0.34U	0.34U	0.34U	--	0.34U	--	0.34UJ	0.34U	--	0.34U
25-26	B09319	N	8/22/93	0.33U	0.33U	0.33U	--	0.33U	--	0.33U	0.33U	--	0.33U
-	B09320	FB	8/22/93	0.32U	0.32U	0.32U	--	0.32U	--	0.32U	0.32U	--	0.32U
-	B09338	EB	8/21/93	0.33U	0.33U	0.33U	--	0.33U	--	0.33U	0.33U	--	0.33U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed

Table A-12f. 216-U-10 Pond Semivolatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Dibenzo-furan (mg/kg)	Diethyl-phthalate (mg/kg)	Dimethyl phthalate (mg/kg)	Fluor-anthene (mg/kg)	Fluorene (mg/kg)	Hexachloro-benzene (mg/kg)	Hexachloro-butadiene (mg/kg)	Hexachloro-cyclo-pentadiene (mg/kg)	Hexachloro-ethane (mg/kg)	Indeno(1,2,3-cd)pyrene (mg/kg)
				CAS Number									
				132-64-9	84-66-2	131-11-3	206-44-0	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5
Shoreline Samples													
3-3.3	B0BKN7	N	4/5/94	2.9U	2.9U	2.9U	2.9U	2.9U	2.9U	2.9U	2.9U	2.9U	2.9U
3-3.3	B0BKN8	N	4/5/94	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34UJ
3-3.3	B0BKN9	N	3/30/94	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
3-3.3	B0BKP4	N	3/30/94	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
3-3.3	B0BKP5	N	3/30/94	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U
3-3.3	B0BKP6	N	3/31/94	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U
3-3.3	B0BNQ0	N	3/31/94	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
3-3.3	B0BNQ1	N	3/31/94	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U
3-3.3	B0BNQ2	N	3/31/94	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
3-3.3	B0BNQ3	N	3/31/94	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U
3-3.3	B0BNQ6	N	3/31/94	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
3-3.3	B0BNQ7	N	3/31/94	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U
3-3.3	B0BNQ8	N	3/31/94	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U
Borehole 299-W23-231													
2-4	B09WI8	N	3/10/94	0.38U	0.38U	0.38U	0.38U	0.38U	0.38U	0.38U	0.38U	0.38U	0.38U
4-6	B09WI9	N	3/10/94	0.34U	0.34U	0.34U	0.34U	0.34UJ	0.34U	0.34U	0.34U	0.34U	0.34U
6-8	B09WJ0	N	3/11/94	0.34U	0.34U	0.34U	0.34U	0.34UJ	0.34U	0.34U	0.34U	0.34U	0.34U
15-17	B09WJ3	N	3/14/94	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U
40-42	B09WJ4	N	3/15/94	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U	0.34U
50-52	B09WJ5	N	3/15/94	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U
60-62	B09WJ7	N	3/16/94	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U	0.35U
110-112	B09WJ9	N	3/21/94	0.41U	0.41U	0.41U	0.41U	0.41UJ	0.41U	0.41U	0.41U	0.41U	0.41U
135-137	B09WK0	N	3/22/94	0.40U	0.40U	0.40U	0.40U	0.40U	0.40U	0.40U	0.40U	0.40U	0.40U
135-137	B09WK1	D	3/22/94	0.39U	0.39U	0.39U	0.39U	0.39UJ	0.39U	0.39U	0.39U	0.39U	0.39U

Table A-12f. 216-U-10 Pond Semivolatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Dibenzo-furan (mg/kg)	Diethyl-phthalate (mg/kg)	Dimethyl phthalate (mg/kg)	Fluor-anthene (mg/kg)	Fluorene (mg/kg)	Hexachloro-benzene (mg/kg)	Hexachloro-butadiene (mg/kg)	Hexachloro-cyclo-pentadiene (mg/kg)	Hexachloro-ethane (mg/kg)	Indeno(1,2,3-cd)pyrene (mg/kg)
				CAS Number									
				132-64-9	84-66-2	131-11-3	206-44-0	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	193-39-5
138-140	B09WK2	N	3/22/94	0.39U	0.39U	0.39U	0.39U	0.39UJ	0.39U	0.39U	0.39U	0.39U	0.39U
138-140	B09WK3	SS	3/22/94	0.39U	0.39U	0.39U	0.39U	0.39U	0.39U	0.39U	0.39U	0.39U	0.39U
-	B09WK4	FB	3/23/94	0.33U	0.33U	0.33U	0.33U	0.33UJ	0.33U	0.33U	0.33U	0.33U	0.33U
-	B09WK5	EB	3/23/94	0.33U	0.33U	0.33U	0.33U	0.33UJ	0.33U	0.33U	0.33U	0.33U	0.33U
-	B09WJ2	TB	3/10/94	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
-	B09WJ6	TB	3/10/94	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
-	B09WK6	TB	3/23/94	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U	0.33U
Test Pit 216-U-10-TP-2													
6.5-6.5	B09316	N	8/21/93	5.6U	5.6U	5.6U	5.6U	5.6U	5.6UJ	5.6UJ	5.6UJ	5.6UJ	5.6U
6.5-7.5	B09313	N	8/21/93	0.37U	0.067J	0.37U	0.37U	0.37U	0.37UJ	0.37UJ	0.37UJ	0.37UJ	0.37U
9-10	B09317	N	8/22/93	0.34U	0.34U	0.34U	0.34U	0.34U	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34U
9-10	B09314	SS	8/22/93	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34UJ
9-10	B09315	D	8/22/93	0.34U	0.035J	0.34U	0.34U	0.34U	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34U
15-17	B09318	N	8/22/93	0.34U	0.34U	0.34U	0.34U	0.34U	0.34UJ	0.34UJ	0.34UJ	0.34UJ	0.34U
25-26	B09319	N	8/22/93	0.33U	0.33U	0.33U	0.33U	0.33U	0.33UJ	0.33UJ	0.33UJ	0.33UJ	0.33U
-	B09320	FB	8/22/93	0.32U	0.32U	0.32U	0.32U	0.32U	0.32UJ	0.32UJ	0.32UJ	0.32UJ	0.32U
-	B09338	EB	8/21/93	0.33U	0.33U	0.33U	0.33U	0.33U	0.33UJ	0.33UJ	0.33UJ	0.33UJ	0.33U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
\- Not analyzed

Table A-12g. 216-U-10 Pond Semivolatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Isophorone (mg/kg)	Mesityl oxide (mg/kg)	N-Nitrosodi-n-dipropylamine (mg/kg)	N-Nitrosodi-phenylamine (mg/kg)	Naphthalene (mg/kg)	Nitrobenzene (mg/kg)	Octathiocane (mg/kg)	Pentachloro-phenol (mg/kg)
				CAS Number							
				78-59-1	141-79-7	621-64-7	86-30-6	91-20-3	98-95-3	OCTATHIO	87-86-5
Shoreline Samples											
3-3.3	B0BKN7	N	4/5/94	2.9U	--	2.9UJ	2.9U	2.9U	2.9U	--	7.0U
3-3.3	B0BKN8	N	4/5/94	0.34UJ	0.0024U	0.34UJ	0.34UJ	0.34UJ	0.34UJ	--	0.83UJ
3-3.3	B0BKN9	N	3/30/94	0.33U	--	0.33U	0.33U	0.33U	0.33U	--	0.81U
3-3.3	B0BKP4	N	3/30/94	0.33U	--	0.33UJ	0.33U	0.33U	0.33U	--	0.81U
3-3.3	B0BKP5	N	3/30/94	0.34U	--	0.34U	0.34U	0.34U	0.34U	--	0.82U
3-3.3	B0BKP6	N	3/31/94	0.34U	--	0.34U	0.34U	0.34U	0.34U	--	0.81U
3-3.3	B0BNQ0	N	3/31/94	0.33U	--	0.33U	0.33U	0.33U	0.33U	--	0.81U
3-3.3	B0BNQ1	N	3/31/94	0.34U	--	0.34U	0.34U	0.34U	0.34U	--	0.81U
3-3.3	B0BNQ2	N	3/31/94	0.33U	--	0.33U	0.33U	0.33U	0.33U	--	0.81U
3-3.3	B0BNQ3	N	3/31/94	0.34U	--	0.34U	0.34U	0.34U	0.34U	--	0.81U
3-3.3	B0BNQ6	N	3/31/94	0.33U	--	0.33U	0.33U	0.33U	0.33U	--	0.80U
3-3.3	B0BNQ7	N	3/31/94	0.34U	--	0.34U	0.34U	0.34U	0.34U	--	0.81U
3-3.3	B0BNQ8	N	3/31/94	0.34U	--	0.34U	0.34U	0.34U	0.34U	--	0.82U
Borehole 299-W23-231											
2-4	B09WI8	N	3/10/94	0.38U	--	0.38U	0.38U	0.38U	0.38U	--	0.93UJ
4-6	B09WI9	N	3/10/94	0.34U	--	0.34U	0.34U	0.34U	0.34U	--	0.82U
6-8	B09WJ0	N	3/11/94	0.34U	--	0.34U	0.34U	0.34U	0.34U	--	0.82U
15-17	B09WJ3	N	3/14/94	0.34U	--	0.34U	0.34U	0.34U	0.34U	--	0.82U
40-42	B09WJ4	N	3/15/94	0.34U	--	0.34U	0.34U	0.34U	0.34U	--	0.82U
50-52	B09WJ5	N	3/15/94	0.35U	--	0.35U	0.35U	0.35U	0.35U	--	0.84U
60-62	B09WJ7	N	3/16/94	0.35U	--	0.35U	0.35U	0.35U	0.35U	--	0.86U
110-112	B09WJ9	N	3/21/94	0.41U	--	0.41U	0.41U	0.41U	0.41U	--	0.99U
135-137	B09WK0	N	3/22/94	0.40U	--	0.40UJ	0.40U	0.40U	0.40U	--	0.96U
135-137	B09WK1	D	3/22/94	0.39U	--	0.39U	0.39U	0.39U	0.39U	--	0.94U
138-140	B09WK2	N	3/22/94	0.39U	--	0.39U	0.39U	0.39U	0.39U	--	0.93U

Table A-12g. 216-U-10 Pond Semivolatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Isophorone (mg/kg)	Mesityl oxide (mg/kg)	N-Nitrosodi-n-dipropylamine (mg/kg)	N-Nitrosodi-phenylamine (mg/kg)	Naphthalene (mg/kg)	Nitrobenzene (mg/kg)	Octathiocane (mg/kg)	Pentachloro-phenol (mg/kg)
				CAS Number							
				78-59-1	141-79-7	621-64-7	86-30-6	91-20-3	98-95-3	OCTATHIO	87-86-5
138-140	B09WK3	SS	3/22/94	0.39U	--	0.39U	0.39U	0.39U	0.39U	--	0.93U
-	B09WK4	FB	3/23/94	0.33U	--	0.33U	0.33U	0.33U	0.33U	--	0.79U
-	B09WK5	EB	3/23/94	0.33U	--	0.33U	0.33U	0.33U	0.33U	--	0.80U
-	B09WJ2	TB	3/10/94	0.33U	--	0.33U	0.33U	0.33U	0.33U	--	0.80U
-	B09WJ6	TB	3/10/94	0.33U	--	0.33U	0.33U	0.33U	0.33U	--	0.80U
-	B09WK6	TB	3/23/94	0.33U	--	0.33U	0.33U	0.33U	0.33U	--	0.80U
Test Pit 216-U-10-TP-2											
6.5-6.5	B09316	N	8/21/93	5.6U	--	5.6U	5.6U	5.6U	5.6U	0.020U	14U
6.5-7.5	B09313	N	8/21/93	0.37U	--	0.37U	0.37U	0.37U	0.37U	--	0.89U
9-10	B09317	N	8/22/93	0.34U	--	0.34U	0.34U	0.34U	0.34U	--	0.83U
9-10	B09314	SS	8/22/93	0.34UJ	--	0.34UJ	0.34UJ	0.34UJ	0.34UJ	--	0.86UJ
9-10	B09315	D	8/22/93	0.34U	--	0.34U	0.34U	0.34U	0.34U	--	0.83U
15-17	B09318	N	8/22/93	0.34U	--	0.34U	0.34U	0.34U	0.34U	--	0.83U
25-26	B09319	N	8/22/93	0.33U	--	0.33U	0.33U	0.33U	0.33U	--	0.81U
-	B09320	FB	8/22/93	0.32U	--	0.32U	0.32U	0.32U	0.32U	0.020JN	0.79U
-	B09338	EB	8/21/93	0.33U	--	0.33UJ	0.33U	0.33U	0.33U	--	0.79U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
\- Not analyzed

Table A-12h. 216-U-10 Pond Semivolatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Phenanthrene (mg/kg)	Phenol (mg/kg)	Pyrene (mg/kg)
				CAS Number		
				85-01-8	108-95-2	129-00-0
Shoreline Samples						
3-3.3	B0BKN7	N	4/5/94	2.9U	2.9U	2.9U
3-3.3	B0BKN8	N	4/5/94	0.34UJ	0.34UJ	0.34UJ
3-3.3	B0BKN9	N	3/30/94	0.33U	0.33U	0.33U
3-3.3	B0BKP4	N	3/30/94	0.33U	0.33U	0.33U
3-3.3	B0BKP5	N	3/30/94	0.34U	0.34U	0.34U
3-3.3	B0BKP6	N	3/31/94	0.34U	0.34U	0.34U
3-3.3	B0BNQ0	N	3/31/94	0.33U	0.33U	0.33U
3-3.3	B0BNQ1	N	3/31/94	0.34U	0.34U	0.34U
3-3.3	B0BNQ2	N	3/31/94	0.33U	0.33U	0.33U
3-3.3	B0BNQ3	N	3/31/94	0.34U	0.34U	0.34U
3-3.3	B0BNQ6	N	3/31/94	0.33U	0.33U	0.33U
3-3.3	B0BNQ7	N	3/31/94	0.34U	0.34U	0.34U
3-3.3	B0BNQ8	N	3/31/94	0.34U	0.34U	0.34U
Borehole 299-W23-231						
2-4	B09WI8	N	3/10/94	0.38U	0.38U	0.38UJ
4-6	B09WI9	N	3/10/94	0.34U	0.34U	0.34U
6-8	B09WJ0	N	3/11/94	0.34U	0.34U	0.34U
15-17	B09WJ3	N	3/14/94	0.34U	0.34U	0.34U
40-42	B09WJ4	N	3/15/94	0.34U	0.34U	0.34U
50-52	B09WJ5	N	3/15/94	0.35U	0.35U	0.35U
60-62	B09WJ7	N	3/16/94	0.35U	0.35U	0.35U
110-112	B09WJ9	N	3/21/94	0.41U	0.41U	0.41U
135-137	B09WK0	N	3/22/94	0.40U	0.40U	0.080J
135-137	B09WK1	D	3/22/94	0.39U	0.39U	0.39U
138-140	B09WK2	N	3/22/94	0.39U	0.39U	0.39U

Table A-12h. 216-U-10 Pond Semivolatile Organic Compounds Analytical Data.
(2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Phenanthrene (mg/kg)	Phenol (mg/kg)	Pyrene (mg/kg)
				CAS Number		
				85-01-8	108-95-2	129-00-0
138-140	B09WK3	SS	3/22/94	0.39U	0.39U	0.39U
-	B09WK4	FB	3/23/94	0.33U	0.33U	0.33U
-	B09WK5	EB	3/23/94	0.33U	0.33U	0.33U
-	B09WJ2	N	3/10/94	--	--	--
-	B09WJ2	TB	3/10/94	0.33U	0.33U	0.33U
-	B09WJ6	TB	3/10/94	0.33U	0.33U	0.33U
-	B09WK6	TB	3/23/94	0.33U	0.33U	0.33U
Test Pit 216-U-10-TP-2						
6.5-6.5	B09316	N	8/21/93	5.6U	5.6U	5.6U
6.5-7.5	B09313	N	8/21/93	0.37U	0.37U	0.37U
9-10	B09317	N	8/22/93	0.34U	0.34U	0.34U
9-10	B09314	SS	8/22/93	0.34UJ	0.34UJ	0.34UJ
9-10	B09315	D	8/22/93	0.34U	0.34U	0.34U
15-17	B09318	N	8/22/93	0.34U	0.34U	0.34U
25-26	B09319	N	8/22/93	0.33U	0.33U	0.33U
-	B09320	FB	8/22/93	0.32U	0.32U	0.32U
-	B09338	EB	8/21/93	0.33U	0.33UJ	0.33U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed

Table A-13. 216-U-10 Pond Total Petroleum Hydrocarbon.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Total petroleum hydrocarbons - diesel range (mg/kg)
				CAS Number
				--
Shoreline Samples				
3-3.3	B0BKN7	N	4/5/94	76.0U
3-3.3	B0BKN8	N	4/5/94	10.0U
3-3.3	B0BKN9	N	3/30/94	10.00U
3-3.3	B0BKP4	N	3/30/94	25.00U
3-3.3	B0BKP5	N	3/30/94	10.00U
3-3.3	B0BKP6	N	3/31/94	10.00U
3-3.3	B0BNQ0	N	3/31/94	10.00U
3-3.3	B0BNQ1	N	3/31/94	10.00U
3-3.3	B0BNQ2	N	3/31/94	10.00U
3-3.3	B0BNQ3	N	3/31/94	10.00=
3-3.3	B0BNQ6	N	3/31/94	10.00U
3-3.3	B0BNQ7	N	3/31/94	10.00U
3-3.3	B0BNQ8	N	3/31/94	10.00U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control

Table A-14a. 216-U-10 Pond Volatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	1,1,1-Trichloro ethane (mg/kg)	1,1,2,2-Tetrachloro ethane (mg/kg)	1,1,2-Trichloro ethane (mg/kg)	1,1-Dichloro ethane (mg/kg)	1,1-Dichloro ethene (mg/kg)	1,2-Dichloro ethane (mg/kg)	1,2-Dichloro ethene (Total) (mg/kg)	1,2-Dichloro propane (mg/kg)	2-Butanone (mg/kg)	2-Hexanone (mg/kg)	4-Methyl-2-Pentanone (mg/kg)
				CAS Number										
				71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	107-06-2	540-59-0	78-87-5	78-93-3	591-78-6	108-10-1
Borehole 299-W23-231														
2-4	B09WI8	N	3/10/94	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U
4-6	B09WI9	N	3/10/94	0.010UJ	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
6-8	B09WJ0	N	3/11/94	0.010UJ	0.010UJ	0.010UJ	0.010UJ	0.010UJ	0.010UJ	0.010UJ	0.010UJ	0.010UJ	0.010UJ	0.010UJ
15-17	B09WJ3	N	3/14/94	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
40-42	B09WJ4	N	3/15/94	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U
50-52	B09WJ5	N	3/15/94	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U
60-62	B09WJ7	N	3/16/94	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U
110-112	B09WJ9	N	3/21/94	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U
135-137	B09WK0	N	3/22/94	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U
135-137	B09WK1	D	3/22/94	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U
138-140	B09WK2	N	3/22/94	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U
138-140	B09WK3	SS	3/22/94	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U
-	B09WK4	FB	3/23/94	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.048=	0.010U	0.010U
-	B09WK5	EB	3/23/94	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09WJ1	TB	3/10/94	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09WJ2	TB	3/10/94	0.010UJ	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09WJ6	TB	3/10/94	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09WK6	TB	3/23/94	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09WK7	TB	3/23/94	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Test Pit 216-U-10-TP-2														
6.5-6.5	B09316	N	8/21/93	0.017U	0.017UJ	0.017U	0.017U	0.017U	0.017U	0.017U	0.017U	0.047=	0.017UJ	0.017UJ
6.5-7.5	B09313	N	8/21/93	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U
9-10	B09317	N	8/22/93	0.0010J	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U
9-10	B09314	SS	8/22/93	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U

Table A-14a. 216-U-10 Pond Volatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	1,1,1-Trichloro ethane (mg/kg)	1,1,2,2-Tetrachloro ethane (mg/kg)	1,1,2-Trichloro ethane (mg/kg)	1,1-Dichloro ethane (mg/kg)	1,1-Dichloro ethene (mg/kg)	1,2-Dichloro ethane (mg/kg)	1,2-Dichloro ethene (Total) (mg/kg)	1,2-Dichloro propane (mg/kg)	2-Butanone (mg/kg)	2-Hexanone (mg/kg)	4-Methyl-2-Pentanone (mg/kg)
				CAS Number										
				71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	107-06-2	540-59-0	78-87-5	78-93-3	591-78-6	108-10-1
9-10	B09315	D	8/22/93	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U
15-17	B09318	N	8/22/93	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U
25-26	B09319	N	8/22/93	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09320	FB	8/22/93	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09321	TB	8/22/93	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09322	TB	8/22/93	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09338	EB	8/21/93	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control

Table A-14b. 216-U-10 Pond Volatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Acetone (mg/kg)	Benzene (mg/kg)	Bromodi chloro methane (mg/kg)	Bromoform (mg/kg)	Bromom ethane (mg/kg)	Carbon disulfide (mg/kg)	Carbon tetra chloride (mg/kg)	Chloro benzene (mg/kg)	Chloro ethane (mg/kg)	Chloro form (mg/kg)	Chloro methane (mg/kg)
				CAS Number										
				67-64-1	71-43-2	75-27-4	75-25-2	74-83-9	75-15-0	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3
Borehole 299-W23-231														
2-4	B09WI8	N	3/10/94	0.025 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
4-6	B09WI9	N	3/10/94	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
6-8	B09WJ0	N	3/11/94	0.010 UJ	0.010 UJ	0.010 UJ	0.010 UJ	0.010 UJ	0.010 UJ	0.010 UJ	0.010 U	0.010 UJ	0.010 UJ	0.010 UJ
15-17	B09WJ3	N	3/14/94	0.010 J	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
40-42	B09WJ4	N	3/15/94	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
50-52	B09WJ5	N	3/15/94	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
60-62	B09WJ7	N	3/16/94	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
110-112	B09WJ9	N	3/21/94	0.013 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
135-137	B09WK0	N	3/22/94	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
135-137	B09WK1	D	3/22/94	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
138-140	B09WK2	N	3/22/94	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
138-140	B09WK3	SS	3/22/94	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U	0.012 U
-	B09WK4	FB	3/23/94	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
-	B09WK5	EB	3/23/94	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
-	B09WJ1	TB	3/10/94	0.012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
-	B09WJ2	TB	3/10/94	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
-	B09WJ6	TB	3/10/94	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
-	B09WK6	TB	3/23/94	0.012 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
-	B09WK7	TB	3/23/94	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
Test Pit 216-U-10-TP-2														
6.5-6.5	B09316	N	8/21/93	0.19 B	0.017 U	0.017 U	0.017 U	0.017 U	0.0070 J	0.017 U	0.017 UJ	0.017 U	0.0020 J	0.017 U
6.5-7.5	B09313	N	8/21/93	0.016 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
9-10	B09317	N	8/22/93	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U
9-10	B09314	SS	8/22/93	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
9-10	B09315	D	8/22/93	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U

Table A-14b. 216-U-10 Pond Volatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Acetone (mg/kg)	Benzene (mg/kg)	Bromodi chloro methane (mg/kg)	Bromoform (mg/kg)	Bromom ethane (mg/kg)	Carbon disulfide (mg/kg)	Carbon tetra chloride (mg/kg)	Chloro benzene (mg/kg)	Chloro ethane (mg/kg)	Chloro form (mg/kg)	Chloro methane (mg/kg)
				CAS Number										
				67-64-1	71-43-2	75-27-4	75-25-2	74-83-9	75-15-0	56-23-5	108-90-7	75-00-3	67-66-3	74-87-3
15-17	B09318	N	8/22/93	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.011 U	0.0010 J	0.011 U
25-26	B09319	N	8/22/93	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.0010 J	0.010 U
-	B09320	FB	8/22/93	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
-	B09321	TB	8/22/93	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
-	B09322	TB	8/22/93	0.033 =	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U
-	B09338	EB	8/21/93	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U	0.010 U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control

Table A-14c. 216-U-10 Pond Volatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	cis-1,3-Dichloro propene (mg/kg)	Dibromo chloro methane (mg/kg)	Ethyl benzene (mg/kg)	Methylene chloride (mg/kg)	Styrene (mg/kg)	Tetra chloro ethene (mg/kg)	Toluene (mg/kg)	trans-1,3-Dichloro propene (mg/kg)	Trichloro ethene (mg/kg)	Vinyl chloride (mg/kg)	Xylenes (total) (mg/kg)
				CAS Number										
				10061-01-5	124-48-1	100-41-4	75-09-2	100-42-5	127-18-4	108-88-3	10061-02-6	79-01-6	75-01-4	1330-20-7
Borehole 299-W23-231														
2-4	B09WI8	N	3/10/94	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.0020J	0.012U	0.012U	0.012U	0.012U
4-6	B09WI9	N	3/10/94	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
6-8	B09WJ0	N	3/11/94	0.010UJ	0.010UJ	0.010U	0.010UJ	0.010U	0.010UJ	0.010U	0.010UJ	0.010UJ	0.010UJ	0.010U
15-17	B09WJ3	N	3/14/94	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
40-42	B09WJ4	N	3/15/94	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U
50-52	B09WJ5	N	3/15/94	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U
60-62	B09WJ7	N	3/16/94	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U
110-112	B09WJ9	N	3/21/94	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U
135-137	B09WK0	N	3/22/94	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U
135-137	B09WK1	D	3/22/94	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U
138-140	B09WK2	N	3/22/94	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U
138-140	B09WK3	SS	3/22/94	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U	0.012U
-	B09WK4	FB	3/23/94	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09WK5	EB	3/23/94	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09WJ1	TB	3/10/94	0.010U	0.010U	0.010U	0.0010J	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09WJ2	TB	3/10/94	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09WJ6	TB	3/10/94	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09WK6	TB	3/23/94	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09WK7	TB	3/23/94	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
Test Pit 216-U-10-TP-2														
6.5-6.5	B09316	N	8/21/93	0.017U	0.017U	0.017UJ	0.017U	0.017UJ	0.017UJ	0.017J	0.017U	0.017U	0.017U	0.017UJ
6.5-7.5	B09313	N	8/21/93	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U
9-10	B09317	N	8/22/93	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U
9-10	B09314	SS	8/22/93	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U

Table A-14c. 216-U-10 Pond Volatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	cis-1,3-Dichloro propene (mg/kg)	Dibromo chloro methane (mg/kg)	Ethyl benzene (mg/kg)	Methylene chloride (mg/kg)	Styrene (mg/kg)	Tetra chloro ethene (mg/kg)	Toluene (mg/kg)	trans-1,3-Dichloro propene (mg/kg)	Trichloro ethene (mg/kg)	Vinyl chloride (mg/kg)	Xylenes (total) (mg/kg)
				CAS Number										
				10061-01-5	124-48-1	100-41-4	75-09-2	100-42-5	127-18-4	108-88-3	10061-02-6	79-01-6	75-01-4	1330-20-7
9-10	B09315	D	8/22/93	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U
15-17	B09318	N	8/22/93	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U	0.011U
25-26	B09319	N	8/22/93	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09320	FB	8/22/93	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09321	TB	8/22/93	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09322	TB	8/22/93	0.010U	0.010U	0.010U	0.022U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U
-	B09338	EB	8/21/93	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U	0.010U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
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QA/QC = Quality Assurance/Quality Control

Table A-15. 216-U-14 Ditch General Chemistry Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bromide (mg/kg)	Chloride (mg/kg)	Fluoride (mg/kg)	Kerosene (mg/kg)	Nitrate (mg/kg)	Nitrite (mg/kg)	Phosphate (mg/kg)	Sulfate (mg/kg)	Sulfide (mg/kg)
				CAS Number								
				24959-67-9	16887-00-6	16984-48-8	8008-20-6	14797-55-8	--	--	14265-44-2	--
299-W18-250												
25-25	B08CB5	N	3/30/93	0.50 U	0.20 U	0.30 =	--	0.20 U	0.20 U	--	0.40 U	2.0 =
50-50	B08CB7	N	3/30/93	0.50 U	0.50 =	0.10 U	--	0.20 U	0.20 U	--	0.40 U	2.0 =
299-W18-251												
25-25	B08CC8	N	4/1/93	0.50 U	0.70 =	0.30 =	10 U	0.50 =	0.20 U	0.40 U	4.0 =	--
46-46	B08CD0	N	4/1/93	0.50 U	0.20 U	0.10 U	10 U	0.20 U	0.20 U	0.40 U	1.0 =	--
97.5-97.5	B08CC0	N	4/6/93	0.50 U	0.20 U	0.30 =	10 U	0.20 U	0.20 U	0.40 U	2.0 =	10 U
149-149	B08CD3	N	4/13/93	0.50 U	1.0 =	0.60 =	--	0.40 =	0.20 U	0.40 U	7.0 =	10 U
299-W23-16												
25-25	B08CF5	N	4/20/93	0.50 U	0.60 =	0.30 =	--	7.0 =	0.20 U	0.40 U	9.0 =	10 U
50-50	B08CF6	N	4/21/93	0.50 U	0.50 =	0.10 U	--	0.50 =	0.20 U	0.40 U	1.0 =	10 U
299-W23-17												
25-25	B08CD7	N	4/12/93	0.50 U	41 =	0.30 =	--	2.1 =	0.20 U	0.40 U	34 =	10 U
45-45	B08CF3	N	4/13/93	0.50 U	0.40 =	0.10 U	--	0.20 U	0.20 U	0.40 U	0.50 U	10 U
45-45	B08CF4	N	4/13/93	0.50 U	0.20 U	0.10 U	--	0.20 U	0.20 U	0.40 U	1.0 =	--
299-W18-33												
26-26	B08CL1	N	5/12/93	--	--	--	--	--	--	--	--	20 L
50-50	B08CL4	N	5/13/93	--	--	--	--	--	--	--	--	20 L
ETP-1												
11-13	B07CD3	N	6/26/93	--	--	--	--	--	--	--	--	20 L
15-17	B07CD5	N	6/26/93	--	--	--	--	--	--	--	--	10 L
ETP-2												
12-13	B07CC9	D	6/26/93	--	--	--	--	--	--	--	--	30 L
12-13	B07CC6	N	6/26/93	--	--	--	--	--	--	--	--	20 L
15-17	B07CD1	N	6/26/93	--	--	--	--	--	--	--	--	20 L

Table A-15. 216-U-14 Ditch General Chemistry Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bromide (mg/kg)	Chloride (mg/kg)	Fluoride (mg/kg)	Kerosene (mg/kg)	Nitrate (mg/kg)	Nitrite (mg/kg)	Phosphate (mg/kg)	Sulfate (mg/kg)	Sulfide (mg/kg)
				CAS Number								
				24959-67-9	16887-00-6	16984-48-8	8008-20-6	14797-55-8	--	--	14265-44-2	--
ETP-3												
11-13	B07CC1	N	6/26/93	--	--	--	--	--	--	--	--	20 L
18-19	B07CB9	N	6/26/93	--	--	--	--	--	--	--	--	40 LB

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\- Not analyzed
= Detected

Table A-16a. 216-U-14 Ditch Inorganics (Metals) Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Antimony (mg/kg)	Arsenic (mg/kg)	Barium (mg/kg)	Beryllium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Cobalt (mg/kg)	Copper (mg/kg)	Cyanide (mg/kg)	Lead (mg/kg)
				CAS Number									
				7440-36-0	7440-38-2	7440-39-3	7440-41-7	7440-43-9	7440-47-3	7440-48-4	7440-50-8	57-12-5	743-99-2
299-W18-250													
25-25	B08CB5	N	30-Mar-93	--	--	72 =	0.60 =	--	17 =	13 =	15 =	--	--
50-50	B08CB7	N	30-Mar-93	--	--	110 =	0.80 =	--	12 =	12 =	15 =	--	--
299-W18-251													
25-25	B08CC8	N	1-Apr-93	0.20 U	--	75 =	0.60 =	0.010 U	5.0 =	10 =	15 =	--	--
46-46	B08CD0	N	1-Apr-93	0.20 U	--	87 =	0.60 =	0.010 U	9.0 =	10 =	12 =	--	--
97.5-97.5	B08CC0	N	6-Apr-93	0.20 U	3.7 =	100 =	0.40 =	0.010 U	17 =	8.0 =	13 =	0.020 U	5.7 =
149-149	B08CD3	N	13-Apr-93	0.20 U	2.4 =	95 =	0.0030 U	1.00E-04 U	14 =	8.0 =	10 =	0.020 U	2.5 =
299-W23-16													
25-25	B08CF5	N	20-Apr-93	0.20 U	1.4 =	92 =	0.0030 U	0.010 U	9.0 =	10 =	10 =	0.020 U	4.0 =
50-50	B08CF6	N	21-Apr-93	0.20 U	1.3 =	95 =	0.0030 U	0.010 U	9.0 =	9.0 =	9.0 =	0.020 U	3.4 =
299-W23-17													
25-25	B08CD7	N	12-Apr-93	0.20 U	3.1 =	100 =	0.0030 U	0.010 U	9.0 =	10 =	12 =	0.020 U	5.0 =
45-45	B08CF3	N	13-Apr-93	0.20 U	2.7 =	89 =	0.0030 U	0.010 U	11 =	8.0 =	10 =	0.020 U	3.7 =
45-45	B08CF4	N	13-Apr-93	0.20 U	2.1 =	94 =	0.0030 U	0.010 U	11 =	9.0 =	9.0 =	0.020 U	3.6 =
ETP-1													
11-13	B07CD3	N	26-Jun-93	6.1 L	0.82 =	63 =	0.29 L	--	7.1 =	6.8 =	14 =	--	3.4 =
15-17	B07CD5	N	26-Jun-93	--	1.0 =	73 =	0.21 L	--	5.8 =	5.1 =	14 =	--	3.6 =
ETP-2													
12-13	B07CC9	D	26-Jun-93	--	1.5 =	85 =	0.23 L	--	5.8 =	6.6 =	15 =	--	2.1 =
12-13	B07CC6	N	26-Jun-93	6.2 L	1.4 =	86 =	0.23 L	--	7.1 =	7.1 =	15 =	--	2.3 =
15-17	B07CD1	N	26-Jun-93	7.0 L	2.2 =	73 =	0.25 L	--	8.8 =	7.3 =	14 =	--	2.4 =
ETP-3													
11-13	B07CC1	N	26-Jun-93	--	1.4 =	65 =	0.22 L	--	6.9 =	6.1 =	14 =	--	2.9 =
18-19	B07CB9	N	26-Jun-93	6.5 L	1.1 =	67 =	0.31 =	--	6.7 =	6.9 =	15 =	--	2.6 =

Table A-16b. 216-U-14 Ditch Inorganics (Metals) Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Manganese (mg/kg)	Nickel (mg/kg)	Potassium (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Sodium (mg/kg)	Tin (mg/kg)	Thallium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
				CAS Number									
				7439-96-5	744-00-2	7440-09-7	778-24-9	744-02-2	7440-23-5	7440-31-5	744-02-8	744-06-2	744-06-6
299-W18-250													
25-25	B08CB5	N	30-Mar-93	290 =	69 =	700 =	--	--	480 =	--	--	64 =	45 =
50-50	B08CB7	N	30-Mar-93	470 =	14 =	--	--	--	320 =	--	--	66 =	50 =
299-W18-251													
25-25	B08CC8	N	1-Apr-93	310 =	5.0 =	620 =	--	0.020 U	390 =	0.10 U	--	59 =	46 =
46-46	B08CD0	N	1-Apr-93	400 =	0.80 =	--	--	0.020 U	230 =	0.10 U	--	64 =	44 =
97.5-97.5	B08CC0	N	6-Apr-93	270 =	15 =	--	0.010 U	0.020 U	240 =	--	0.0050 U	35 =	45 =
149-149	B08CD3	N	13-Apr-93	280 =	13 =	--	0.010 U	0.020 U	560 =	--	0.0050 U	55 =	40 =
299-W23-16													
25-25	B08CF5	N	20-Apr-93	420 =	10 =	--	0.010 U	0.020 U	390 =	--	0.0050 U	69 =	54 =
50-50	B08CF6	N	21-Apr-93	360 =	11 =	--	0.010 U	0.020 U	290 =	--	0.0050 U	67 =	46 =
299-W23-17													
25-25	B08CD7	N	12-Apr-93	390 =	12 =	--	0.010 U	0.020 U	400 =	--	0.0050 U	63 =	52 =
45-45	B08CF3	N	13-Apr-93	400 =	13 =	--	0.010 U	0.020 U	250=	--	0.0050 U	60 =	42 =
45-45	B08CF4	N	13-Apr-93	390 =	14 =	--	0.010 U	0.020 U	230 =	--	0.0050 U	58 =	44 =
ETP-1													
11-13	B07CD3	N	26-Jun-93	220 =	6.2 =	730 =	--	3.1 =	290 =	--	--	68 =	44 =
15-17	B07CD5	N	26-Jun-93	220 =	5.0 =	570 =	--	2.7 =	290 =	--	--	46 =	40 =
ETP-2													
12-13	B07CC9	D	26-Jun-93	280 =	6.2 =	450 =	--	2.9 =	290 =	--	--	62 =	42 =
12-13	B07CC6	N	26-Jun-93	290 =	6.0 =	600 =	--	3.3 =	320 =	--	--	66 =	42 =
15-17	B07CD1	N	26-Jun-93	330 =	11 =	690 =	--	3.3 =	260 =	--	0.12 L	68 =	44 =
ETP-3													
11-13	B07CC1	N	26-Jun-93	240 =	4.4 =	560 =	--	2.9 =	290 =	--	--	60 =	40 =
18-19	B07CB9	N	26-Jun-93	310 =	6.1 =	630 =	--	3.2 =	320 =	--	--	67 =	46 =

Table A-16b. 216-U-14 Ditch Inorganics (Metals) Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Manganese (mg/kg)	Nickel (mg/kg)	Potassium (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)	Sodium (mg/kg)	Tin (mg/kg)	Thallium (mg/kg)	Vanadium (mg/kg)	Zinc (mg/kg)
				CAS Number									
				7439-96-5	744-00-2	7440-09-7	778-24-9	744-02-2	7440-23-5	7440-31-5	744-02-8	744-06-2	744-06-6

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- Not analyzed
= Detected

Table A-17a. 216-U-14 Ditch PCBs and Pesticides Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Aramite (mg/kg)	Aroclor-1016 (mg/kg)	Aroclor-1221 (mg/kg)	Aroclor-1232 (mg/kg)	Aroclor-1242 (mg/kg)	Aroclor-1248 (mg/kg)	Aroclor-1254 (mg/kg)
				CAS Number						
				140-57-8	12674-11-2	11104-28-2	11141-16-5	53469-21-9	12672-29-6	11097-69-1
299-W18-251										
25-25	B08CC8	N	4/1/93	0.010 U	--	--	--	--	--	--
46-46	B08CD0	N	4/1/93	0.010 U	--	--	--	--	--	--
97.5-97.5	B08CC0	N	4/6/93	0.010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
149-149	B08CD3	N	4/13/93	--	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
299-W23-17										
25-25	B08CD7	N	4/12/93	--	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
45-45	B08CF3	N	4/13/93	--	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
45-45	B08CF4	N	4/13/93	--	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
ETP-1										
15-17	B07CD5	N	6/26/93	--	--	--	--	--	--	0.0070 L

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ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-17b. 216-U-14 Ditch PCBs and Pesticides Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Aroclor-1260 (mg/kg)	Endo-sulfan sulfate (mg/kg)	Hepta-chlor epoxide (mg/kg)	Isodrin (mg/kg)	Kepone (mg/kg)	Metho-xychlor (mg/kg)	Toxaphene (mg/kg)
				CAS Number						
				11096-82-5	1031-07-8	1024-57-3	465-73-6	143-50-0	72-43-5	8001-35-2
299-W18-251										
25-25	B08CC8	N	4/1/93	--	--	--	0.010 U	0.010 U	--	--
46-46	B08CD0	N	4/1/93	--	--	--	0.010 U	0.010 U	--	--
97.5-97.5	B08CC0	N	4/6/93	0.0010 U	0.0010 U	0.0010 U	0.010 U	0.010 U	0.0020 U	0.0020 U
149-149	B08CD3	N	4/13/93	0.0010 U	0.0010 U	0.0010 U	--	--	0.0020 U	0.0020 U
299-W23-17										
25-25	B08CD7	N	4/12/93	0.0010 U	0.0010 U	0.0010 U	--	--	0.0020 U	0.0020 U
45-45	B08CF3	N	4/13/93	0.0010 U	0.0010 U	0.0010 U	--	--	0.0020 U	0.0020 U
45-45	B08CF4	N	4/13/93	0.0010 U	0.0010 U	0.0010 U	--	--	0.0020 U	0.0020 U
ETP-1										
15-17	B07CD5	N	6/26/93	--	--	--	--	--	--	--

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-18a. 216-U-14 Ditch Radionuclides Analytical Data. (4 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Actinium-226 (pCi/g)	Actinium-226, Decayed (pCi/g)	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Bismuth-212 (pCi/g)	Bismuth-212, Decayed (pCi/g)
				CAS Number							
				--	--	14596-10-2	14596-10-2	14234-35-6	14234-35-6	14913-49-6	14913-49-6
299-W18-250											
5-5	299-W18-250 (5 ft)	N	3/1/93	--	--	0.90 U	0.90 U	--	--	--	--
11-11	299-W18-250 (11 ft)	N	3/1/93	--	--	0.80 U	0.80 U	--	--	--	--
14-14	299-W18-250 (14 ft)	N	3/1/93	--	--	0.90 U	0.90 U	--	--	--	--
16-16	299-W18-250 (16 ft)	N	3/1/93	--	--	0.90 U	0.90 U	--	--	--	--
18-18	299-W18-250 (18 ft)	N	3/1/93	--	--	1.0 U	1.0 U	--	--	--	--
20-20	299-W18-250 (20 ft)	N	3/1/93	--	--	1.0 U	1.0 U	--	--	--	--
25-25	299-W18-250 (25 ft)	N	3/1/93	--	--	1.0 U	1.0 U	--	--	--	--
50-50	299-W18-250 (50 ft)	N	3/1/93	--	--	0.90 U	0.90 U	--	--	--	--
65-65	299-W18-250 (65 ft)	N	3/1/93	0.60 =	0 U	0.80 U	0.80 U	--	--	--	--
299-W18-251											
5-5	299-W18-251 (5 ft)	N	3/1/93	0.78 =	0 U	0.90 U	0.90 U	--	--	0.62 =	0 U
11-11	299-W18-251 (11 ft)	N	3/1/93	0.70 =	0 U	0.80 U	0.80 U	--	--	--	--
14-14	299-W18-251 (14 ft)	N	3/1/93	0.46 =	0 U	0.90 U	0.90 U	--	--	0.41 =	0 U
16-16	299-W18-251 (16 ft)	N	3/1/93	0.60 U	0.60 U	1.0 U	1.0 U	--	--	--	--
18-18	299-W18-251 (18 ft)	N	3/1/93	0.30 =	0 U	0.90 U	0.90 U	--	--	--	--
20-20	299-W18-251 (20 ft)	N	3/1/93	0.54 =	0 U	1.0 U	1.0 U	--	--	--	--
25-25	299-W18-251 (25 ft)	N	3/1/93	0.56 =	0 U	0.90 U	0.90 U	--	--	--	--
25-25	299-W18-251 (25 ft) FD	D	3/1/93	0.54 =	0 U	1.0 U	1.0 U	--	--	--	--
46-46	299-W18-251 (46 ft)	N	3/1/93	0.75 =	0 U	1.0 U	1.0 U	--	--	--	--
98-98	299-W18-251 (98 ft)	N	3/1/93	0.94 =	0 U	1.0 U	1.0 U	--	--	--	--
128-128	299-W18-251 (128 ft)	N	3/1/93	--	--	1.0 U	1.0 U	--	--	--	--
149-149	299-W18-251 (149 ft)	N	3/1/93	--	--	0.80 U	0.80 U	--	--	--	--

Table A-18a. 216-U-14 Ditch Radionuclides Analytical Data. (4 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Actinium-226 (pCi/g)	Actinium-226, Decayed (pCi/g)	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Bismuth-212 (pCi/g)	Bismuth-212, Decayed (pCi/g)
				CAS Number							
				--	--	14596-10-2	14596-10-2	14234-35-6	14234-35-6	14913-49-6	14913-49-6
299-W18-33											
5-5	299-W18-33 (5 ft)	N	5/1/93	0.85 =	0 U	1.0 U	1.0 U	--	--	--	--
10-10	299-W18-33 (10 ft)	N	5/1/93	0.47 =	0 U	0.90 U	0.90 U	--	--	0.38 =	0 U
20-20	299-W18-33 (20 ft)	N	5/1/93	0.51 =	0 U	0.80 U	0.80 U	--	--	--	--
26-26	299-W18-33 (26 ft)	N	5/1/93	0.49 =	0 U	0.90 U	0.90 U	--	--	0.44 =	0 U
26-26	299-W18-33 (26 ft) FD	D	5/1/93	0.69 =	0 U	1.0 U	1.0 U	--	--	0.39 =	0 U
30-30	299-W18-33 (30 ft)	N	5/1/93	0.66 =	0 U	0.90 U	0.90 U	--	--	--	--
40-40	299-W18-33 (40 ft)	N	5/1/93	0.46 =	0 U	0.90 U	0.90 U	--	--	0.46 =	0 U
50-50	299-W18-33 (50 ft)	N	5/1/93	0.50 =	0 U	0.90 U	0.90 U	--	--	0.39 =	0 U
50-50	299-W18-33 (50 ft) FD	D	5/1/93	0.70 =	0 U	0.90 U	0.90 U	--	--	--	--
135-135	299-W18-33 (135 ft)	N	5/1/93	1.3 =	0 U	1.0 U	1.0 U	--	--	--	--
145-145	299-W18-33 (145 ft)	N	5/1/93	0.62 =	0 U	0.90 U	0.90 U	--	--	0.78 =	0 U
299-W23-16											
25-25	299-W23-16 (25 ft)	N	4/1/93	0.70 U	0.70 U	1.0 U	1.0 U	--	--	0.60 =	0 U
50-50	299-W23-16 (50 ft)	N	4/1/93	0.76 =	0 U	1.0 U	1.0 U	--	--	0.46 =	0 U
135-135	299-W23-16 (135 ft)	N	4/1/93	1.0 =	0 U	0.90 U	0.90 U	--	--	0.63 =	0 U
299-W23-17											
5-5	299-23-17 (5 ft)	N	4/1/93	0.84 =	0.0016 =	0.90 U	0.90 U	--	--	--	--
10-10	299-23-17 (10 ft)	N	4/1/93	0.64 =	0.0013 =	0.90 U	0.90 U	--	--	0.65 =	0.0013 =
20-20	299-23-17 (20 ft)	N	4/1/93	0.46 =	9.00E-04 =	0.80 U	0.80 U	--	--	--	--
25-25	299-23-17 (25 ft)	N	4/1/93	--	--	1.0 U	1.0 U	--	--	--	--
25-25	299-23-17 (25 ft) FD	D	4/1/93	--	--	1.0 U	1.0 U	--	--	--	--
30-30	299-23-17 (30 ft)	N	4/1/93	0.38 =	7.40E-04 =	0.80 U	0.80 U	--	--	--	--
40-40	299-23-17 (40 ft)	N	4/1/93	0.46 =	9.00E-04 =	1.0 U	1.0 U	--	--	0.48 =	9.40E-04 =

Table A-18a. 216-U-14 Ditch Radionuclides Analytical Data. (4 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Actinium-226 (pCi/g)	Actinium-226, Decayed (pCi/g)	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Bismuth-212 (pCi/g)	Bismuth-212, Decayed (pCi/g)
				CAS Number							
				--	--	14596-10-2	14596-10-2	14234-35-6	14234-35-6	14913-49-6	14913-49-6
45-45	299-23-17 (45 ft)	N	4/1/93	0.78 =	0.0015 =	1.0 U	1.0 U	--	--	0.80 =	0.0016 =
135-135	299-23-17 (135 ft)	N	4/1/93	1.0 =	0.0020 =	1.0 U	1.0 U	--	--	--	--
149-149	299-23-17 (149 ft)	N	4/1/93	0.56 =	0.0011 =	0.90 U	0.90 U	--	--	--	--
200-200	299-23-17 (200 ft)	N	4/1/93	0.49 =	9.60E-04 =	0.80 U	0.80 U	--	--	0.36 =	7.00E-04 =
ETP-1											
9-9.5	B07CC7	N	6/26/93	--	--	1.0 =	0.99 =	1.0 =	0.10 =	--	--
ETP-2											
12-13	B07CC8	D	6/26/93	--	--	0 U	0 U	--	--	--	--
ETP-3											
Test Pit #1											
9-9.5	Test Pit #1 (West) (9.0-9.5 ft)	N	6/1/92	--	--	1.6 =	1.6 =	--	--	--	--
9.5-10	Test Pit #1 (West) (9.5-10.0 f)	N	6/1/92	--	--	0.90 =	0.89 =	--	--	--	--
12-13	Test Pit #1 (West) (12.0-13 ft)	N	6/1/92	--	--	0.75 =	0.74 =	--	--	--	--
14-15	Test Pit #1 (West) (14.0-15 ft)	N	6/1/92	--	--	0.85 =	0.84 =	--	--	--	--
16-17	Test Pit #1 (West) (16.0-17 ft)	N	6/1/92	--	--	0.73 =	0.72 =	--	--	--	--
18-19	Test Pit #1 (West) (18.0-19 ft)	N	6/1/92	--	--	0.75 =	0.74 =	--	--	--	--
Test Pit #2											
9-9.5	Test Pit #2 (Center) (9.0-9.5)	N	6/1/92	--	--	0.60 =	0.59 =	--	--	--	--

Table A-18a. 216-U-14 Ditch Radionuclides Analytical Data. (4 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Actinium-226 (pCi/g)	Actinium-226, Decayed (pCi/g)	Americium-241 (pCi/g)	Americium-241, Decayed (pCi/g)	Antimony-125 (pCi/g)	Antimony-125, Decayed (pCi/g)	Bismuth-212 (pCi/g)	Bismuth-212, Decayed (pCi/g)
				CAS Number							
				--	--	14596-10-2	14596-10-2	14234-35-6	14234-35-6	14913-49-6	14913-49-6
9.5-10	Test Pit #2 (Center) (9.5-10.0)	N	6/1/92	--	--	0.70 =	0.69 =	--	--	--	--
12-13	Test Pit #2 (Center) (12.0-13)	N	6/1/92	--	--	0.50 =	0.49 =	--	--	--	--
14-15	Test Pit #2 (Center) (14.0-15)	N	6/1/92	--	--	0.50 =	0.49 =	--	--	--	--
16-17	Test Pit #2 (Center) (16.0-17)	N	6/1/92	--	--	0.30 =	0.30 =	--	--	--	--
18-19	Test Pit #2 (Center) (18.0-19)	N	6/1/92	--	--	0.50 =	0.49 =	--	--	--	--
Test Pit #3											
9-9.5	Test Pit #3 (East) (9.0-9.5 ft)	N	6/1/92	--	--	0.50 =	0.49 =	--	--	--	--
9.5-10	Test Pit #3 (East) (9.5-10.0 ft)	N	6/1/92	--	--	0.50 =	0.49 =	--	--	--	--
12-13	Test Pit #3 (East) (12.0-13 ft)	N	6/1/92	--	--	0.50 =	0.49 =	--	--	--	--
14-15	Test Pit #3 (East) (14.0-15 ft)	N	6/1/92	--	--	0.50 =	0.49 =	--	--	--	--
16-17	Test Pit #3 (East) (16.0-17 ft)	N	6/1/92	--	--	0.50 =	0.49 =	--	--	--	--
18-19	Test Pit #3 (East) (18.0-19 ft)	N	6/1/92	--	--	1.6 =	1.6 =	--	--	--	--

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
\- Not analyzed
= Detected

Table A-18b. 216-U-14 Ditch Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bismuth-214 (pCi/g)	Bismuth-214, Decayed (pCi/g)	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Lead-212 (pCi/g)	Lead-212, Decayed (pCi/g)
				CAS Number							
				14733-03-0	14733-03-0	10045-97-3	10045-97-3	10198-40-0	10198-40-0	35-80-0	35-80-0
299-W18-250											
5-5	299-W18-250 (5 ft)	N	3/1/93	--	--	0.16 U	0.16 U	--	--	--	--
11-11	299-W18-250 (11 ft)	N	3/1/93	--	--	0.15 U	0.15 U	--	--	--	--
14-14	299-W18-250 (14 ft)	N	3/1/93	--	--	0.12 U	0.12 U	--	--	--	--
16-16	299-W18-250 (16 ft)	N	3/1/93	--	--	0.14 U	0.14 U	--	--	--	--
18-18	299-W18-250 (18 ft)	N	3/1/93	--	--	0.14 U	0.14 U	--	--	--	--
20-20	299-W18-250 (20 ft)	N	3/1/93	--	--	0.14 U	0.14 U	--	--	--	--
25-25	299-W18-250 (25 ft)	N	3/1/93	--	--	0.11 U	0.11 U	--	--	--	--
50-50	299-W18-250 (50 ft)	N	3/1/93	--	--	0.15 U	0.15 U	--	--	--	--
65-65	299-W18-250 (65 ft)	N	3/1/93	0.50 =	0 U	0.038 U	0.038 U	--	--	5.0 =	0 U
299-W18-251											
5-5	299-W18-251 (5 ft)	N	3/1/93	0.70 =	0 U	0.040 U	0.040 U	--	--	0.70 =	0 U
11-11	299-W18-251 (11 ft)	N	3/1/93	0.58 =	0 U	0.040 U	0.040 U	--	--	0.70 =	0 U
14-14	299-W18-251 (14 ft)	N	3/1/93	0.40 =	0 U	0.040 U	0.040 U	--	--	0.70 =	0 U
16-16	299-W18-251 (16 ft)	N	3/1/93	0.39 =	0 U	0.040 U	0.040 U	--	--	0.50 =	0 U
18-18	299-W18-251 (18 ft)	N	3/1/93	0.38 =	0 U	0.040 U	0.040 U	--	--	0.50 =	0 U
20-20	299-W18-251 (20 ft)	N	3/1/93	0.45 =	0 U	0.040 U	0.040 U	--	--	0.50 =	0 U
25-25	299-W18-251 (25 ft)	N	3/1/93	0.45 =	0 U	0.030 U	0.030 U	--	--	0.50 =	0 U
25-25	299-W18-251 (25 ft) FD	D	3/1/93	0.46 =	0 U	0.040 U	0.040 U	--	--	0.50 =	0 U
46-46	299-W18-251 (46 ft)	N	3/1/93	0.38 =	0 U	0.050 U	0.050 U	--	--	0.60 =	0 U
98-98	299-W18-251 (98 ft)	N	3/1/93	0.58 =	0 U	0.050 U	0.050 U	--	--	0.70 =	0 U
128-128	299-W18-251 (128 ft)	N	3/1/93	--	--	0.090 U	0.090 U	--	--	--	--
149-149	299-W18-251 (149 ft)	N	3/1/93	--	--	0.090 U	0.090 U	--	--	--	--

Table A-18b. 216-U-14 Ditch Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bismuth-214 (pCi/g)	Bismuth-214, Decayed (pCi/g)	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Lead-212 (pCi/g)	Lead-212, Decayed (pCi/g)
				CAS Number							
				14733-03-0	14733-03-0	10045-97-3	10045-97-3	10198-40-0	10198-40-0	35-80-0	35-80-0
299-W18-33											
5-5	299-W18-33 (5 ft)	N	5/1/93	0.58 =	0 U	0.050 U	0.050 U	--	--	--	--
10-10	299-W18-33 (10 ft)	N	5/1/93	--	--	0.040 U	0.040 U	--	--	--	--
20-20	299-W18-33 (20 ft)	N	5/1/93	0.48 =	0 U	0.040 U	0.040 U	--	--	--	--
26-26	299-W18-33 (26 ft)	N	5/1/93	--	--	0.030 U	0.030 U	--	--	0.47 =	0 U
26-26	299-W18-33 (26 ft) FD	D	5/1/93	--	--	0.040 U	0.040 U	--	--	0.54 =	0 U
30-30	299-W18-33 (30 ft)	N	5/1/93	0.39 =	0 U	0.040 U	0.040 U	--	--	0.50 =	0 U
40-40	299-W18-33 (40 ft)	N	5/1/93	--	--	0.17 U	0.17 U	--	--	0.50 =	0 U
50-50	299-W18-33 (50 ft)	N	5/1/93	0.40 =	0 U	0.030 U	0.030 U	--	--	0.50 =	0 U
50-50	299-W18-33 (50 ft) FD	D	5/1/93	0.57 =	0 U	0.18 =	0.18 =	--	--	0.60 =	0 U
135-135	299-W18-33 (135 ft)	N	5/1/93	1.1 =	0 U	0.070 U	0.070 U	--	--	--	--
145-145	299-W18-33 (145 ft)	N	5/1/93	--	--	0.050 U	0.050 U	--	--	0.80 =	0 U
299-W19-21											
30-35	299-W19-21 (30-35 ft)	N	5/1/86	--	--	0.20 =	0.14 =	-1.50E-01 U	-1.50E-01 U	--	--
55-60	299-W19-21 (55-60 ft)	N	5/1/86	--	--	0.60 =	0.42 =	-1.30E-01 U	-1.30E-01 U	--	--
60-65	299-W19-21 (60-65 ft)	N	5/1/86	--	--	0.50 =	0.35 =	0.24 =	0.030 =	--	--
65-70	299-W19-21 (65-70 ft)	N	5/1/86	--	--	1.1 =	0.76 =	0.50 =	0.060 =	--	--
85-90	299-W19-21 (85-90 ft)	N	5/1/86	--	--	-1.00E-01 U	0.10 U	-3.40E-01 U	-6.00E-01 U	--	--
130-135	299-W19-21 (130-135 ft)	N	5/1/86	--	--	-2.00E-01 U	0.20 U	-2.80E-01 U	-1.00E+00 U	--	--
299-W19-27											
140-140	299-W19-27 (140 ft)	N	4/1/87	--	--	-6.00E-01 U	0.60 U	0.020 =	0 U	--	--
145-145	299-W19-27 (145 ft)	N	4/1/87	--	--	-8.00E-01 U	0.80 U	-2.10E-01 U	-2.10E-01 U	--	--
150-150	299-W19-27 (150 ft)	N	4/1/87	--	--	-8.00E-01 U	0.80 U	-2.00E-01 U	-2.00E-01 U	--	--

Table A-18b. 216-U-14 Ditch Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bismuth-214 (pCi/g)	Bismuth-214, Decayed (pCi/g)	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Lead-212 (pCi/g)	Lead-212, Decayed (pCi/g)
				CAS Number							
				14733-03-0	14733-03-0	10045-97-3	10045-97-3	10198-40-0	10198-40-0	35-80-0	35-80-0
299-W19-91											
5-5	299-W19-91 (5 ft)	N	4/1/87	--	--	1.7 =	1.2 =	0.50 =	0.070 =	--	--
10-10	299-W19-91 (10 ft)	N	4/1/87	--	--	0.60 =	0.43 =	0.18 =	0.030 =	--	--
15-15	299-W19-91 (15 ft)	N	4/1/87	--	--	0.30 =	0.21 =	0.090 =	0.010 =	--	--
20-20	299-W19-91 (20 ft)	N	4/1/87	--	--	0.90 =	0.64 =	-7.00E-02 U	-7.00E-02 U	--	--
25-25	299-W19-91 (25 ft)	N	4/1/87	--	--	0.50 =	0.35 =	-8.00E-02 U	-8.00E-02 U	--	--
30-30	299-W19-91 (30 ft)	N	4/1/87	--	--	0.30 =	0.21 =	0.080 =	0.010 =	--	--
35-35	299-W19-91 (35 ft)	N	4/1/87	--	--	-1.00E-01 U	0.10 U	-1.70E-01 U	-1.70E-01 U	--	--
40-40	299-W19-91 (40 ft)	N	4/1/87	--	--	0.40 =	0.28 =	-3.60E-01 U	-3.60E-01 U	--	--
45-45	299-W19-91 (45 ft)	N	4/1/87	--	--	-2.00E-01 U	0.20 U	-2.80E-01 U	-2.80E-01 U	--	--
50-50	299-W19-91 (50 ft)	N	4/1/87	--	--	-5.00E-01 U	0.50 U	-1.90E-01 U	-1.90E-01 U	--	--
55-55	299-W19-91 (55 ft)	N	4/1/87	--	--	0.30 =	0.21 =	-1.60E-01 U	-1.60E-01 U	--	--
60-60	299-W19-91 (60 ft)	N	4/1/87	--	--	0.30 =	0.21 =	-1.80E-01 U	-1.80E-01 U	--	--
65-65	299-W19-91 (65 ft)	N	4/1/87	--	--	0.80 =	0.57 =	-1.60E-01 U	-1.60E-01 U	--	--
70-70	299-W19-91 (70 ft)	N	4/1/87	--	--	0.50 =	0.35 =	-3.20E-01 U	-3.20E-01 U	--	--
75-75	299-W19-91 (75 ft)	N	4/1/87	--	--	0.50 =	0.35 =	-2.00E-02 U	-2.00E-02 U	--	--
80-80	299-W19-91 (80 ft)	N	4/1/87	--	--	0.80 =	0.57 =	-1.10E-01 U	-1.10E-01 U	--	--
85-85	299-W19-91 (85 ft)	N	4/1/87	--	--	1.2 =	0.85 =	0.19 =	0.030 =	--	--
90-90	299-W19-91 (90 ft)	N	4/1/87	--	--	0.10 =	0.070 =	-2.50E-01 U	-2.50E-01 U	--	--
95-95	299-W19-91 (95 ft)	N	4/1/87	--	--	0 U	0 U	-2.60E-01 U	-2.60E-01 U	--	--
100-100	299-W19-91 (100 ft)	N	4/1/87	--	--	0 U	0 U	-3.90E-01 U	-3.90E-01 U	--	--
105-105	299-W19-91 (105 ft)	N	4/1/87	--	--	-5.00E-01 U	0.50 U	0 U	0 U	--	--
110-110	299-W19-91 (110 ft)	N	4/1/87	--	--	-3.00E-01 U	0.30 U	0.060 =	0.010 =	--	--
115-115	299-W19-91 (115 ft)	N	4/1/87	--	--	0 U	0 U	-3.80E-01 U	-3.80E-01 U	--	--

Table A-18b. 216-U-14 Ditch Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bismuth-214 (pCi/g)	Bismuth-214, Decayed (pCi/g)	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Lead-212 (pCi/g)	Lead-212, Decayed (pCi/g)
				CAS Number							
				14733-03-0	14733-03-0	10045-97-3	10045-97-3	10198-40-0	10198-40-0	35-80-0	35-80-0
120-120	299-W19-91 (120 ft)	N	4/1/87	--	--	-3.00E-01 U	0.30 U	-1.70E-01 U	-1.70E-01 U	--	--
125-125	299-W19-91 (125 ft)	N	4/1/87	--	--	-1.00E-01 U	0.10 U	-6.00E-02 U	-6.00E-02 U	--	--
130-130	299-W19-91 (130 ft)	N	4/1/87	--	--	0 U	0 U	-7.00E-02 U	-7.00E-02 U	--	--
135-135	299-W19-91 (135 ft)	N	4/1/87	--	--	-1.00E-01 U	0.10 U	-1.40E-01 U	-1.40E-01 U	--	--
140-140	299-W19-91 (140 ft)	N	4/1/87	--	--	0.20 =	0.14 =	-3.50E-01 U	-3.50E-01 U	--	--
145-145	299-W19-91 (145 ft)	N	4/1/87	--	--	0.20 =	0.14 =	0.050 =	0.010 =	--	--
150-150	299-W19-91 (150 ft)	N	4/1/87	--	--	0 U	0 U	-8.00E-02 U	-8.00E-02 U	--	--
299-W19-92											
5-5	299-W19-92 (5 ft)	N	4/1/87	--	--	1.6 =	1.1 =	0.31 =	0.040 =	--	--
11-11	299-W19-92 (11 ft)	N	4/1/87	--	--	0.50 =	0.35 =	0.090 =	0.010 =	--	--
15-15	299-W19-92 (15 ft)	N	4/1/87	--	--	0.40 =	0.28 =	-3.30E-01 U	0.33 U	--	--
20-20	299-W19-92 (20 ft)	N	4/1/87	--	--	0.60 =	0.43 =	-2.80E-01 U	0.028 U	--	--
25-25	299-W19-92 (25 ft)	N	4/1/87	--	--	0.50 =	0.35 =	0.18 =	0.030 =	--	--
30-30	299-W19-92 (30 ft)	N	4/1/87	--	--	0.30 =	0.21 =	-1.70E-01 U	0.17 U	--	--
35-35	299-W19-92 (35 ft)	N	4/1/87	--	--	-1.00E-01 U	-7.00E-02 U	-2.40E-01 U	0.24 U	--	--
37-37	299-W19-92 (37 ft)	N	4/1/87	--	--	0.40 =	0.28 =	-3.60E-01 U	0.36 U	--	--
40-40	299-W19-92 (40 ft)	N	4/1/87	--	--	-3.00E-01 U	-2.10E-01 U	-2.20E-01 U	0.22 U	--	--
45-45	299-W19-92 (45 ft)	N	4/1/87	--	--	0 U	0 U	0 U	0 U	--	--
50-50	299-W19-92 (50 ft)	N	4/1/87	--	--	0.50 =	0.35 =	-2.40E-01 U	0.24 U	--	--
55-55	299-W19-92 (55 ft)	N	4/1/87	--	--	-1.00E-01 U	-7.00E-02 U	-3.00E-02 U	0.030 U	--	--
60-60	299-W19-92 (60 ft)	N	4/1/87	--	--	0.80 =	0.57 =	0.60 =	0.080 =	--	--
65-65	299-W19-92 (65 ft)	N	4/1/87	--	--	0.80 =	0.57 =	0.23 =	0.030 =	--	--
70-70	299-W19-92 (70 ft)	N	4/1/87	--	--	1.1 =	0.78 =	0.40 =	0.060 =	--	--
75-75	299-W19-92 (75 ft)	N	4/1/87	--	--	0.10 =	0.070 =	-2.40E-01 U	0.24 U	--	--

Table A-18b. 216-U-14 Ditch Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bismuth-214 (pCi/g)	Bismuth-214, Decayed (pCi/g)	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Lead-212 (pCi/g)	Lead-212, Decayed (pCi/g)
				CAS Number							
				14733-03-0	14733-03-0	10045-97-3	10045-97-3	10198-40-0	10198-40-0	35-80-0	35-80-0
80-80	299-W19-92 (80 ft)	N	4/1/87	--	--	0.80 =	0.57 =	-1.60E-01 U	0.16 U	--	--
85-85	299-W19-92 (85 ft)	N	4/1/87	--	--	0.30 =	0.21 =	-2.50E-01 U	0.25 U	--	--
90-90	299-W19-92 (90 ft)	N	4/1/87	--	--	1.3 =	0.92 =	0.21 =	0.030 =	--	--
95-95	299-W19-92 (95 ft)	N	4/1/87	--	--	0.20 =	0.14 =	-2.50E-01 U	0.25 U	--	--
100-100	299-W19-92 (100 ft)	N	4/1/87	--	--	-5.00E-01 U	0.50 U	-3.60E-01 U	0.36 U	--	--
105-105	299-W19-92 (105 ft)	N	4/1/87	--	--	0.30 =	0.21 =	-1.10E-01 U	0.11 U	--	--
110-110	299-W19-92 (110 ft)	N	4/1/87	--	--	-3.00E-01 U	0.30 U	-3.00E-01 U	0.30 U	--	--
115-115	299-W19-92 (115 ft)	N	4/1/87	--	--	-3.00E-01 U	0.30 U	-3.40E-01 U	0.34 U	--	--
120-120	299-W19-92 (120 ft)	N	4/1/87	--	--	-1.00E-01 U	0.10 U	-3.00E-02 U	0.030 U	--	--
125-125	299-W19-92 (125 ft)	N	4/1/87	--	--	-1.00E-01 U	0.10 U	-4.40E-01 U	0.44 U	--	--
130-130	299-W19-92 (130 ft)	N	4/1/87	--	--	0.20 =	0.14 =	-7.00E-02 U	0.070 U	--	--
135-135	299-W19-92 (135 ft)	N	4/1/87	--	--	-1.00E-01 U	0.10 U	-3.70E-01 U	0.37 U	--	--
140-140	299-W19-92 (140 ft)	N	4/1/87	--	--	-3.00E-01 U	0.30 U	-1.20E-01 U	0.12 U	--	--
145-145	299-W19-92 (145 ft)	N	4/1/87	--	--	0.20 =	0.14 =	-3.00E-02 U	0.030 U	--	--
150-150	299-W19-92 (150 ft)	N	4/1/87	--	--	0.30 =	0.21 =	-5.00E-02 U	0.050 U	--	--
299-W19-93											
5-5	299-W19-93 (5 ft)	N	4/1/87	--	--	1.7 =	1.2 =	-6.00E-02 U	0.060 U	--	--
10-10	299-W19-93 (10 ft)	N	4/1/87	--	--	0.10 =	0.070 =	0.15 =	0.020 =	--	--
15-15	299-W19-93 (15 ft)	N	4/1/87	--	--	-6.00E-01 U	0.60 U	-1.50E-01 U	0.15 U	--	--
20-20	299-W19-93 (20 ft)	N	4/1/87	--	--	0.60 =	0.43 =	-2.40E-01 U	0.24 U	--	--
25-25	299-W19-93 (25 ft)	N	4/1/87	--	--	0.90 =	0.64 =	0.25 =	0.030 =	--	--
30-30	299-W19-93 (30 ft)	N	4/1/87	--	--	0.20 =	0.14 =	0.030 =	0 U	--	--
35-35	299-W19-93 (35 ft)	N	4/1/87	--	--	-1.00E-01 U	0.10 U	-1.10E-01 U	0.11 U	--	--
40-40	299-W19-93 (40 ft)	N	4/1/87	--	--	0.50 =	0.35 =	0.15 =	0.020 =	--	--

Table A-18b. 216-U-14 Ditch Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bismuth-214 (pCi/g)	Bismuth-214, Decayed (pCi/g)	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Lead-212 (pCi/g)	Lead-212, Decayed (pCi/g)
				CAS Number							
				14733-03-0	14733-03-0	10045-97-3	10045-97-3	10198-40-0	10198-40-0	35-80-0	35-80-0
45-45	299-W19-93 (45 ft)	N	4/1/87	--	--	-5.00E-01 U	0.50 U	-1.20E-01 U	0.12 U	--	--
50-50	299-W19-93 (50 ft)	N	4/1/87	--	--	-2.00E-01 U	0.20 U	-1.50E-01 U	0.15 U	--	--
55-55	299-W19-93 (55 ft)	N	4/1/87	--	--	0 U	0 U	-1.70E-01 U	0.17 U	--	--
60-60	299-W19-93 (60 ft)	N	4/1/87	--	--	0.90 =	0.64 =	-5.00E-02 U	0.050 U	--	--
65-65	299-W19-93 (65 ft)	N	4/1/87	--	--	0 U	0 U	-1.00E-01 U	0.10 U	--	--
70-70	299-W19-93 (70 ft)	N	4/1/87	--	--	0.10 =	0.070 =	-1.20E-01 U	0.12 U	--	--
75-75	299-W19-93 (75 ft)	N	4/1/87	--	--	0.10 =	0.070 =	-6.00E-02 U	0.060 U	--	--
80-80	299-W19-93 (80 ft)	N	4/1/87	--	--	-1.96E+00 U	2.0 U	0.020 =	0 U	--	--
85-85	299-W19-93 (85 ft)	N	4/1/87	--	--	-7.00E-01 U	0.70 U	0.19 =	0.030 =	--	--
90-90	299-W19-93 (90 ft)	N	4/1/87	--	--	-9.00E-01 U	0.90 U	0 U	0 U	--	--
95-95	299-W19-93 (95 ft)	N	4/1/87	--	--	-1.00E+00 U	1.0 U	-1.90E-01 U	0.19 U	--	--
100-100	299-W19-93 (100 ft)	N	4/1/87	--	--	-8.00E-01 U	0.80 U	-4.00E-02 U	0.040 U	--	--
105-105	299-W19-93 (105 ft)	N	4/1/87	--	--	-9.00E-01 U	0.90 U	-2.20E-01 U	0.22 U	--	--
110-110	299-W19-93 (110 ft)	N	4/1/87	--	--	-1.10E+00 U	1.1 U	-2.50E-01 U	0.25 U	--	--
115-115	299-W19-93 (115 ft)	N	4/1/87	--	--	-7.00E-01 U	0.70 U	-2.10E-01 U	0.21 U	--	--
120-120	299-W19-93 (120 ft)	N	4/1/87	--	--	-1.00E+00 U	1.0 U	-2.30E-01 U	0.23 U	--	--
299-W23-16											
-	299-W23-16 (EB)	N	4/1/93	--	--	0.030 U	0.030 U	--	--	--	--
5-5	299-W23-16 (5 ft)	N	4/1/93	0.48 =	0 U	0.040 U	0.040 U	--	--	--	--
10-10	299-W23-16 (10 ft)	N	4/1/93	--	--	0.040 U	0.040 U	--	--	--	--
20-20	299-W23-16 (20 ft)	N	4/1/93	0.49 =	0 U	0.030 U	0.030 U	--	--	--	--
25-25	299-W23-16 (25 ft)	N	4/1/93	--	--	0.050 U	0.050 U	--	--	--	--
30-30	299-W23-16 (30 ft)	N	4/1/93	0.59 =	0 U	0.040 U	0.040 U	--	--	--	--
40-40	299-W23-16 (40 ft)	N	4/1/93	0.37 =	0 U	0.040 U	0.040 U	--	--	--	--

Table A-18b. 216-U-14 Ditch Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bismuth-214 (pCi/g)	Bismuth-214, Decayed (pCi/g)	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Lead-212 (pCi/g)	Lead-212, Decayed (pCi/g)
				CAS Number							
				14733-03-0	14733-03-0	10045-97-3	10045-97-3	10198-40-0	10198-40-0	35-80-0	35-80-0
50-50	299-W23-16 (50 ft)	N	4/1/93	--	--	0.040 U	0.040 U	--	--	--	--
135-135	299-W23-16 (135 ft)	N	4/1/93	--	--	0.050 U	0.050 U	--	--	--	--
154-154	299-W23-16 (154 ft)	N	4/1/93	0.92 =	0 U	0.040 U	0.040 U	--	--	0.90 =	0 U
200-200	299-W23-16 (200 ft)	N	4/1/93	0.48 =	0 U	0.030 U	0.030 U	--	--	0.40 =	0 U
299-W23-17											
5-5	299-23-17 (5 ft)	N	4/1/93	0.81 =	0.0016 =	0.050 U	0.050 U	--	--	0.90 =	0.0018 =
10-10	299-23-17 (10 ft)	N	4/1/93	--	--	0.040 U	0.040 U	--	--	--	--
20-20	299-23-17 (20 ft)	N	4/1/93	0.48 =	9.40E-04 =	0.040 U	0.040 U	--	--	--	--
25-25	299-23-17 (25 ft)	N	4/1/93	--	--	0.11 U	0.11 U	--	--	--	--
25-25	299-23-17 (25 ft) FD	D	4/1/93	--	--	0.14 U	0.14 U	--	--	--	--
30-30	299-23-17 (30 ft)	N	4/1/93	0.41 =	8.00E-04 =	0.030 U	0.030 U	--	--	--	--
40-40	299-23-17 (40 ft)	N	4/1/93	--	--	0.050 U	0.050 U	--	--	--	--
45-45	299-23-17 (45 ft)	N	4/1/93	--	--	0.050 U	0.050 U	--	--	--	--
135-135	299-23-17 (135 ft)	N	4/1/93	0.68 =	0.0013 =	0.040 U	0.040 U	--	--	0.90 =	0.0018 =
149-149	299-23-17 (149 ft)	N	4/1/93	0.60 =	0.0012 =	0.040 U	0.040 U	--	--	--	--
200-200	299-23-17 (200 ft)	N	4/1/93	--	--	0.030 U	0.030 U	--	--	0.40 =	7.80E-04 =
ETP-1											
9-9.5	B07CC7	N	6/26/93	--	--	2,740 =	2,228 =	1.0 =	0.31 =	--	--
Test Pit #1											
9-9.5	Test Pit #1 (West) (9.0-9.5 ft)	N	6/1/92	--	--	420 =	334 =	2.3 =	0.62 =	--	--
9.5-10	Test Pit #1 (West) (9.5-10.0 ft)	N	6/1/92	--	--	149 =	118 =	0 U	0 U	--	--
12-13	Test Pit #1 (West) (12.0-13 ft)	N	6/1/92	--	--	1.5 =	1.2 =	0 U	0 U	--	--

Table A-18b. 216-U-14 Ditch Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bismuth-214 (pCi/g)	Bismuth-214, Decayed (pCi/g)	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Lead-212 (pCi/g)	Lead-212, Decayed (pCi/g)
				CAS Number							
				14733-03-0	14733-03-0	10045-97-3	10045-97-3	10198-40-0	10198-40-0	35-80-0	35-80-0
14-15	Test Pit #1 (West) (14.0-15 ft)	N	6/1/92	--	--	0.45 =	0.36 =	0 U	0 U	--	--
16-17	Test Pit #1 (West) (16.0-17 ft)	N	6/1/92	--	--	0.53 =	0.42 =	0 U	0 U	--	--
18-19	Test Pit #1 (West) (18.0-19 ft)	N	6/1/92	--	--	0.12 =	0.095 =	0 U	0 U	--	--
Test Pit #2											
9-9.5	Test Pit #2 (Center) (9.0-9.5 ft)	N	6/1/92	--	--	1,600 =	1,272 =	0 U	0 U	--	--
9.5-10	Test Pit #2 (Center) (9.5-10.0 ft)	N	6/1/92	--	--	36 =	29 =	0 U	0 U	--	--
12-13	Test Pit #2 (Center) (12.0-13 ft)	N	6/1/92	--	--	0.50 =	0.40 =	0 U	0 U	--	--
14-15	Test Pit #2 (Center) (14.0-15 ft)	N	6/1/92	--	--	0.80 =	0.64 =	0 U	0 U	--	--
16-17	Test Pit #2 (Center) (16.0-17 ft)	N	6/1/92	--	--	0.40 =	0.32 =	0 U	0 U	--	--
18-19	Test Pit #2 (Center) (18.0-19 ft)	N	6/1/92	--	--	10 =	8.3 =	0 U	0 U	--	--
Test Pit #3											
9-9.5	Test Pit #3 (East) (9.0-9.5 ft)	N	6/1/92	--	--	110 =	87 =	0 U	0 U	--	--
9.5-10	Test Pit #3 (East) (9.5-10.0 f)	N	6/1/92	--	--	51 =	41 =	0 U	0 U	--	--
12-13	Test Pit #3 (East) (12.0-13 ft)	N	6/1/92	--	--	0.50 =	0.40 =	0 U	0 U	--	--
14-15	Test Pit #3 (East) (14.0-15 ft)	N	6/1/92	--	--	1.4 =	1.1 =	0 U	0 U	--	--

Table A-18b. 216-U-14 Ditch Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bismuth-214 (pCi/g)	Bismuth-214, Decayed (pCi/g)	Cesium-137 (pCi/g)	Cesium-137, Decayed (pCi/g)	Cobalt-60 (pCi/g)	Cobalt-60, Decayed (pCi/g)	Lead-212 (pCi/g)	Lead-212, Decayed (pCi/g)
				CAS Number							
				14733-03-0	14733-03-0	10045-97-3	10045-97-3	10198-40-0	10198-40-0	35-80-0	35-80-0
16-17	Test Pit #3 (East) (16.0-17 ft)	N	6/1/92	--	--	0.40 =	0.32 =	0 U	0 U	--	--
18-19	Test Pit #3 (East) (18.0-19 ft)	N	6/1/92	--	--	2.1 =	1.7 =	0 U	0 U	--	--

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-18c. 216-U-14 Ditch Radionuclides Analytical Data. (5 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Lead-214 (pCi/g)	Lead-214, Decayed (pCi/g)	Plutonium-238 (pCi/g)	Plutonium-238, Decayed (pCi/g)	Plutonium-238/239 (pCi/g)	Plutonium-238/239, Decayed (pCi/g)	Plutonium-239 (pCi/g)	Plutonium-239, Decayed (pCi/g)
				CAS Number							
				15067-28-4	15067-28-4	13981-16-3	13981-16-3	--	--	15117-48-3	15117-48-3
299-W18-250											
5-5	299-W18-250 (5 ft)	N	3/1/93	--	--	--	--	--	--	6.1 U	6.1 U
11-11	299-W18-250 (11 ft)	N	3/1/93	--	--	--	--	--	--	0.40 U	0.40 U
14-14	299-W18-250 (14 ft)	N	3/1/93	--	--	--	--	--	--	0.50 U	0.50 U
16-16	299-W18-250 (16 ft)	N	3/1/93	--	--	--	--	--	--	0.40 U	0.40 U
18-18	299-W18-250 (18 ft)	N	3/1/93	--	--	--	--	--	--	0.40 U	0.40 U
20-20	299-W18-250 (20 ft)	N	3/1/93	--	--	--	--	--	--	0.50 U	0.50 U
25-25	299-W18-250 (25 ft)	N	3/1/93	--	--	--	--	--	--	0.50 U	0.50 U
50-50	299-W18-250 (50 ft)	N	3/1/93	--	--	--	--	--	--	0.40 U	0.40 U
65-65	299-W18-250 (65 ft)	N	3/1/93	5.7 =	0 U	--	--	--	--	0.40 U	0.40 U
299-W18-251											
5-5	299-W18-251 (5 ft)	N	3/1/93	0.70 =	0 U	--	--	--	--	0.80 U	0.80 U
11-11	299-W18-251 (11 ft)	N	3/1/93	0.60 =	0 U	--	--	--	--	0.40 U	0.40 U
14-14	299-W18-251 (14 ft)	N	3/1/93	0.40 =	0 U	--	--	--	--	0.50 U	0.50 U
16-16	299-W18-251 (16 ft)	N	3/1/93	0.40 =	0 U	--	--	--	--	0.50 U	0.50 U
18-18	299-W18-251 (18 ft)	N	3/1/93	0.40 =	0 U	--	--	--	--	0.40 U	0.40 U
20-20	299-W18-251 (20 ft)	N	3/1/93	0.40 =	0 U	--	--	--	--	0.50 U	0.50 U
25-25	299-W18-251 (25 ft)	N	3/1/93	0.50 =	0 U	--	--	--	--	0.50 U	0.50 U
25-25	299-W18-251 (25 ft) FD	D	3/1/93	0.50 =	0 U	--	--	--	--	0.50 U	0.50 U
46-46	299-W18-251 (46 ft)	N	3/1/93	0.70 =	0 U	--	--	--	--	0.50 U	0.50 U
98-98	299-W18-251 (98 ft)	N	3/1/93	0.80 =	0 U	--	--	--	--	0.50 U	0.50 U
128-128	299-W18-251 (128 ft)	N	3/1/93	--	--	--	--	--	--	0.50 U	0.50 U
149-149	299-W18-251 (149 ft)	N	3/1/93	--	--	--	--	--	--	0.40 U	0.40 U

Table A-18c. 216-U-14 Ditch Radionuclides Analytical Data. (5 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Lead-214 (pCi/g)	Lead-214, Decayed (pCi/g)	Plutonium-238 (pCi/g)	Plutonium-238, Decayed (pCi/g)	Plutonium-238/239 (pCi/g)	Plutonium-238/239, Decayed (pCi/g)	Plutonium-239 (pCi/g)	Plutonium-239, Decayed (pCi/g)
				CAS Number							
				15067-28-4	15067-28-4	13981-16-3	13981-16-3	--	--	15117-48-3	15117-48-3
299-W18-33											
5-5	299-W18-33 (5 ft)	N	5/1/93	0.60 =	0 U	--	--	--	--	0.50 U	0.50 U
10-10	299-W18-33 (10 ft)	N	5/1/93	0.50 =	0 U	--	--	--	--	0.40 U	0.40 U
20-20	299-W18-33 (20 ft)	N	5/1/93	0.50 =	0 U	--	--	--	--	0.40 U	0.40 U
26-26	299-W18-33 (26 ft)	N	5/1/93	--	--	--	--	--	--	0.50 U	0.50 U
26-26	299-W18-33 (26 ft) FD	D	5/1/93	--	--	--	--	--	--	0.50 U	0.50 U
30-30	299-W18-33 (30 ft)	N	5/1/93	0.40 =	0 U	--	--	--	--	0.40 U	0.40 U
40-40	299-W18-33 (40 ft)	N	5/1/93	0.50 =	0 U	--	--	--	--	0.80 U	0.80 U
50-50	299-W18-33 (50 ft)	N	5/1/93	0.50 =	0 U	--	--	--	--	0.40 U	0.40 U
50-50	299-W18-33 (50 ft) FD	D	5/1/93	0.70 =	0 U	--	--	--	--	0.50 U	0.50 U
135-135	299-W18-33 (135 ft)	N	5/1/93	1.1 =	0 U	--	--	--	--	0.50 U	0.50 U
145-145	299-W18-33 (145 ft)	N	5/1/93	0.80 =	0 U	--	--	--	--	1.4 =	1.4 =
299-W23-16											
-	299-W23-16 (EB)	EB	4/1/93	--	--	--	--	--	--	-5.00E-01 U	-5.00E-01 U
5-5	299-W23-16 (5 ft)	N	4/1/93	0.50 =	0 U	--	--	--	--	0.40 U	0.40 U
10-10	299-W23-16 (10 ft)	N	4/1/93	0.60 =	0 U	--	--	--	--	0.50 U	0.50 U
20-20	299-W23-16 (20 ft)	N	4/1/93	0.20 =	0 U	--	--	--	--	0.50 U	0.50 U
25-25	299-W23-16 (25 ft)	N	4/1/93	0.70 =	0 U	--	--	--	--	0.50 U	0.50 U
30-30	299-W23-16 (30 ft)	N	4/1/93	0.60 =	0 U	--	--	--	--	0.50 U	0.50 U
40-40	299-W23-16 (40 ft)	N	4/1/93	0.40 =	0 U	--	--	--	--	0.50 U	0.50 U
50-50	299-W23-16 (50 ft)	N	4/1/93	0.50 =	0 U	--	--	--	--	0.50 U	0.50 U
135-135	299-W23-16 (135 ft)	N	4/1/93	0.70 =	0 U	--	--	--	--	0.50 U	0.50 U
154-154	299-W23-16 (154 ft)	N	4/1/93	--	--	--	--	--	--	0.50 U	0.50 U
200-200	299-W23-16 (200 ft)	N	4/1/93	0.60 =	0 U	--	--	--	--	0.40 U	0.40 U

Table A-18c. 216-U-14 Ditch Radionuclides Analytical Data. (5 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Lead-214 (pCi/g)	Lead-214, Decayed (pCi/g)	Plutonium-238 (pCi/g)	Plutonium-238, Decayed (pCi/g)	Plutonium-238/239 (pCi/g)	Plutonium-238/239, Decayed (pCi/g)	Plutonium-239 (pCi/g)	Plutonium-239, Decayed (pCi/g)
				CAS Number							
				15067-28-4	15067-28-4	13981-16-3	13981-16-3	--	--	15117-48-3	15117-48-3
299-W23-17											
5-5	299-23-17 (5 ft)	N	4/1/93	214 =	8.20E-04 =	--	--	--	--	0.50 U	0.50 U
10-10	299-23-17 (10 ft)	N	4/1/93	0.60 =	0.0012 =	--	--	--	--	0.40 U	0.40 U
20-20	299-23-17 (20 ft)	N	4/1/93	0.50 =	9.80E-04=	--	--	--	--	0.40 U	0.40 U
25-25	299-23-17 (25 ft)	N	4/1/93	--	--	--	--	--	--	0.50 U	0.50 U
25-25	299-23-17 (25 ft) FD	D	4/1/93	--	--	--	--	--	--	0.40 U	0.40 U
30-30	299-23-17 (30 ft)	N	4/1/93	0.40 =	7.80E-04	--	--	--	--	0.40 U	0.40 U
40-40	299-23-17 (40 ft)	N	4/1/93	0.60 =	0.0012	--	--	--	--	0.50 U	0.50 U
45-45	299-23-17 (45 ft)	N	4/1/93	0.90 =	0.0018	--	--	--	--	0.50 U	0.50 U
135-135	299-23-17 (135 ft)	N	4/1/93	0.80 =	0.0016	--	--	--	--	0.50 U	0.50 U
149-149	299-23-17 (149 ft)	N	4/1/93	0.70 =	0.0014	--	--	--	--	0.40 U	0.40 U
200-200	299-23-17 (200 ft)	N	4/1/93	--	--	--	--	--	--	0.40 U	0.40 U
ETP-1											
9-9.5	B07CC7	N	6/26/93	--	--	0 U	0 U	--	--	--	--
ETP-2											
12-13	B07CC8	D	6/26/93	--	--	0 U	0 U	--	--	--	--
Test Pit #1											
9-9.5	Test Pit #1 (West) (9.0-9.5 ft)	N	6/1/92	0 U	0 U	--	--	1.8 =	1.8 =	--	--
9.5-10	Test Pit #1 (West) (9.5-10.0 ft)	N	6/1/92	0 U	0 U	--	--	2.1 =	2.1 =	--	--
12-13	Test Pit #1 (West) (12.0-13 ft)	N	6/1/92	0.10 =	0 U	--	--	0.40 =	0.40 =	--	--
14-15	Test Pit #1 (West) (14.0-15 ft)	N	6/1/92	0 U	0 U	--	--	0.42 =	0.42 =	--	--

Table A-18c. 216-U-14 Ditch Radionuclides Analytical Data. (5 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Lead-214 (pCi/g)	Lead-214, Decayed (pCi/g)	Plutonium-238 (pCi/g)	Plutonium-238, Decayed (pCi/g)	Plutonium-238/239 (pCi/g)	Plutonium-238/239, Decayed (pCi/g)	Plutonium-239 (pCi/g)	Plutonium-239, Decayed (pCi/g)
				CAS Number							
				15067-28-4	15067-28-4	13981-16-3	13981-16-3	--	--	15117-48-3	15117-48-3
16-17	Test Pit #1 (West) (16.0-17 ft)	N	6/1/92	0 U	0 U	--	--	0.48 =	0.48 =	--	--
18-19	Test Pit #1 (West) (18.0-19 ft)	N	6/1/92	0 U	0 U	--	--	0.38 =	0.38 =	--	--
Test Pit #2											
9-9.5	Test Pit #2 (Center) (9.0-9.5 ft)	N	6/1/92	0 U	0 U	--	--	1.5 =	1.5 =	--	--
9.5-10	Test Pit #2 (Center) (9.5-10.0 ft)	N	6/1/92	0 U	0 U	--	--	0.38 =	0.38 =	--	--
12-13	Test Pit #2 (Center) (12.0-13 ft)	N	6/1/92	0 U	0 U	--	--	0.50 =	0.50 =	--	--
14-15	Test Pit #2 (Center) (14.0-15 ft)	N	6/1/92	0 U	0 U	--	--	0.26 =	0.26 =	--	--
16-17	Test Pit #2 (Center) (16.0-17 ft)	N	6/1/92	0 U	0 U	--	--	0.26 =	0.26 =	--	--
18-19	Test Pit #2 (Center) (18.0-19 ft)	N	6/1/92	0 U	0 U	--	--	0.29 =	0.29 =	--	--
Test Pit #3											
9-9.5	Test Pit #3 (East) (9.0-9.5 ft)	N	6/1/92	0 U	0 U	--	--	0.35 =	0.35 =	--	--
9.5-10	Test Pit #3 (East) (9.5-10.0 f)	N	6/1/92	0 U	0 U	--	--	0.26 =	0.26 =	--	--
12-13	Test Pit #3 (East) (12.0-13 ft)	N	6/1/92	0 U	0 U	--	--	0.33 =	0.33 =	--	--
14-15	Test Pit #3 (East) (14.0-15 ft)	N	6/1/92	0 U	0 U	--	--	0.28 =	0.28 =	--	--
16-17	Test Pit #3 (East) (16.0-17 ft)	N	6/1/92	0 U	0 U	--	--	0.26 =	0.26 =	--	--

Table A-18c. 216-U-14 Ditch Radionuclides Analytical Data. (5 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Lead-214 (pCi/g)	Lead-214, Decayed (pCi/g)	Plutonium-238 (pCi/g)	Plutonium-238, Decayed (pCi/g)	Plutonium-238/239 (pCi/g)	Plutonium-238/239, Decayed (pCi/g)	Plutonium-239 (pCi/g)	Plutonium-239, Decayed (pCi/g)
				CAS Number							
				15067-28-4	15067-28-4	13981-16-3	13981-16-3	--	--	15117-48-3	15117-48-3
18-19	Test Pit #3 (East) (18.0-19 ft)	N	6/1/92	0 U	0 U	--	--	0.39 =	0.39 =	--	--

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-18d. 216-U-14 Ditch Radionuclides Analytical Data. (8 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium (pCi/g)	Radium, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)
				CAS Number							
				--	--	13966-00-2	13966-00-2	7440-14-4	7440-14-4	13982-63-3	13982-63-3
299-W18-250											
65-65	299-W18-250 (65 ft)	N	3/1/93	--	--	1.4 =	1.4 =	--	--	--	--
299-W18-251											
5-5	299-W18-251 (5 ft)	N	3/1/93	--	--	16 =	16 =	--	--	--	--
11-11	299-W18-251 (11 ft)	N	3/1/93	--	--	13 =	13 =	--	--	--	--
14-14	299-W18-251 (14 ft)	N	3/1/93	--	--	13 =	13 =	--	--	--	--
16-16	299-W18-251 (16 ft)	N	3/1/93	--	--	12 =	12 =	--	--	--	--
18-18	299-W18-251 (18 ft)	N	3/1/93	--	--	12 =	12 =	--	--	--	--
20-20	299-W18-251 (20 ft)	N	3/1/93	--	--	12 =	12 =	--	--	--	--
25-25	299-W18-251 (25 ft)	N	3/1/93	--	--	11 =	11 =	--	--	--	--
25-25	299-W18-251 (25 ft) FD	D	3/1/93	--	--	12 =	12 =	--	--	--	--
46-46	299-W18-251 (46 ft)	N	3/1/93	--	--	14 =	14 =	--	--	--	--
299-W18-33											
5-5	299-W18-33 (5 ft)	N	5/1/93	--	--	16 =	16 =	--	--	--	--
10-10	299-W18-33 (10 ft)	N	5/1/93	--	--	14 =	14 =	--	--	--	--
20-20	299-W18-33 (20 ft)	N	5/1/93	--	--	111 =	111 =	--	--	--	--
26-26	299-W18-33 (26 ft)	N	5/1/93	--	--	12 =	12 =	--	--	--	--
26-26	299-W18-33 (26 ft) FD	D	5/1/93	--	--	12 =	12 =	--	--	--	--
30-30	299-W18-33 (30 ft)	N	5/1/93	--	--	130 =	130 =	--	--	--	--
40-40	299-W18-33 (40 ft)	N	5/1/93	--	--	13 =	13 =	--	--	--	--
50-50	299-W18-33 (50 ft)	N	5/1/93	--	--	12 =	12 =	--	--	--	--
50-50	299-W18-33 (50 ft) FD	D	5/1/93	--	--	179 =	179 =	--	--	--	--
135-135	299-W18-33 (135 ft)	N	5/1/93	--	--	19 =	19 =	--	--	--	--

Table A-18d. 216-U-14 Ditch Radionuclides Analytical Data. (8 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium (pCi/g)	Radium, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)
				CAS Number							
				--	--	13966-00-2	13966-00-2	7440-14-4	7440-14-4	13982-63-3	13982-63-3
145-145	299-W18-33 (145 ft)	N	5/1/93	--	--	8.8 =	8.8 =	--	--	--	--
299-W19-21											
30-35	299-W19-21 (30-35 ft)	N	5/1/86	--	--	12 =	12 =	--	--	0 U	0 U
55-60	299-W19-21 (55-60 ft)	N	5/1/86	--	--	13 =	13 =	--	--	0.26 =	0.26 =
60-65	299-W19-21 (60-65 ft)	N	5/1/86	--	--	19 =	19 =	--	--	0.14 =	0.14 =
65-70	299-W19-21 (65-70 ft)	N	5/1/86	--	--	23 =	23 =	--	--	0.46 =	0.46 =
85-90	299-W19-21 (85-90 ft)	N	5/1/86	--	--	6.0 =	6.0 =	--	--	0.16 =	0.16 =
130-135	299-W19-21 (130-135 ft)	N	5/1/86	--	--	12 =	12 =	--	--	0 U	0 U
299-W19-27											
140-140	299-W19-27 (140 ft)	N	4/1/87	--	--	16 =	16 =	--	--	0.46 =	0.46 =
145-145	299-W19-27 (145 ft)	N	4/1/87	--	--	10 =	10 =	--	--	0.36 =	0.36 =
150-150	299-W19-27 (150 ft)	N	4/1/87	--	--	13 =	13 =	--	--	0.26 =	0.26 =
299-W19-91											
5-5	299-W19-91 (5 ft)	N	4/1/87	--	--	17 =	17 =	--	--	0.66 =	0.66 =
10-10	299-W19-91 (10 ft)	N	4/1/87	--	--	18 =	18 =	--	--	0.36 =	0.36 =
15-15	299-W19-91 (15 ft)	N	4/1/87	--	--	10 =	10 =	--	--	0.040 =	0.040 =
20-20	299-W19-91 (20 ft)	N	4/1/87	--	--	16 =	16 =	--	--	0.020 =	0.020 =
25-25	299-W19-91 (25 ft)	N	4/1/87	--	--	12 =	12 =	--	--	0.13 =	0.13 =
30-30	299-W19-91 (30 ft)	N	4/1/87	--	--	11 =	11 =	--	--	-9.00E-02 U	-9.00E-02 U
35-35	299-W19-91 (35 ft)	N	4/1/87	--	--	9.0 =	9.0 =	--	--	-4.00E-02 U	-4.00E-02 U
40-40	299-W19-91 (40 ft)	N	4/1/87	--	--	12 =	12 =	--	--	-1.20E-01 U	-1.20E-01 U
45-45	299-W19-91 (45 ft)	N	4/1/87	--	--	7.0 =	7.0 =	--	--	-4.00E-02 U	-4.00E-02 U
50-50	299-W19-91 (50 ft)	N	4/1/87	--	--	7.0 =	7.0 =	--	--	-3.00E-02 U	-3.00E-02 U
55-55	299-W19-91 (55 ft)	N	4/1/87	--	--	10 =	10 =	--	--	-1.10E-01 U	-1.10E-01 U

Table A-18d. 216-U-14 Ditch Radionuclides Analytical Data. (8 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium (pCi/g)	Radium, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)
				CAS Number							
				--	--	13966-00-2	13966-00-2	7440-14-4	7440-14-4	13982-63-3	13982-63-3
60-60	299-W19-91 (60 ft)	N	4/1/87	--	--	15 =	15 =	--	--	0.26 =	0.26 =
65-65	299-W19-91 (65 ft)	N	4/1/87	--	--	22 =	22 =	--	--	0.46 =	0.46 =
70-70	299-W19-91 (70 ft)	N	4/1/87	--	--	21 =	21 =	--	--	-2.00E-02 U	-2.00E-02 U
75-75	299-W19-91 (75 ft)	N	4/1/87	--	--	19 =	19 =	--	--	0.26 =	0.26 =
80-80	299-W19-91 (80 ft)	N	4/1/87	--	--	25 =	25 =	--	--	0.46 =	0.46 =
85-85	299-W19-91 (85 ft)	N	4/1/87	--	--	22 =	22 =	--	--	1.3 =	1.3 =
90-90	299-W19-91 (90 ft)	N	4/1/87	--	--	11 =	11 =	--	--	0.46 =	0.46 =
95-95	299-W19-91 (95 ft)	N	4/1/87	--	--	15 =	15 =	--	--	0.46 =	0.46 =
100-100	299-W19-91 (100 ft)	N	4/1/87	--	--	16 =	16 =	--	--	0.46 =	0.46 =
105-105	299-W19-91 (105 ft)	N	4/1/87	--	--	12 =	12 =	--	--	0.10 =	0.10 =
110-110	299-W19-91 (110 ft)	N	4/1/87	--	--	8.0 =	8.0 =	--	--	-1.00E-02 U	-1.00E-02 U
115-115	299-W19-91 (115 ft)	N	4/1/87	--	--	10 =	10 =	--	--	0.060 =	0.060 =
120-120	299-W19-91 (120 ft)	N	4/1/87	--	--	7.0 =	7.0 =	--	--	-5.00E-02 U	-5.00E-02 U
125-125	299-W19-91 (125 ft)	N	4/1/87	--	--	6.0 =	6.0 =	--	--	-4.00E-02 U	-4.00E-02 U
130-130	299-W19-91 (130 ft)	N	4/1/87	--	--	5.0 =	5.0 =	--	--	-4.00E-02 U	-4.00E-02 U
135-135	299-W19-91 (135 ft)	N	4/1/87	--	--	10 =	10 =	--	--	0.26 =	0.26 =
140-140	299-W19-91 (140 ft)	N	4/1/87	--	--	12 =	12 =	--	--	0.46 =	0.46 =
145-145	299-W19-91 (145 ft)	N	4/1/87	--	--	6.0 =	6.0 =	--	--	0.36 =	0.36 =
150-150	299-W19-91 (150 ft)	N	4/1/87	--	--	7.0 =	7.0 =	--	--	0.46 =	0.46 =
299-W19-92											
5-5	299-W19-92 (5 ft)	N	4/1/87	--	--	18 =	18 =	--	--	0.46 =	0.46 =
11-11	299-W19-92 (11 ft)	N	4/1/87	--	--	12 =	12 =	--	--	0.080 =	0.080 =
15-15	299-W19-92 (15 ft)	N	4/1/87	--	--	11 =	11 =	--	--	-4.00E-02 U	0.040 U
20-20	299-W19-92 (20 ft)	N	4/1/87	--	--	9.0 =	9.0 =	--	--	0.060 =	0.060 =

Table A-18d. 216-U-14 Ditch Radionuclides Analytical Data. (8 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium (pCi/g)	Radium, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)
				CAS Number							
				--	--	13966-00-2	13966-00-2	7440-14-4	7440-14-4	13982-63-3	13982-63-3
25-25	299-W19-92 (25 ft)	N	4/1/87	--	--	14 =	14 =	--	--	0 U	0 U
30-30	299-W19-92 (30 ft)	N	4/1/87	--	--	-1.25E+01 U	13 U	--	--	0.10 =	0.10 =
35-35	299-W19-92 (35 ft)	N	4/1/87	--	--	10 =	10 =	--	--	0.010 =	0.010 =
37-37	299-W19-92 (37 ft)	N	4/1/87	--	--	13 =	13 =	--	--	0.030 =	0.030 =
40-40	299-W19-92 (40 ft)	N	4/1/87	--	--	8.0 =	8.0 =	--	--	-2.00E-02U	0.020 U
45-45	299-W19-92 (45 ft)	N	4/1/87	--	--	7.0 =	7.0 =	--	--	0.26 =	0.26 =
50-50	299-W19-92 (50 ft)	N	4/1/87	--	--	17 =	17 =	--	--	0.26 =	0.26 =
55-55	299-W19-92 (55 ft)	N	4/1/87	--	--	14 =	14 =	--	--	0.36 =	0.36 =
60-60	299-W19-92 (60 ft)	N	4/1/87	--	--	17 =	17 =	--	--	0.66 =	0.66 =
65-65	299-W19-92 (65 ft)	N	4/1/87	--	--	19 =	19 =	--	--	1.1 =	1.1 =
70-70	299-W19-92 (70 ft)	N	4/1/87	--	--	23 =	23 =	--	--	0.86 =	0.86 =
75-75	299-W19-92 (75 ft)	N	4/1/87	--	--	15 =	15 =	--	--	0.46 =	0.46 =
80-80	299-W19-92 (80 ft)	N	4/1/87	--	--	20 =	20 =	--	--	0.66 =	0.66 =
85-85	299-W19-92 (85 ft)	N	4/1/87	--	--	18 =	18 =	--	--	0.86 =	0.86 =
90-90	299-W19-92 (90 ft)	N	4/1/87	--	--	14 =	14 =	--	--	0.96 =	0.96 =
95-95	299-W19-92 (95 ft)	N	4/1/87	--	--	12 =	12 =	--	--	0.56 =	0.56 =
100-100	299-W19-92 (100 ft)	N	4/1/87	--	--	6.0 =	6.0 =	--	--	0.13 =	0.13 =
105-105	299-W19-92 (105 ft)	N	4/1/87	--	--	10 =	10 =	--	--	0.050 =	0.050 =
110-110	299-W19-92 (110 ft)	N	4/1/87	--	--	10 =	10 =	--	--	0.020 =	0.020 =
115-115	299-W19-92 (115 ft)	N	4/1/87	--	--	10 =	10 =	--	--	0.030 =	0.030 =
120-120	299-W19-92 (120 ft)	N	4/1/87	--	--	10 =	10 =	--	--	-3.00E-02 U	0.030 U
125-125	299-W19-92 (125 ft)	N	4/1/87	--	--	9.0 =	9.0 =	--	--	0.020 =	0.020 =
130-130	299-W19-92 (130 ft)	N	4/1/87	--	--	9.0 =	9.0 =	--	--	0.46 =	0.46 =
135-135	299-W19-92 (135 ft)	N	4/1/87	--	--	7.0 =	7.0 =	--	--	0.36 =	0.36 =

Table A-18d. 216-U-14 Ditch Radionuclides Analytical Data. (8 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium (pCi/g)	Radium, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)
				CAS Number							
				--	--	13966-00-2	13966-00-2	7440-14-4	7440-14-4	13982-63-3	13982-63-3
140-140	299-W19-92 (140 ft)	N	4/1/87	--	--	9.0 =	9.0 =	--	--	0.36 =	0.36 =
145-145	299-W19-92 (145 ft)	N	4/1/87	--	--	8.0 =	8.0 =	--	--	0.26 =	0.26 =
150-150	299-W19-92 (150 ft)	N	4/1/87	--	--	7.0 =	7.0 =	--	--	0.66 =	0.66 =
299-W19-93											
5-5	299-W19-93 (5 ft)	N	4/1/87	--	--	18 =	18 =	--	--	0.16 =	0.16 =
10-10	299-W19-93 (10 ft)	N	4/1/87	--	--	8.0 =	8.0 =	--	--	-7.00E-02 U	0.070 U
15-15	299-W19-93 (15 ft)	N	4/1/87	--	--	4.0 =	4.0 =	--	--	0 U	0 U
20-20	299-W19-93 (20 ft)	N	4/1/87	--	--	15 =	15 =	--	--	-9.00E-02 U	0.090 U
25-25	299-W19-93 (25 ft)	N	4/1/87	--	--	12 =	12 =	--	--	-3.00E-02 U	0.030 U
30-30	299-W19-93 (30 ft)	N	4/1/87	--	--	8.0 =	8.0 =	--	--	0.090 =	0.090 =
35-35	299-W19-93 (35 ft)	N	4/1/87	--	--	9.0 =	9.0 =	--	--	0.15 =	0.15 =
40-40	299-W19-93 (40 ft)	N	4/1/87	--	--	11 =	11 =	--	--	0.10 =	
45-45	299-W19-93 (45 ft)	N	4/1/87	--	--	20 =	20 =	--	--	-2.60E-01 U	0.26 U
50-50	299-W19-93 (50 ft)	N	4/1/87	--	--	8.0 =	8.0 =	--	--	-1.80E-01 U	0.18 U
55-55	299-W19-93 (55 ft)	N	4/1/87	--	--	13	13 =	--	--	0.010 =	0.010 =
60-60	299-W19-93 (60 ft)	N	4/1/87	--	--	15	15 =	--	--	0.010 =	0.010 =
65-65	299-W19-93 (65 ft)	N	4/1/87	--	--	13 =	13 =	--	--	0.66 =	0.66 =
70-70	299-W19-93 (70 ft)	N	4/1/87	--	--	15 =	15 =	--	--	0.66 =	0.66 =
75-75	299-W19-93 (75 ft)	N	4/1/87	--	--	11 =	11 =	--	--	0.86 =	0.86 =
80-80	299-W19-93 (80 ft)	N	4/1/87	--	--	16 =	16 =	--	--	-2.00E-02 U	0.020 U
85-85	299-W19-93 (85 ft)	N	4/1/87	--	--	17 =	17 =	--	--	0.16 =	0.16 =
90-90	299-W19-93 (90 ft)	N	4/1/87	--	--	9.0 =	9.0 =	--	--	0.26 =	0.26 =
95-95	299-W19-93 (95 ft)	N	4/1/87	--	--	12 =	12 =	--	--	0.16 =	0.16 =
100-100	299-W19-93 (100 ft)	N	4/1/87	--	--	11 =	11 =	--	--	0.090 =	0.090 =

Table A-18d. 216-U-14 Ditch Radionuclides Analytical Data. (8 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium (pCi/g)	Radium, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)
				CAS Number							
				--	--	13966-00-2	13966-00-2	7440-14-4	7440-14-4	13982-63-3	13982-63-3
105-105	299-W19-93 (105 ft)	N	4/1/87	--	--	10 =	10 =	--	--	0.060 =	0.060 =
110-110	299-W19-93 (110 ft)	N	4/1/87	--	--	10 =	10 =	--	--	0.36 =	0.36 =
115-115	299-W19-93 (115 ft)	N	4/1/87	--	--	12 =	12 =	--	--	8.4 =	8.4 =
120-120	299-W19-93 (120 ft)	N	4/1/87	--	--	7.0 =	7.0 =	--	--	7.0 =	7.0 =
299-W23-16											
5-5	299-W23-16 (5 ft)	N	4/1/93	--	--	12 =	12 =	--	--	--	--
10-10	299-W23-16 (10 ft)	N	4/1/93	--	--	16 =	16 =	--	--	--	--
20-20	299-W23-16 (20 ft)	N	4/1/93	--	--	12 =	12 =	--	--	--	--
25-25	299-W23-16 (25 ft)	N	4/1/93	--	--	17 =	17 =	--	--	--	--
30-30	299-W23-16 (30 ft)	N	4/1/93	--	--	15 =	15 =	--	--	--	--
40-40	299-W23-16 (40 ft)	N	4/1/93	--	--	11 =	11 =	--	--	--	--
50-50	299-W23-16 (50 ft)	N	4/1/93	--	--	13 =	13 =	--	--	--	--
135-135	299-W23-16 (135 ft)	N	4/1/93	--	--	17 =	17 =	--	--	--	--
154-154	299-W23-16 (154 ft)	N	4/1/93	--	--	13 =	13 =	--	--	--	--
200-200	299-W23-16 (200 ft)	N	4/1/93	--	--	107 =	107 =	--	--	--	--
299-W23-17											
5-5	299-23-17 (5 ft)	N	4/1/93	--	--	16 =	16 =	--	--	--	--
10-10	299-23-17 (10 ft)	N	4/1/93	--	--	13 =	13 =	--	--	--	--
20-20	299-23-17 (20 ft)	N	4/1/93	--	--	10 =	10 =	--	--	--	--
30-30	299-23-17 (30 ft)	N	4/1/93	--	--	10 =	10 =	--	--	--	--
40-40	299-23-17 (40 ft)	N	4/1/93	--	--	15 =	15 =	--	--	--	--
45-45	299-23-17 (45 ft)	N	4/1/93	--	--	15 =	15 =	--	--	--	--
135-135	299-23-17 (135 ft)	N	4/1/93	--	--	15 =	15 =	--	--	--	--
149-149	299-23-17 (149 ft)	N	4/1/93	--	--	8.9 =	8.9 =	--	--	--	--

Table A-18d. 216-U-14 Ditch Radionuclides Analytical Data. (8 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium (pCi/g)	Radium, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)
				CAS Number							
				--	--	13966-00-2	13966-00-2	7440-14-4	7440-14-4	13982-63-3	13982-63-3
200-200	299-23-17 (200 ft)	N	4/1/93	--	--	131 =	131 =	--	--	--	--
ETP-1											
9-9.5	B07CC7	N	6/26/93	10 =	10 =	--	--	--	--	--	--
11-12	B07CD2	N	6/26/93	--	--	--	--	1.0 =	1.0 =	--	--
15-17	B07CD4	N	6/26/93	--	--	--	--	1.0 =	0 U	--	--
ETP-2											
12-13	B07CC5	N	6/26/93	--	--	--	--	1.0 =	0 U	--	--
12-13	B07CC8	D	6/26/93	0 U	0 U	--	--	1.0 =	0 U	--	--
15-17	B07CD0	N	6/26/93	--	--	--	--	1.0 =	0 U	--	--
ETP-3											
11-13	B07CC0	N	6/26/93	--	--	--	--	1.0 =	0 U	--	--
18-19	B07CB8	N	6/26/93	--	--	--	--	1.0 =	0 U	--	--
Test Pit #1											
9-9.5	Test Pit #1 (West) (9.0-9.5 ft)	N	6/1/92	--	--	10 =	10 =	--	--	--	--
9.5-10	Test Pit #1 (West) (9.5-10.0 ft)	N	6/1/92	--	--	12 =	12 =	--	--	--	--
12-13	Test Pit #1 (West) (12.0-13 ft)	N	6/1/92	--	--	1.2 =	1.2 =	--	--	--	--
18-19	Test Pit #1 (West) (18.0-19 ft)	N	6/1/92	--	--	8.5 =	8.5 =	--	--	--	--
Test Pit #2											
9-9.5	Test Pit #2 (Center) (9.0-9.5 ft)	N	6/1/92	--	--	0 U	0 U	--	--	--	--
9.5-10	Test Pit #2 (Center) (9.5-10.0 ft)	N	6/1/92	--	--	0 U	0 U	--	--	--	--

Table A-18d. 216-U-14 Ditch Radionuclides Analytical Data. (8 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Plutonium-239/240 (pCi/g)	Plutonium-239/240, Decayed (pCi/g)	Potassium-40 (pCi/g)	Potassium-40, Decayed (pCi/g)	Radium (pCi/g)	Radium, Decayed (pCi/g)	Radium-226 (pCi/g)	Radium-226, Decayed (pCi/g)
				CAS Number							
				--	--	13966-00-2	13966-00-2	7440-14-4	7440-14-4	13982-63-3	13982-63-3
12-13	Test Pit #2 (Center) (12.0-13 ft)	N	6/1/92	--	--	0 U	0 U	--	--	--	--
14-15	Test Pit #2 (Center) (14.0-15 ft)	N	6/1/92	--	--	0 U	0 U	--	--	--	--
16-17	Test Pit #2 (Center) (16.0-17 ft)	N	6/1/92	--	--	0 U	0 U	--	--	--	--
18-19	Test Pit #2 (Center) (18.0-19 ft)	N	6/1/92	--	--	11 =	11 =	--	--	--	--
Test Pit #3											
9-9.5	Test Pit #3 (East) (9.0-9.5 ft)	N	6/1/92	--	--	6.3 =	6.3 =	--	--	--	--
9.5-10	Test Pit #3 (East) (9.5-10.0 f)	N	6/1/92	--	--	0 U	0 U	--	--	--	--
12-13	Test Pit #3 (East) (12.0-13 ft)	N	6/1/92	--	--	0 U	0 U	--	--	--	--
14-15	Test Pit #3 (East) (14.0-15 ft)	N	6/1/92	--	--	8.8 =	8.8 =	--	--	--	--
16-17	Test Pit #3 (East) (16.0-17 ft)	N	6/1/92	--	--	0 U	0 U	--	--	--	--
18-19	Test Pit #3 (East) (18.0-19 ft)	N	6/1/92	--	--	1.1 =	1.1 =	--	--	--	--

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-18e. 216-U-14 Ditch Radionuclides Analytical Data. (5 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Ruthenium-106 (pCi/g)	Ruthenium-106, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)	Technetium-99 (pCi/g)	Technetium-99, Decayed (pCi/g)	Thallium-208 (pCi/g)	Thallium-208, Decayed (pCi/g)
				CAS Number							
				13967-48-1	13967-48-1	10098-97-2	10098-97-2	14133-76-7	14133-76-7	560-00-0	560-00-0
299-W18-250											
5-5	299-W18-250 (5 ft)	N	3/1/93	--	--	6.10E-07 U	6.10E-07 U	--	--	--	--
11-11	299-W18-250 (11 ft)	N	3/1/93	--	--	5.80E-07 =	5.80E-07 =	--	--	--	--
14-14	299-W18-250 (14 ft)	N	3/1/93	--	--	2.50E-07 U	2.50E-07 U	--	--	--	--
16-16	299-W18-250 (16 ft)	N	3/1/93	--	--	7.10E-07 U	7.10E-07 U	--	--	--	--
18-18	299-W18-250 (18 ft)	N	3/1/93	--	--	4.10E-07 =	4.10E-07 =	--	--	--	--
20-20	299-W18-250 (20 ft)	N	3/1/93	--	--	0.82 U	0.82 U	--	--	--	--
25-25	299-W18-250 (25 ft)	N	3/1/93	--	--	5.20E-07 U	5.20E-07 U	--	--	--	--
50-50	299-W18-250 (50 ft)	N	3/1/93	--	--	0.45 =	0.40 =	--	--	--	--
65-65	299-W18-250 (65 ft)	N	3/1/93	--	--	0.17 =	0.10 =	--	--	0.23 =	0 U
299-W18-251											
5-5	299-W18-251 (5 ft)	N	3/1/93	--	--	0.40 U	0.40 U	--	--	0.24 =	0 U
11-11	299-W18-251 (11 ft)	N	3/1/93	--	--	0.40 U	0.40 U	--	--	0.23 =	0 U
14-14	299-W18-251 (14 ft)	N	3/1/93	--	--	0.30 U	0.30 U	--	--	0.17 =	0 U
16-16	299-W18-251 (16 ft)	N	3/1/93	--	--	0.30 U	0.30 U	--	--	0.17 =	0 U
18-18	299-W18-251 (18 ft)	N	3/1/93	--	--	0.80 =	0.80 =	--	--	0.15 =	0 U
20-20	299-W18-251 (20 ft)	N	3/1/93	--	--	0.50 U	0.50 U	--	--	0.17 =	0 U
25-25	299-W18-251 (25 ft)	N	3/1/93	--	--	0.40 U	0.40 U	--	--	0.20 =	0 U
25-25	299-W18-251 (25 ft) FD	D	3/1/93	--	--	0.80 U	0.80 U	--	--	0.16 =	0 U
46-46	299-W18-251 (46 ft)	N	3/1/93	--	--	5.7 =	4.6 =	--	--	0.20 =	0 U
98-98	299-W18-251 (98 ft)	N	3/1/93	--	--	0.50 =	0.40 =	--	--	0.29 =	0 U
128-128	299-W18-251 (128 ft)	N	3/1/93	--	--	0.67 =	0.50 =	--	--	--	--
149-149	299-W18-251 (149 ft)	N	3/1/93	--	--	0.59 =	0.50 =	--	--	--	--

Table A-18e. 216-U-14 Ditch Radionuclides Analytical Data. (5 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Ruthenium-106 (pCi/g)	Ruthenium-106, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)	Technetium-99 (pCi/g)	Technetium-99, Decayed (pCi/g)	Thallium-208 (pCi/g)	Thallium-208, Decayed (pCi/g)
				CAS Number							
				13967-48-1	13967-48-1	10098-97-2	10098-97-2	14133-76-7	14133-76-7	560-00-0	560-00-0
299-W23-16											
-	299-W23-16 (EB)	N	4/1/93	--	--	0.20 U	0.20 U	--	--	0.30 U	0.30 U
5-5	299-W23-16 (5 ft)	N	4/1/93	--	--	0.25 =	0.20 =	--	--	0.16 =	0 U
10-10	299-W23-16 (10 ft)	N	4/1/93	--	--	0.50 U	0.50 U	--	--	0.28 =	0 U
20-20	299-W23-16 (20 ft)	N	4/1/93	--	--	0.40 U	0.40 U	--	--	0.17 =	0 U
25-25	299-W23-16 (25 ft)	N	4/1/93	--	--	0.66 U	0.66 U	--	--	0.23 =	0 U
30-30	299-W23-16 (30 ft)	N	4/1/93	--	--	0.62 =	0.50 =	--	--	0.29 =	0 U
40-40	299-W23-16 (40 ft)	N	4/1/93	--	--	0.32 =	0.30 =	--	--	0.13 =	0 U
50-50	299-W23-16 (50 ft)	N	4/1/93	--	--	0.67 U	0.67 U	--	--	0.20 =	0 U
135-135	299-W23-16 (135 ft)	N	4/1/93	--	--	0.97 =	0.80 =	--	--	0.33 =	0 U
154-154	299-W23-16 (154 ft)	N	4/1/93	--	--	0.55 =	0.40 =	--	--	0.28 =	0 U
200-200	299-W23-16 (200 ft)	N	4/1/93	--	--	0.55 =	0.40 =	--	--	0.16 =	0 U
299-W23-17											
5-5	299-23-17 (5 ft)	N	4/1/93	--	--	0.50 U	0.50 U	--	--	0.30 =	0 U
10-10	299-23-17 (10 ft)	N	4/1/93	--	--	0.73 U	0.73 U	--	--	0.21 =	0 U
20-20	299-23-17 (20 ft)	N	4/1/93	--	--	0.62 U	0.62 U	--	--	0.17 =	0 U
25-25	299-23-17 (25 ft)	N	4/1/93	--	--	0.29 =	0.40 =	--	--	--	--
25-25	299-23-17 (25 ft) FD	D	4/1/93	--	--	0.29 =	0.14 =	--	--	--	--
30-30	299-23-17 (30 ft)	N	4/1/93	--	--	0.45 =	0.040 =	--	--	0.13 =	0 U
40-40	299-23-17 (40 ft)	N	4/1/93	--	--	0.41 U	0.41 U	--	--	0.20 =	0 U
45-45	299-23-17 (45 ft)	N	4/1/93	--	--	7.00E-07 =	7.00E-07 U	--	--	0.25 =	0 U
135-135	299-23-17 (135 ft)	N	4/1/93	--	--	0.93 =	0.19 =	--	--	0.33 =	0 U
149-149	299-23-17 (149 ft)	N	4/1/93	--	--	0.34 =	0.18 =	--	--	0.17 =	0 U
200-200	299-23-17 (200 ft)	N	4/1/93	--	--	0.39 U	0.39 U	--	--	0.10 U	0.10 U

Table A-18e. 216-U-14 Ditch Radionuclides Analytical Data. (5 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Ruthenium-106 (pCi/g)	Ruthenium-106, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)	Technetium-99 (pCi/g)	Technetium-99, Decayed (pCi/g)	Thallium-208 (pCi/g)	Thallium-208, Decayed (pCi/g)
				CAS Number							
				13967-48-1	13967-48-1	10098-97-2	10098-97-2	14133-76-7	14133-76-7	560-00-0	560-00-0
ETP-1											
9-9.5	B07CC7	N	6/26/93	-4.00E+00 U	-4.00E+00 U	4.0 =	3.2 =	12 =	12 =	--	--
11-12	B07CD2	N	6/26/93	--	--	0 U	0 U	--	--	--	--
15-17	B07CD4	N	6/26/93	--	--	1.0 =	0 U	--	--	--	--
ETP-2											
9-9.5	B07CC4	N	6/26/93	--	--	0 U	0 U	--	--	--	--
12-13	B07CC5	N	6/26/93	--	--	0 U	0 U	--	--	--	--
12-13	B07CC8	D	6/26/93	--	--	0 U	0 U	--	--	--	--
15-17	B07CD0	N	6/26/93	--	--	0 U	0 U	--	--	--	--
ETP-3											
9-9.5	B07CC2	N	6/26/93	--	--	1.0 =	0.81 =	--	--	--	--
11-13	B07CC0	N	6/26/93	--	--	1.0 =	0.81 =	--	--	--	--
15-17	B07CC3	N	6/26/93	--	--	1.0 =	0.81 =	--	--	--	--
18-19	B07CB8	N	6/26/93	--	--	1.0 =	0.81 =	--	--	--	--
Test Pit #1											
9-9.5	Test Pit #1 (West) (9.0-9.5 ft)	N	6/1/92	--	--	1.0 =	9.78E-04 =	--	--	--	--
9.5-10	Test Pit #1 (West) (9.5-10.0 ft)	N	6/1/92	--	--	0.86 =	0.68 =	--	--	--	--
12-13	Test Pit #1 (West) (12.0-13 ft)	N	6/1/92	--	--	1.6 =	1.3 =	--	--	--	--
14-15	Test Pit #1 (West) (14.0-15 ft)	N	6/1/92	--	--	2.5 =	2.0 =	--	--	--	--
16-17	Test Pit #1 (West) (16.0-17 ft)	N	6/1/92	--	--	2.0 =	1.6 =	--	--	--	--

Table A-18e. 216-U-14 Ditch Radionuclides Analytical Data. (5 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Ruthenium-106 (pCi/g)	Ruthenium-106, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)	Technetium-99 (pCi/g)	Technetium-99, Decayed (pCi/g)	Thallium-208 (pCi/g)	Thallium-208, Decayed (pCi/g)
				CAS Number							
				13967-48-1	13967-48-1	10098-97-2	10098-97-2	14133-76-7	14133-76-7	560-00-0	560-00-0
18-19	Test Pit #1 (West) (18.0-19 ft)	N	6/1/92	--	--	1.8 =	1.4 =	--	--	--	--
Test Pit #2											
9-9.5	Test Pit #2 (Center) (9.0-9.5 ft)	N	6/1/92	--	--	0.62 =	0.49 =	--	--	--	--
9.5-10	Test Pit #2 (Center) (9.5-10.0 ft)	N	6/1/92	--	--	3.1 =	2.4 =	--	--	--	--
12-13	Test Pit #2 (Center) (12.0-13 ft)	N	6/1/92	--	--	0.47 =	0.37 =	--	--	--	--
14-15	Test Pit #2 (Center) (14.0-15 ft)	N	6/1/92	--	--	6.6 =	5.2 =	--	--	--	--
16-17	Test Pit #2 (Center) (16.0-17 ft)	N	6/1/92	--	--	1.2 =	0.95 =	--	--	--	--
18-19	Test Pit #2 (Center) (18.0-19 ft)	N	6/1/92	--	--	2.9 =	2.3 =	--	--	--	--
Test Pit #3											
9-9.5	Test Pit #3 (East) (9.0-9.5 ft)	N	6/1/92	--	--	0.85 =	0.67 =	--	--	--	--
9.5-10	Test Pit #3 (East) (9.5-10.0 f)	N	6/1/92	--	--	0.68 =	0.54 =	--	--	--	--
12-13	Test Pit #3 (East) (12.0-13 ft)	N	6/1/92	--	--	2.5 =	2.0 =	--	--	--	--
14-15	Test Pit #3 (East) (14.0-15 ft)	N	6/1/92	--	--	0.73 =	0.58 =	--	--	--	--
16-17	Test Pit #3 (East) (16.0-17 ft)	N	6/1/92	--	--	0.60 =	0.47 =	--	--	--	--
18-19	Test Pit #3 (East) (18.0-19 ft)	N	6/1/92	--	--	3.9 =	3.1 =	--	--	--	--

Table A-18e. 216-U-14 Ditch Radionuclides Analytical Data. (5 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Ruthenium-106 (pCi/g)	Ruthenium-106, Decayed (pCi/g)	Strontium-90 (pCi/g)	Strontium-90, Decayed (pCi/g)	Technetium-99 (pCi/g)	Technetium-99, Decayed (pCi/g)	Thallium-208 (pCi/g)	Thallium-208, Decayed (pCi/g)
				CAS Number							
				13967-48-1	13967-48-1	10098-97-2	10098-97-2	14133-76-7	14133-76-7	560-00-0	560-00-0

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
Not analyzed
= Detected

Table A-18f. 216-U-14 Ditch Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Thorium-228 (pCi/g)	Thorium-228, Decayed (pCi/g)	Uranium (pCi/g)	Uranium, Decayed (pCi/g)	Uranium-235 (pCi/g)	Uranium-235, Decayed (pCi/g)	Uranium-238 (pCi/g)	Uranium-238, Decayed (pCi/g)
				CAS Number							
				14274-82-9	14274-82-9	--	--	15117-96-1	15117-96-1	7440-61-1	7440-61-1
299-W18-250											
5-5	299-W18-250 (5 ft)	N	3/1/93	--	--	--	--	--	--	0.21 =	0.21 =
11-11	299-W18-250 (11 ft)	N	3/1/93	--	--	--	--	--	--	011 =	011 =
14-14	299-W18-250 (14 ft)	N	3/1/93	--	--	--	--	--	--	0.17 =	0.17 =
16-16	299-W18-250 (16 ft)	N	3/1/93	--	--	--	--	--	--	0.20 =	0.20 =
18-18	299-W18-250 (18 ft)	N	3/1/93	--	--	--	--	--	--	0.17 =	0.17 =
20-20	299-W18-250 (20 ft)	N	3/1/93	--	--	--	--	--	--	0.21 =	0.21 =
25-25	299-W18-250 (25 ft)	N	3/1/93	--	--	--	--	--	--	0.12 =	0.12 =
50-50	299-W18-250 (50 ft)	N	3/1/93	--	--	--	--	--	--	0.21 =	0.21 =
65-65	299-W18-250 (65 ft)	N	3/1/93	--	--	--	--	--	--	0.10 =	0.10 =
299-W18-251											
5-5	299-W18-251 (5 ft)	N	3/1/93	--	--	--	--	--	--	0.40 =	0.40 =
11-11	299-W18-251 (11 ft)	N	3/1/93	--	--	--	--	--	--	0.14 =	0.14 =
14-14	299-W18-251 (14 ft)	N	3/1/93	--	--	--	--	--	--	0.12 =	0.12 =
16-16	299-W18-251 (16 ft)	N	3/1/93	--	--	--	--	--	--	0.11 =	0.11 =
18-18	299-W18-251 (18 ft)	N	3/1/93	--	--	--	--	--	--	0.13 =	0.13 =
20-20	299-W18-251 (20 ft)	N	3/1/93	--	--	--	--	--	--	0.11 =	0.11 =
25-25	299-W18-251 (25 ft)	N	3/1/93	--	--	--	--	--	--	0.10 =	0.10 =
25-25	299-W18-251 (25 ft) FD	D	3/1/93	--	--	--	--	--	--	0.83 =	0.83 =
46-46	299-W18-251 (46 ft)	N	3/1/93	--	--	--	--	--	--	0.76 =	0.76 =
98-98	299-W18-251 (98 ft)	N	3/1/93	--	--	--	--	--	--	0.14 =	0.14 =
128-128	299-W18-251 (128 ft)	N	3/1/93	--	--	--	--	--	--	0.17 =	0.17 =
149-149	299-W18-251 (149 ft)	N	3/1/93	--	--	--	--	--	--	0.070 =	0.070 =

Table A-18f. 216-U-14 Ditch Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Thorium-228 (pCi/g)	Thorium-228, Decayed (pCi/g)	Uranium (pCi/g)	Uranium, Decayed (pCi/g)	Uranium-235 (pCi/g)	Uranium-235, Decayed (pCi/g)	Uranium-238 (pCi/g)	Uranium-238, Decayed (pCi/g)
				CAS Number							
				14274-82-9	14274-82-9	--	--	15117-96-1	15117-96-1	7440-61-1	7440-61-1
299-W18-33											
5-5	299-W18-33 (5 ft)	N	5/1/93	--	--	--	--	--	--	0.18 =	0.18 =
10-10	299-W18-33 (10 ft)	N	5/1/93	--	--	--	--	--	--	1.1 =	1.1 =
20-20	299-W18-33 (20 ft)	N	5/1/93	--	--	--	--	--	--	0.13 =	0.13 =
26-26	299-W18-33 (26 ft)	N	5/1/93	--	--	--	--	--	--	0.11 =	0.11 =
26-26	299-W18-33 (26 ft) FD	D	5/1/93	--	--	--	--	--	--	0.080 =	0.080 =
30-30	299-W18-33 (30 ft)	N	5/1/93	--	--	--	--	--	--	0.070 =	0.070 =
40-40	299-W18-33 (40 ft)	N	5/1/93	--	--	--	--	--	--	0.080 =	0.080 =
50-50	299-W18-33 (50 ft)	N	5/1/93	--	--	--	--	--	--	0.090 =	0.090 =
50-50	299-W18-33 (50 ft) FD	D	5/1/93	--	--	--	--	--	--	0.070 =	0.070 =
135-135	299-W18-33 (135 ft)	N	5/1/93	--	--	--	--	--	--	0.50 =	0.50 =
145-145	299-W18-33 (145 ft)	N	5/1/93	--	--	--	--	--	--	0.30 =	0.30 =
299-W19-21											
30-35	299-W19-21 (30-35 ft)	N	5/1/86	0.45 =	0 U	--	--	0.060 =	0.060 =	--	--
55-60	299-W19-21 (55-60 ft)	N	5/1/86	0.65 =	0 U	--	--	0.10 =	0.10 =	--	--
60-65	299-W19-21 (60-65 ft)	N	5/1/86	1.4 =	0 U	--	--	0.13 =	0.13 =	--	--
65-70	299-W19-21 (65-70 ft)	N	5/1/86	1.2 =	0 U	--	--	-3.60E-01 U	0.36 U	--	--
85-90	299-W19-21 (85-90 ft)	N	5/1/86	0.85 =	0 U	--	--	-1.10E-01 U	0.11 U	--	--
130-135	299-W19-21 (130-135 ft)	N	5/1/86	0.45 =	0 U	--	--	-1.40E-01 U	0.45 U	--	--
299-W19-27											
140-140	299-W19-27 (140 ft)	N	4/1/87	0.85 =	0 U	--	--	0.010 =	0.010 =	--	--
145-145	299-W19-27 (145 ft)	N	4/1/87	0.85 =	0 U	--	--	-6.00E-02 U	0.060 U	--	--
150-150	299-W19-27 (150 ft)	N	4/1/87	0.75 =	0 U	--	--	-8.00E-02 U	0.080 U	--	--
299-W19-91											

Table A-18f. 216-U-14 Ditch Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Thorium-228 (pCi/g)	Thorium-228, Decayed (pCi/g)	Uranium (pCi/g)	Uranium, Decayed (pCi/g)	Uranium-235 (pCi/g)	Uranium-235, Decayed (pCi/g)	Uranium-238 (pCi/g)	Uranium-238, Decayed (pCi/g)
				CAS Number							
				14274-82-9	14274-82-9	--	--	15117-96-1	15117-96-1	7440-61-1	7440-61-1
5-5	299-W19-91 (5 ft)	N	4/1/87	0.75 =	0 U	--	--	-2.00E-01 U	0.20 U	--	--
10-10	299-W19-91 (10 ft)	N	4/1/87	0.65 =	0 U	--	--	-1.10E-01 U	0.11 U	--	--
15-15	299-W19-91 (15 ft)	N	4/1/87	0.14 =	0 U	--	--	0.040 =	0.040 =	--	--
20-20	299-W19-91 (20 ft)	N	4/1/87	0.45 =	0 U	--	--	0.17 =	0.17 =	--	--
25-25	299-W19-91 (25 ft)	N	4/1/87	0.45 =	0 U	--	--	0.070 =	0.070 =	--	--
30-30	299-W19-91 (30 ft)	N	4/1/87	0.27 =	0 U	--	--	0.010 =	0.010 =	--	--
35-35	299-W19-91 (35 ft)	N	4/1/87	0.12 =	0 U	--	--	0.010 =	0.010 =	--	--
40-40	299-W19-91 (40 ft)	N	4/1/87	0.13 =	0 U	--	--	0.070 =	0.070 =	--	--
45-45	299-W19-91 (45 ft)	N	4/1/87	0.070 =	0 U	--	--	-1.10E-01 U	0.11 U	--	--
50-50	299-W19-91 (50 ft)	N	4/1/87	0.040 =	0 U	--	--	-1.50E-01 U	0.15 U	--	--
55-55	299-W19-91 (55 ft)	N	4/1/87	0.34 =	0 U	--	--	0.020 =	0.020 =	--	--
60-60	299-W19-91 (60 ft)	N	4/1/87	0.11 =	0 U	--	--	0.040 =	0.040 =	--	--
65-65	299-W19-91 (65 ft)	N	4/1/87	0.55 =	0 U	--	--	0.15 =	0.15 =	--	--
70-70	299-W19-91 (70 ft)	N	4/1/87	0.31 =	0 U	--	--	0.11 =	0.11 =	--	--
75-75	299-W19-91 (75 ft)	N	4/1/87	0.85 =	0 U	--	--	0.060 =	0.060 =	--	--
80-80	299-W19-91 (80 ft)	N	4/1/87	0.55 =	0 U	--	--	-3.00E-02 U	0.030 U	--	--
85-85	299-W19-91 (85 ft)	N	4/1/87	0.85 =	0 U	--	--	0.22 =	0.22 =	--	--
90-90	299-W19-91 (90 ft)	N	4/1/87	0.55 =	0 U	--	--	-6.00E-02 U	0.060 U	--	--
95-95	299-W19-91 (95 ft)	N	4/1/87	0.26 =	0 U	--	--	-2.20E-01 U	0.22 U	--	--
100-100	299-W19-91 (100 ft)	N	4/1/87	0.30 =	0 U	--	--	0.020 =	0.020 =	--	--
105-105	299-W19-91 (105 ft)	N	4/1/87	0.14 =	0 U	--	--	-1.00E-01 U	0.10 U	--	--
110-110	299-W19-91 (110 ft)	N	4/1/87	0.060 =	0 U	--	--	-8.00E-02 U	0.080 U	--	--
115-115	299-W19-91 (115 ft)	N	4/1/87	0.65 =	0 U	--	--	-1.10E-01 U	0.11 U	--	--
120-120	299-W19-91 (120 ft)	N	4/1/87	0.30 =	0 U	--	--	-1.00E-01 U	0.10 U	--	--

Table A-18f. 216-U-14 Ditch Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Thorium-228 (pCi/g)	Thorium-228, Decayed (pCi/g)	Uranium (pCi/g)	Uranium, Decayed (pCi/g)	Uranium-235 (pCi/g)	Uranium-235, Decayed (pCi/g)	Uranium-238 (pCi/g)	Uranium-238, Decayed (pCi/g)
				CAS Number							
				14274-82-9	14274-82-9	--	--	15117-96-1	15117-96-1	7440-61-1	7440-61-1
125-125	299-W19-91 (125 ft)	N	4/1/87	0.10 =	0 U	--	--	-2.00E-02 U	0.020 U	--	--
130-130	299-W19-91 (130 ft)	N	4/1/87	0.29 =	0 U	--	--	-5.00E-02 U	0.050 U	--	--
135-135	299-W19-91 (135 ft)	N	4/1/87	0.45 =	0 U	--	--	-6.00E-02 U	0.060 U	--	--
140-140	299-W19-91 (140 ft)	N	4/1/87	0.20 =	0 U	--	--	0.030 =	0.030 =	--	--
145-145	299-W19-91 (145 ft)	N	4/1/87	0.30 =	0 U	--	--	0 U	0 U	--	--
150-150	299-W19-91 (150 ft)	N	4/1/87	0.65 =	0 U	--	--	-2.50E-01 U	0.25 U	--	--
299-W19-92											
5-5	299-W19-92 (5 ft)	N	4/1/87	0.33 =	0 U	--	--	-1.00E-01 U	0.010 U	--	--
11-11	299-W19-92 (11 ft)	N	4/1/87	0.75 =	0 U	--	--	0.090 =	0.090 =	--	--
15-15	299-W19-92 (15 ft)	N	4/1/87	0.35 =	0 U	--	--	0.040 =	0.040 =	--	--
20-20	299-W19-92 (20 ft)	N	4/1/87	0.33 =	0 U	--	--	0.070 =	0.070 =	--	--
25-25	299-W19-92 (25 ft)	N	4/1/87	0.33 =	0 U	--	--	0.040 =	0.040 =	--	--
30-30	299-W19-92 (30 ft)	N	4/1/87	0.31 =	0 U	--	--	0.010 =	0.010 =	--	--
35-35	299-W19-92 (35 ft)	N	4/1/87	0.31 =	0 U	--	--	-2.00E-02 U	0.020 U	--	--
37-37	299-W19-92 (37 ft)	N	4/1/87	0.55 =	0 U	--	--	0.040 =	0.040 =	--	--
40-40	299-W19-92 (40 ft)	N	4/1/87	0.23 =	0 U	--	--	-1.10E-01 U	0.11 U	--	--
45-45	299-W19-92 (45 ft)	N	4/1/87	0.35 =	0 U	--	--	0.010 =	0.010 =	--	--
50-50	299-W19-92 (50 ft)	N	4/1/87	0.45 =	0 U	--	--	0.090 =	0.090 =	--	--
55-55	299-W19-92 (55 ft)	N	4/1/87	0.10 =	0 U	--	--	0.020 =	0.020 =	--	--
60-60	299-W19-92 (60 ft)	N	4/1/87	0.55 =	0 U	--	--	0 U	0 U	--	--
65-65	299-W19-92 (65 ft)	N	4/1/87	0.27 =	0 U	--	--	0.22 =	0.22 =	--	--
70-70	299-W19-92 (70 ft)	N	4/1/87	0.55 =	0 U	--	--	0.23 =	0.23 =	--	--
75-75	299-W19-92 (75 ft)	N	4/1/87	0.55 =	0 U	--	--	-2.10E-01 U	0.020 U	--	--
80-80	299-W19-92 (80 ft)	N	4/1/87	0.35 =	0 U	--	--	0.16 =	0.16 =	--	--

Table A-18f. 216-U-14 Ditch Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Thorium-228 (pCi/g)	Thorium-228, Decayed (pCi/g)	Uranium (pCi/g)	Uranium, Decayed (pCi/g)	Uranium-235 (pCi/g)	Uranium-235, Decayed (pCi/g)	Uranium-238 (pCi/g)	Uranium-238, Decayed (pCi/g)
				CAS Number							
				14274-82-9	14274-82-9	--	--	15117-96-1	15117-96-1	7440-61-1	7440-61-1
85-85	299-W19-92 (85 ft)	N	4/1/87	0.95 =	0 U	--	--	0.090 =	0.090 =	--	--
90-90	299-W19-92 (90 ft)	N	4/1/87	0.85 =	0 U	--	--	0.23 =	0.23 =	--	--
95-95	299-W19-92 (95 ft)	N	4/1/87	0.55 =	0 U	--	--	0.010 =	0.010 =	--	--
100-100	299-W19-92 (100 ft)	N	4/1/87	0.30 =	0 U	--	--	-1.50E-01 U	0.15 U	--	--
105-105	299-W19-92 (105 ft)	N	4/1/87	0.21 =	0 U	--	--	-2.00E-02 U	0.020 U	--	--
110-110	299-W19-92 (110 ft)	N	4/1/87	0.35 =	0 U	--	--	-1.30E-01 U	0.13 U	--	--
115-115	299-W19-92 (115 ft)	N	4/1/87	0.45 =	0 U	--	--	-1.10E-01 U	0.11 U	--	--
120-120	299-W19-92 (120 ft)	N	4/1/87	0.11 =	0 U	--	--	-6.00E-02 U	0.060 U	--	--
125-125	299-W19-92 (125 ft)	N	4/1/87	0.35 =	0 U	--	--	-1.00E-01 U	0.10 U	--	--
130-130	299-W19-92 (130 ft)	N	4/1/87	0.29 =	0 U	--	--	0.020 =	0.020 =	--	--
135-135	299-W19-92 (135 ft)	N	4/1/87	0.35 =	0 U	--	--	-1.00E-01 U	0.10 U	--	--
140-140	299-W19-92 (140 ft)	N	4/1/87	0.45 =	0 U	--	--	-2.30E-01 U	0.23 U	--	--
145-145	299-W19-92 (145 ft)	N	4/1/87	0.13 =	0 U	--	--	0.020 =	0.020 =	--	--
150-150	299-W19-92 (150 ft)	N	4/1/87	0.45 =	0 U	--	--	0.030 =	0.030 =	--	--
299-W19-93											
5-5	299-W19-93 (5 ft)	N	4/1/87	0.35 =	0 U	--	--	0.13 =	0.13 =	--	--
10-10	299-W19-93 (10 ft)	N	4/1/87	0.12 =	0 U	--	--	0 U	0 U	--	--
15-15	299-W19-93 (15 ft)	N	4/1/87	0.11 =	0 U	--	--	-1.50E-01 U	0.15 U	--	--
20-20	299-W19-93 (20 ft)	N	4/1/87	0.11 =	0 U	--	--	0.080 =	0.080 =	--	--
25-25	299-W19-93 (25 ft)	N	4/1/87	0.55 =	0 U	--	--	0.12 =	0.12 =	--	--
30-30	299-W19-93 (30 ft)	N	4/1/87	0.30 =	0 U	--	--	-5.00E-02 U	0.050 U	--	--
35-35	299-W19-93 (35 ft)	N	4/1/87	0.45 =	0 U	--	--	-8.00E-02 U	0.080 U	--	--
40-40	299-W19-93 (40 ft)	N	4/1/87	0.16 =	0 U	--	--	0.010 =	0.010 =	--	--
45-45	299-W19-93 (45 ft)	N	4/1/87	0.19 =	0 U	--	--	-1.70E-01 U	0.17 U	--	--

Table A-18f. 216-U-14 Ditch Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Thorium-228 (pCi/g)	Thorium-228, Decayed (pCi/g)	Uranium (pCi/g)	Uranium, Decayed (pCi/g)	Uranium-235 (pCi/g)	Uranium-235, Decayed (pCi/g)	Uranium-238 (pCi/g)	Uranium-238, Decayed (pCi/g)
				CAS Number							
				14274-82-9	14274-82-9	--	--	15117-96-1	15117-96-1	7440-61-1	7440-61-1
50-50	299-W19-93 (50 ft)	N	4/1/87	0.14 =	0 U	--	--	-1.40E-01 U	0.14 U	--	--
55-55	299-W19-93 (55 ft)	N	4/1/87	0.33 =	0 U	--	--	-7.00E-02 U	0.070 U	--	--
60-60	299-W19-93 (60 ft)	N	4/1/87	0.45 =	0 U	--	--	0.060 =	0.060 =	--	--
65-65	299-W19-93 (65 ft)	N	4/1/87	0.27 =	0 U	--	--	-9.00E-02 U	0.090 U	--	--
70-70	299-W19-93 (70 ft)	N	4/1/87	0.45 =	0 U	--	--	-2.20E-01 U	0.22 U	--	--
75-75	299-W19-93 (75 ft)	N	4/1/87	0.75 =	0 U	--	--	0.040 =	0.040 =	--	--
80-80	299-W19-93 (80 ft)	N	4/1/87	0.45 =	0 U	--	--	-1.00E-02 U	0.010 U	--	--
85-85	299-W19-93 (85 ft)	N	4/1/87	0.45 =	0 U	--	--	0.040 =	0.040 =	--	--
90-90	299-W19-93 (90 ft)	N	4/1/87	0.33 =	0 U	--	--	-5.00E-02 U	0.050 U	--	--
95-95	299-W19-93 (95 ft)	N	4/1/87	0.35 =	0 U	--	--	-8.00E-02 U	0.080 U	--	--
100-100	299-W19-93 (100 ft)	N	4/1/87	0.35 =	0 U	--	--	-8.00E-02 U	0.080 U	--	--
105-105	299-W19-93 (105 ft)	N	4/1/87	0.28 =	0 U	--	--	-1.10E-01 U	0.11 U	--	--
110-110	299-W19-93 (110 ft)	N	4/1/87	0.45 =	0 U	--	--	-1.10E-01 U	0.11 U	--	--
115-115	299-W19-93 (115 ft)	N	4/1/87	0.45 =	0 U	--	--	-4.00E-02 U	0.040 U	--	--
120-120	299-W19-93 (120 ft)	N	4/1/87	0.45 =	0 U	--	--	-8.00E-02 U	0.080 U	--	--
299-W23-16											
-	299-W23-16 (EB)	N	4/1/93	--	--	--	--	--	--	0.010 =	0.010 =
5-5	299-W23-16 (5 ft)	N	4/1/93	--	--	--	--	--	--	0.80 =	0.80 =
10-10	299-W23-16 (10 ft)	N	4/1/93	--	--	--	--	--	--	0.19 =	0.19 =
20-20	299-W23-16 (20 ft)	N	4/1/93	--	--	--	--	--	--	0.90 =	0.90 =
25-25	299-W23-16 (25 ft)	N	4/1/93	--	--	--	--	--	--	0.13 =	0.13 =
30-30	299-W23-16 (30 ft)	N	4/1/93	--	--	--	--	--	--	0.15 =	0.15 =
40-40	299-W23-16 (40 ft)	N	4/1/93	--	--	--	--	--	--	0.15 =	0.15 =
50-50	299-W23-16 (50 ft)	N	4/1/93	--	--	--	--	--	--	113,000 =	113,000 =

Table A-18f. 216-U-14 Ditch Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Thorium-228 (pCi/g)	Thorium-228, Decayed (pCi/g)	Uranium (pCi/g)	Uranium, Decayed (pCi/g)	Uranium-235 (pCi/g)	Uranium-235, Decayed (pCi/g)	Uranium-238 (pCi/g)	Uranium-238, Decayed (pCi/g)
				CAS Number							
				14274-82-9	14274-82-9	--	--	15117-96-1	15117-96-1	7440-61-1	7440-61-1
135-135	299-W23-16 (135 ft)	N	4/1/93	--	--	--	--	--	--	0.020 =	0.020 =
154-154	299-W23-16 (154 ft)	N	4/1/93	--	--	--	--	--	--	0.50 =	0.50 =
200-200	299-W23-16 (200 ft)	N	4/1/93	--	--	--	--	--	--	67,000 =	67,000 =
299-W23-17											
5-5	299-23-17 (5 ft)	N	4/1/93	--	--	--	--	--	--	0.18 =	0.18 =
10-10	299-23-17 (10 ft)	N	4/1/93	--	--	--	--	--	--	0.12 =	0.12 =
20-20	299-23-17 (20 ft)	N	4/1/93	--	--	--	--	--	--	0.13 =	0.13 =
25-25	299-23-17 (25 ft)	N	4/1/93	--	--	--	--	--	--	0.50 =	0.50 =
25-25	299-23-17 (25 ft) FD	D	4/1/93	--	--	--	--	--	--	0.17 =	0.17 =
30-30	299-23-17 (30 ft)	N	4/1/93	--	--	--	--	--	--	0.050 =	0.050 =
40-40	299-23-17 (40 ft)	N	4/1/93	--	--	--	--	--	--	0.10 =	0.10 =
45-45	299-23-17 (45 ft)	N	4/1/93	--	--	--	--	--	--	0.11 =	0.11 =
135-135	299-23-17 (135 ft)	N	4/1/93	--	--	--	--	--	--	0.24 =	0.24 =
149-149	299-23-17 (149 ft)	N	4/1/93	--	--	--	--	--	--	0.22 =	0.22 =
200-200	299-23-17 (200 ft)	N	4/1/93	--	--	--	--	--	--	0.10 =	0.10 =
ETP-1											
9-9.5	B07CC7	N	6/26/93	--	--	188 =	188 =	--	--	--	--
Test Pit #1											
9-9.5	Test Pit #1 (West) (9.0-9.5 ft)	N	6/1/92	--	--	70 =	70 =	--	--	--	--
9.5-10	Test Pit #1 (West) (9.5-10.0 ft)	N	6/1/92	--	--	350 =	350 =	--	--	--	--
12-13	Test Pit #1 (West) (12.0-13 ft)	N	6/1/92	--	--	49 =	49 =	--	--	--	--

Table A-18f. 216-U-14 Ditch Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Thorium-228 (pCi/g)	Thorium-228, Decayed (pCi/g)	Uranium (pCi/g)	Uranium, Decayed (pCi/g)	Uranium-235 (pCi/g)	Uranium-235, Decayed (pCi/g)	Uranium-238 (pCi/g)	Uranium-238, Decayed (pCi/g)
				CAS Number							
				14274-82-9	14274-82-9	--	--	15117-96-1	15117-96-1	7440-61-1	7440-61-1
14-15	Test Pit #1 (West) (14.0-15 ft)	N	6/1/92	--	--	7.0 =	7.0 =	--	--	--	--
16-17	Test Pit #1 (West) (16.0-17 ft)	N	6/1/92	--	--	7.0 =	7.0 =	--	--	--	--
18-19	Test Pit #1 (West) (18.0-19 ft)	N	6/1/92	--	--	7.0 =	7.0 =	--	--	--	--
Test Pit #2											
9-9.5	Test Pit #2 (Center) (9.0-9.5 ft)	N	6/1/92	--	--	14 =	14 =	--	--	--	--
9.5-10	Test Pit #2 (Center) (9.5-10.0 ft)	N	6/1/92	--	--	4.2 =	4.2 =	--	--	--	--
12-13	Test Pit #2 (Center) (12.0-13 ft)	N	6/1/92	--	--	2.8 =	2.8 =	--	--	--	--
14-15	Test Pit #2 (Center) (14.0-15 ft)	N	6/1/92	--	--	4.2 =	4.2 =	--	--	--	--
16-17	Test Pit #2 (Center) (16.0-17 ft)	N	6/1/92	--	--	2.8 =	2.8 =	--	--	--	--
18-19	Test Pit #2 (Center) (18.0-19 ft)	N	6/1/92	--	--	5.6 =	5.6 =	--	--	--	--
Test Pit #3											
9-9.5	Test Pit #3 (East) (9.0-9.5 ft)	N	6/1/92	--	--	7.0 =	7.0 =	--	--	--	--
9.5-10	Test Pit #3 (East) (9.5-10.0 f)	N	6/1/92	--	--	35 =	35 =	--	--	--	--
12-13	Test Pit #3 (East) (12.0-13 ft)	N	6/1/92	--	--	3.5 =	3.5 =	--	--	--	--
14-15	Test Pit #3 (East) (14.0-15 ft)	N	6/1/92	--	--	4.2 =	4.2 =	--	--	--	--

Table A-18f. 216-U-14 Ditch Radionuclides Analytical Data. (9 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Thorium-228 (pCi/g)	Thorium-228, Decayed (pCi/g)	Uranium (pCi/g)	Uranium, Decayed (pCi/g)	Uranium-235 (pCi/g)	Uranium-235, Decayed (pCi/g)	Uranium-238 (pCi/g)	Uranium-238, Decayed (pCi/g)
				CAS Number							
				14274-82-9	14274-82-9	--	--	15117-96-1	15117-96-1	7440-61-1	7440-61-1
16-17	Test Pit #3 (East) (16.0-17 ft)	N	6/1/92	--	--	3.5 =	3.5 =	--	--	--	--
18-19	Test Pit #3 (East) (18.0-19 ft)	N	6/1/92	--	--	3.5 =	3.5 =	--	--	--	--

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed
= Detected

Table A-19a. 216-U-14 Ditch Semivolatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	1,2,4-Trichloro-benzene (mg/kg)	1,2-Dichloro-benzene (mg/kg)	1,3-Dichloro-benzene (mg/kg)	1,4-Dichloro-benzene (mg/kg)	2,4,5-Trichloro-phenol (mg/kg)	2,4,6-Trichloro-phenol (mg/kg)	2,4-D (mg/kg)	2,4-Dichloro-phenol (mg/kg)	2,4-Dimethyl-phenol (mg/kg)	2,4-Dinitro-phenol (mg/kg)	2,4-Dinitro-toluene (mg/kg)	2,6-Dichloro-phenol (mg/kg)
				CAS Number											
				120-82-1	95-50-1	541-73-1	106-46-7	95-95-4	88-06-2	94-75-7	120-83-2	105-67-9	51-28-5	121-14-2	87-65-0
299-W18-251															
25-25	B08CC8	N	4/1/93	0.01U	0.01U	0.01U	0.005U	0.01U	0.01U	0.01U	0.01U	0.01U	0.05U	0.01U	0.01U
46-46	B08CD0	N	4/1/93	0.01U	0.01U	0.01U	0.005U	0.01U	0.01U	0.01U	0.01U	0.01U	0.05U	0.01U	0.01U
97.5-97.5	B08CC0	N	4/6/93	0.01U	0.01U	0.01U	0.005U	0.01U	0.01U	0.01U	0.01U	0.01U	0.05U	0.01U	0.01U
149-149	B08CD3	N	4/13/93	--	--	--	0.005U	--	--	0.01U	--	--	--	--	--
299-W23-16															
25-25	B08CF5	N	4/20/93	--	--	--	--	--	--	0.01U	--	--	--	--	--
50-50	B08CF6	N	4/21/93	--	--	--	--	--	--	0.01U	--	--	--	--	--
299-W23-17															
25-25	B08CD7	N	4/12/93	--	--	--	--	--	--	0.01U	--	--	--	--	--
45-45	B08CF3	N	4/13/93	--	--	--	0.005U	--	--	0.01U	--	--	--	--	--
45-45	B08CF4	N	4/13/93	--	--	--	0.005U	--	--	0.01U	--	--	--	--	--

CAS = Chemical Abstracts Service
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ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed

Table A-19b. 216-U-14 Ditch Semivolatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	2,6-Dinitro-toluene (mg/kg)	2-Chloro-naph-thalene (mg/kg)	2-Chloro-phenol (mg/kg)	2-Methyl-naphthalene (mg/kg)	2-Methyl-phenol (cresol, o-) (mg/kg)	2-Naph-thylamine (mg/kg)	2-Nitro-aniline (mg/kg)	2-Nitro-phenol (mg/kg)	2-Picoline (mg/kg)	2-sec-Butyl-4,6-dinitro-phenol (mg/kg)	3,3'-Dichloro-benzidine (mg/kg)	3,3'-Dimethyl-benzidine (mg/kg)
				CAS Number											
				606-20-2	91-58-7	95-57-8	91-57-6	95-48-7	91-59-8	88-74-4	88-75-5	109-06-8	88-85-7	91-94-1	119-93-7
299-W18-251															
25-25	B08CC8	N	4/1/93	0.01U	0.01 U	0.01U	0.01U	0.01U	0.01U	0.05U	0.01U	--	0.001U	0.02U	0.01U
46-46	B08CD0	N	4/1/93	0.01U	0.01 U	0.01U	0.01U	0.01U	0.01U	0.05U	0.01U	--	0.001U	0.02U	0.01U
97.5-97.5	B08CC0	N	4/6/93	0.01U	0.01 U	0.01U	0.01U	0.01U	0.01U	0.05U	0.01U	--	0.001U	0.02U	0.01U
149-149	B08CD3	N	4/13/93	--	--	--	--	--	--	--	--	0.01U	0.001U	--	--
299-W23-16															
25-25	B08CF5	N	4/20/93	--	--	--	--	--	--	--	--	--	0.001U	--	--
50-50	B08CF6	N	4/21/93	--	--	--	--	--	--	--	--	--	0.001U	--	--
299-W23-17															
25-25	B08CD7	N	4/12/93	--	--	--	--	--	--	--	--	--	0.001U	--	--
45-45	B08CF3	N	4/13/93	--	--	--	--	--	--	--	--	0.01U	0.001U	--	--
45-45	B08CF4	N	4/13/93	--	--	--	--	--	--	--	--	0.01U	0.001U	--	--

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed

Table A-19c. 216-U-14 Ditch Semivolatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	3-Methyl-chol-anthrene (mg/kg)	3-Nitro-aniline (mg/kg)	4,6-Dinitro-2-methyl-phenol (mg/kg)	4-Amino-biphenyl (mg/kg)	4-Bromo-phenyl-phenyl ether (mg/kg)	4-Chloro-3-methyl-phenol (mg/kg)	4-Chloro-aniline (mg/kg)	4-Chloro-phenyl-phenyl-ether (mg/kg)	4-Methyl-phenol (cresol, p-) (mg/kg)	4-Nitro-aniline (mg/kg)	4-Nitro-phenol (mg/kg)	4-Nitro-quinoline-1-oxide (mg/kg)
				CAS Number											
				56-49-5	99-09-2	534-52-1	92-67-1	--	59-50-7	106-47-8	7005-72-3	106-44-5	100-01-6	100-02-7	56-57-5
299-W18-251															
25-25	B08CC8	N	4/1/93	0.01U	0.05U	0.05U	0.01U	0.01U	0.02U	0.02U	0.01U	0.01U	0.05U	0.05U	0.01U
46-46	B08CD0	N	4/1/93	0.01U	0.05U	0.05U	0.01U	0.01U	0.02U	0.02U	0.01U	0.01U	0.05U	0.05U	0.01U
97.5-97.5	B08CC0	N	4/6/93	0.01U	0.05U	0.05U	0.01U	0.01U	0.02U	0.02U	0.01U	0.01U	0.05U	0.05U	0.01U

BHC = benzene hexachloride
CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control

Table A-19d. 216-U-14 Ditch Semivolatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	7,12-Dimethyl-benz[a] anthracene (mg/kg)	Acenaph-thene (mg/kg)	Acenaph-thylene (mg/kg)	Aniline (mg/kg)	Anthracene (mg/kg)	Benzo (a) anth-racene (mg/kg)	Benzo (a) pyrene (mg/kg)	Benzo (b) fluor-anthene (mg/kg)	Benzo (ghi) perylene (mg/kg)	Benzo (k) fluor-anthene (mg/kg)	Benzyl alcohol (mg/kg)	Bis(2-Chloro-ethoxy) methane (mg/kg)
				CAS Number											
				57-97-6	83-32-9	208-96-8	62-53-3	120-12-7	56-55-3	50-32-8	205-99-2	191-24-2	207-08-9	100-51-6	111-91-1
299-W18-251															
25-25	B08CC8	N	4/1/93	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.02U	0.01U
46-46	B08CD0	N	4/1/93	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.02U	0.01U
97.5-97.5	B08CC0	N	4/6/93	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.02U	0.01U

BHC = benzene hexachloride
CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed

Table A-19e. 216-U-14 Ditch Semivolatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Bis(2-chloro-ethyl) ether (mg/kg)	Bis(2-chloro-isopropyl) ether (mg/kg)	Bis (2-ethylhexyl) phthalate (mg/kg)	Butyl-benzyl-phthalate (mg/kg)	Chrysene (mg/kg)	Di-n-butyl-phthalate (mg/kg)	Di-n-octyl-phthalate (mg/kg)	Diallate (mg/kg)	Dibenz (a,h) anthra-cene (mg/kg)	Dibenzo-furan (mg/kg)	Diethyl-phthalate (mg/kg)	Di-methoate (mg/kg)
				CAS Number											
				111-44-4	108-60-1	117-81-7	85-68-7	218-01-9	84-74-2	117-84-0	2303-16-4	53-70-3	132-64-9	84-66-2	60-51-5
299-W18-251															
25-25	B08CC8	N	4/1/93	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
46-46	B08CD0	N	4/1/93	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
97.5-97.5	B08CC0	N	4/6/93	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control

Table A-19f. 216-U-14 Ditch Semivolatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Dimethyl phthalate (mg/kg)	Diphenyl-amine (mg/kg)	Famphur (mg/kg)	Fluor-anthene (mg/kg)	Fluorene (mg/kg)	Hexa-chloro-benzene (mg/kg)	Hexa-chloro-butadiene (mg/kg)	Hexachloro-cyclopenta-diene (mg/kg)	Hexa-chloro-ethane (mg/kg)	Hexa-chloro-phene (mg/kg)	Hexa-chloro-propene (mg/kg)	Indeno (1,2,3-cd) pyrene (mg/kg)
				CAS Number											
				131-11-3	122-39-4	52-85-7	206-44-0	86-73-7	118-74-1	87-68-3	77-47-4	67-72-1	70-30-4	1888-71-7	193-39-5
299-W18-251															
25-25	B08CC8	N	4/1/93	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
46-46	B08CD0	N	4/1/93	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U
97.5-97.5	B08CC0	N	4/6/93	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control

Table A-19g. 216-U-14 Ditch Semivolatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Isophorone (mg/kg)	N-Nitro-*sodi-n*-butyl-amine (mg/kg)	N-Nitro-*sodi-n*-dipropyl-amine (mg/kg)	N-Nitro-sodi-ethyl-amine (mg/kg)	N-Nitro-sodi-methyl-amine (mg/kg)	N-Nitro-sodi-phenyl-amine (mg/kg)	N-Nitro-somethyl-ethyl-amine (mg/kg)	N-Nitroso-morpholine (mg/kg)	N-Nitro-sopi-peridine (mg/kg)	Naph-thalene (mg/kg)	Nitro-benzene (mg/kg)	Penta-chloro-benzene (mg/kg)
				CAS Number											
				78-59-1	924-16-3	621-64-7	55-18-5	62-75-9	86-30-6	10595-95-6	59-89-2	100-75-4	91-20-3	98-95-3	608-93-5
299-W18-251															
25-25	B08CC8	N	4/1/93	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01 U	0.01U	0.01U
46-46	B08CD0	N	4/1/93	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01 U	0.01U	0.01U
97.5-97.5	B08CC0	N	4/6/93	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01U	0.01 U	0.01U	0.01U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control

Table A-19h. 216-U-14 Ditch Semivolatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Penta-chloro-ethane (mg/kg)	Penta-chloro-nitro-benzene (mg/kg)	Penta-chloro-phenol (mg/kg)	Phen-acetin (mg/kg)	Phen-anthrene (mg/kg)	Phenol (mg/kg)	Pronamide (mg/kg)	Pyrene (mg/kg)	Pyridine (mg/kg)	Tributyl phosphate (mg/kg)
				CAS Number									
				76-01-7	82-68-8	87-86-5	62-44-2	85-01-8	108-95-2	23950-58-5	129-00-0	110-86-1	126-73-8
299-W18-251													
25-25	B08CC8	N	4/1/93	--	0.01U	0.05U	0.01U	0.01U	0.01U	0.01U	0.01U	--	0.01U
46-46	B08CD0	N	4/1/93	--	0.01U	0.05U	0.01U	0.01U	0.01U	0.01U	0.01U	--	0.01U
97.5-97.5	B08CC0	N	4/6/93	--	0.01U	0.05U	0.01U	0.01U	0.01U	0.01U	0.01U	--	0.01U
149-149	B08CD3	N	4/13/93	0.01U	--	--	--	--	--	--	--	0.01U	--
299-W23-17													
45-45	B08CF3	N	4/13/93	0.01U	--	--	--	--	--	--	--	0.01U	--
45-45	B08CF4	N	4/13/93	0.01U	--	--	--	--	--	--	--	0.01U	--

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control

Table A-20a. 216-U-14 Ditch Volatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	0,0,0-Triethyl phos-phorothio (mg/kg)	0,0-Diethyl O-pyrazinyl phos-phorothioate (mg/kg)	1,1,1,2-Tetra-chloro-ethane (mg/kg)	1,1,1-Tri-chloro-ethane (mg/kg)	1,1,2,2-Tetra-chloro-ethane (mg/kg)	1,1,2-Trichloro-ethane (mg/kg)	1,1-Dichloro-ethane (mg/kg)	1,1-Dichloro-ethene (mg/kg)	1,2,3-Trichloro-propane (mg/kg)	1,2,4,5-Tetrachloro-benzene (mg/kg)	1,2-Dibromo-3-chloro-propane (mg/kg)
				CAS Number										
				126-68-1	297-97-2	630-20-6	71-55-6	79-34-5	79-00-5	75-34-3	75-35-4	96-18-4	95-94-3	96-12-8
299-W18-251														
25-25	B08CC8	N	4/1/93	0.01U	0.01U	--	--	--	--	--	--	--	0.01U	--
46-46	B08CD0	N	4/1/93	0.01U	0.01U	--	--	--	--	--	--	--	0.01U	--
97.5-97.5	B08CC0	N	4/6/93	0.01U	0.01U	--	--	--	--	--	--	--	0.01U	--
149-149	B08CD3	N	4/13/93	--	--	0.005U	0.005U	0.005U	0.005U	0.005U	--	0.005U	--	0.005U
299-W23-17														
25-25	B08CD7	N	4/12/93	--	--	--	--	--	--	--	--	--	--	--
45-45	B08CF3	N	4/13/93	--	--	0.005U	0.005U	0.005U	0.005U	0.005U	--	0.005U	--	0.005U
45-45	B08CF4	N	4/13/93	--	--	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	--	0.005U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed

Table A-20b. 216-U-14 Ditch Volatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	1,2-Dibromo-ethane (mg/kg)	1,2-Dichloro-ethane (mg/kg)	1,2-Dichloro-propane (mg/kg)	1,4-Dichloro-2-butene (mg/kg)	1,4-Dioxane (mg/kg)	1,4-Naphtho-quinone (mg/kg)	1-Naphthyl-amine (mg/kg)	2,3,4,6-Tetra-chloro-phenol (mg/kg)	2,4,5-T (mg/kg)	2,4,5-TP (mg/kg)	2-Acetyl-amino-fluorene (mg/kg)
				CAS Number										
				106-93-4	107-06-2	78-87-5	764-41-0	123-91-1	130-15-4	134-32-7	58-90-2	93-76-5	93-72-1	53-96-3
299-W18-251														
25-25	B08CC8	N	4/1/93	--	--	--	--	--	0.01U	0.01U	0.01U	0.002U	0.002U	0.01U
46-46	B08CD0	N	4/1/93	--	--	--	--	--	0.01U	0.01U	0.01U	0.002U	0.002U	0.01U
97.5-97.5	B08CC0	N	4/6/93	--	--	--	--	--	0.01U	0.01U	0.01U	0.002U	0.002U	0.01U
149-149	B08CD3	N	4/13/93	0.005U	0.005U	0.005U	0.005U	0.2U	--	--	--	0.002U	0.002U	--
299-W23-16														
25-25	B08CF5	N	4/20/93	--	--	--	--	--	--	--	--	0.002U	0.002U	--
50-50	B08CF6	N	4/21/93	--	--	--	--	--	--	--	--	0.002U	0.002U	--
299-W23-17														
25-25	B08CD7	N	4/12/93	--	--	--	--	--	--	--	--	0.002U	0.002U	--
45-45	B08CF3	N	4/13/93	0.005U	0.005U	0.005U	0.005U	0.2U	--	--	--	0.002U	0.002U	--
45-45	B08CF4	N	4/13/93	0.005U	0.005U	0.005U	0.005U	0.2U	--	--	--	0.002U	0.002U	--

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed

Table A-20c. 216-U-14 Ditch Volatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	2-Butanone (mg/kg)	2-Hexanone (mg/kg)	Acetone (mg/kg)	Aceto-nitrile (mg/kg)	Aceto-phenone (mg/kg)	Acrolein (mg/kg)	Acrylon-itrile (mg/kg)	Allyl chloride (mg/kg)	Alpha, Alpha-Dimethyl-phenethy (mg/kg)	Benzene (mg/kg)
				CAS Number									
				78-93-3	591-78-6	67-64-1	75-05-8	98-86-2	107-02-8	107-13-1	107-05-1	122-09-8	71-43-2
299-W18-251													
25-25	B08CC8	N	4/1/93	--	--	--	--	0.01U	--	--	--	0.01U	--
46-46	B08CD0	N	4/1/93	--	--	--	--	0.01U	--	--	--	0.01U	--
97.5-97.5	B08CC0	N	4/6/93	--	--	--	--	0.01U	--	--	--	0.01U	--
149-149	B08CD3	N	4/13/93	0.039=	0.05U	0.016=	0.2U	--	0.005U	0.005U	0.1U	--	0.005U
299-W23-17													
45-45	B08CF3	N	4/13/93	0.033=	0.05U	0.1U	0.2U	--	0.005U	0.005U	0.1U	--	0.005U
45-45	B08CF4	N	4/13/93	0.047=	0.05U	0.1U	0.2U	--	0.005U	0.005U	0.1U	--	0.005U
ETP-3													
11-13	B07CC1	N	6/26/93	--	--	0.012L	--	--	--	--	--	--	--

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed

Table A-20d. 216-U-14 Ditch Volatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	BromoDichloro-methane (mg/kg)	Bromo-form (mg/kg)	Bromo-methane (mg/kg)	Carbon disulfide (mg/kg)	Carbon tetrachloride (mg/kg)	Chloro-benzene (mg/kg)	Chloro-benzilate (mg/kg)	Chloro-ethane (mg/kg)	Chloro-form (mg/kg)	Chloro-prene (mg/kg)
				CAS Number									
				75-27-4	75-25-2	74-83-9	75-15-0	56-23-5	108-90-7	510-15-6	75-00-3	67-66-3	126-99-8
299-W18-251													
25-25	B08CC8	N	4/1/93	--	--	--	--	--	--	0.01U	--	--	--
46-46	B08CD0	N	4/1/93	--	--	--	--	--	--	0.01U	--	--	--
97.5-97.5	B08CC0	N	4/6/93	--	--	--	--	--	--	0.01U	--	--	--
149-149	B08CD3	N	4/13/93	0.005U	0.005U	0.01U	0.005U	0.005U	0.005U	--	0.01U	0.005U	0.005U
299-W23-17													
45-45	B08CF3	N	4/13/93	0.005U	0.005U	0.01U	0.005U	0.005U	0.005U	--	0.01U	0.005U	0.005U
45-45	B08CF4	N	4/13/93	0.005U	0.005U	0.01U	0.005U	0.005U	0.005U	--	0.01U	0.005U	0.005U

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed

Table A-20e. 216-U-14 Ditch Volatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	cis-1,3-Dichloro-propene (mg/kg)	Dibromo-chloro-methane (mg/kg)	Dibromo-methane (mg/kg)	Dichloro-difluoro-methane (mg/kg)	Ethyl cyanide (mg/kg)	Ethyl metha-crylate (mg/kg)	Ethyl methane-sulfonate (mg/kg)	Ethyl-benzene (mg/kg)	Iodo-methane (mg/kg)	Isobutyl alcohol (mg/kg)	Isosafrole (mg/kg)
				CAS Number										
				10061-01-5	124-48-1	74-95-3	75-71-8	107-12-0	97-63-2	62-50-0	100-41-4	74-88-4	78-83-1	120-58-1
299-W18-251														
25-25	B08CC8	N	4/1/93	--	--	--	--	--	--	0.01U	--	--	--	0.01U
46-46	B08CD0	N	4/1/93	--	--	--	--	--	--	0.01U	--	--	--	0.01U
97.5-97.5	B08CC0	N	4/6/93	--	--	--	--	--	--	0.01U	--	--	--	0.01U
149-149	B08CD3	N	4/13/93	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	--	0.005U	0.005U	0.2U	--
299-W23-17														
45-45	B08CF3	N	4/13/93	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	--	0.005U	0.005U	0.2U	--
45-45	B08CF4	N	4/13/93	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	--	0.005U	0.005U	0.2U	--

CAS = Chemical Abstracts Service
HEIS = Hanford Environmental Information System
ID = Identification
QA/QC = Quality Assurance/Quality Control
- Not analyzed

Table A-20f. 216-U-14 Ditch Volatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	m-Cresol (mg/kg)	m-dinitro-benzene (mg/kg)	m-Xylene (mg/kg)	Metha-crylonitrile (mg/kg)	Metha-pyrilene (mg/kg)	Methyl chloride (mg/kg)	Methyl metha-crylate (mg/kg)	Methyl-methane-sulfonate (mg/kg)	Methylene chloride (mg/kg)	Nitrosopyr-rolidine (mg/kg)	o-Toluidine (mg/kg)
				CAS Number										
				108-39-4	--	108-38-3	126-98-7	91-80-5	74-87-3	80-62-6	66-27-3	75-09-2	930-55-2	95-53-4
299-W18-251														
25-25	B08CC8	N	4/1/93	0.01U	0.01U	--	--	0.01U	--	--	0.01U	--	0.01U	0.01U
46-46	B08CD0	N	4/1/93	0.01U	0.01U	--	--	0.01U	--	--	0.01U	--	0.01U	0.01U
97.5-97.5	B08CC0	N	4/6/93	0.01U	0.01U	--	--	0.01U	--	--	0.01U	--	0.01U	0.01U
149-149	B08CD3	N	4/13/93	--	--	0.005U	0.005U	--	0.01U	0.005U	--	0.002B	--	--
299-W23-17														
45-45	B08CF3	N	4/13/93	--	--	0.005U	0.005U	--	0.01U	0.005U	--	0.002B	--	--
45-45	B08CF4	N	4/13/93	--	--	0.005U	0.005U	--	0.01U	0.005U	--	0.003B	--	--
EPT-1														
11-13	B07CD3	N	6/26/93	--	--	--	--	--	--	--	--	0.001BL	--	--
15-17	B07CD5	N	6/26/93	--	--	--	--	--	--	--	--	0.001BL	--	--
EPT-2														
12-13	B07CC6	N	6/26/93	--	--	--	--	--	--	--	--	0.001BL	--	--
12-13	B07CC9	D	6/26/93	--	--	--	--	--	--	--	--	0.001BL	--	--
15-17	B07CD1	N	6/26/93	--	--	--	--	--	--	--	--	0.001BL	--	--
EPT-3														
11-13	B07CC1	N	6/26/93	--	--	--	--	--	--	--	--	0.002BL	--	--
18-19	B07CB9	N	6/26/93	--	--	--	--	--	--	--	--	0.001BL	--	--

Table A-20g. 216-U-14 Ditch Volatile Organic Compounds Analytical Data. (2 Pages)

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	o-Xylene (mg/kg)	p-Dimethyl-aminoazo-benzene (mg/kg)	p-Phenylene-diamine (mg/kg)	p-Xylene (mg/kg)	Parathion (mg/kg)	Safrole (mg/kg)	Styrene (mg/kg)	sym-Trinitro-benzene (mg/kg)	Tetrachloro-ethene (mg/kg)	Tetraethyl-dithiopyro-phosphate (mg/kg)
				CAS Number									
				95-47-6	60-11-7	106-50-3	106-42-3	56-38-2	94-59-7	100-42-5	99-35-4	127-18-4	3689-24-5
299-W18-251													
25-25	B08CC8	N	4/1/93	--	0.01U	0.01 U	--	0.01U	0.01U	--	0.01U	--	0.01U
46-46	B08CD0	N	4/1/93	--	0.01U	0.01 U	--	0.01U	0.01U	--	0.01U	--	0.01U
97.5-97.5	B08CC0	N	4/6/93	--	0.01U	0.01 U	--	0.01U	0.01U	--	0.01U	--	0.01U
149-149	B08CD3	N	4/13/93	0.005U	--	--	0.005U	--	--	0.005U	--	0.005U	--
299-W23-17													
45-45	B08CF3	N	4/13/93	0.005U	--	--	0.005U	--	--	0.005U	--	0.005U	--
45-45	B08CF4	N	4/13/93	0.005U	--	--	0.005U	--	--	0.005U	--	0.005U	--

Table A-20h. 216-U-14 Ditch Volatile Organic Compounds Analytical Data.

Intervals (ft)	HEIS Number/ Sample ID	QAQC Type	Date	Tetrahydro-furan (mg/kg)	Toluene (mg/kg)	trans-1,2-Dichloro-ethylene (mg/kg)	trans-1,3-Dichloro-propene (mg/kg)	Trichloro-ethene (mg/kg)	Trichloro-monofluoro-methane (mg/kg)	Vinyl acetate (mg/kg)	Vinyl chloride (mg/kg)
				CAS Number							
				109-99-9	108-88-3	156-60-5	10061-02-6	79-01-6	75-69-4	108-05-4	75-01-4
299-W18-251											
149-149	B08CD3	N	4/13/93	0.021=	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.01U
299-W23-17											
45-45	B08CF3	N	4/13/93	0.018=	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.01U
45-45	B08CF4	N	4/13/93	0.025=	0.005U	0.005U	0.005U	0.005U	0.005U	0.005U	0.01U

APPENDIX B

PHYSICAL PROPERTY DATA

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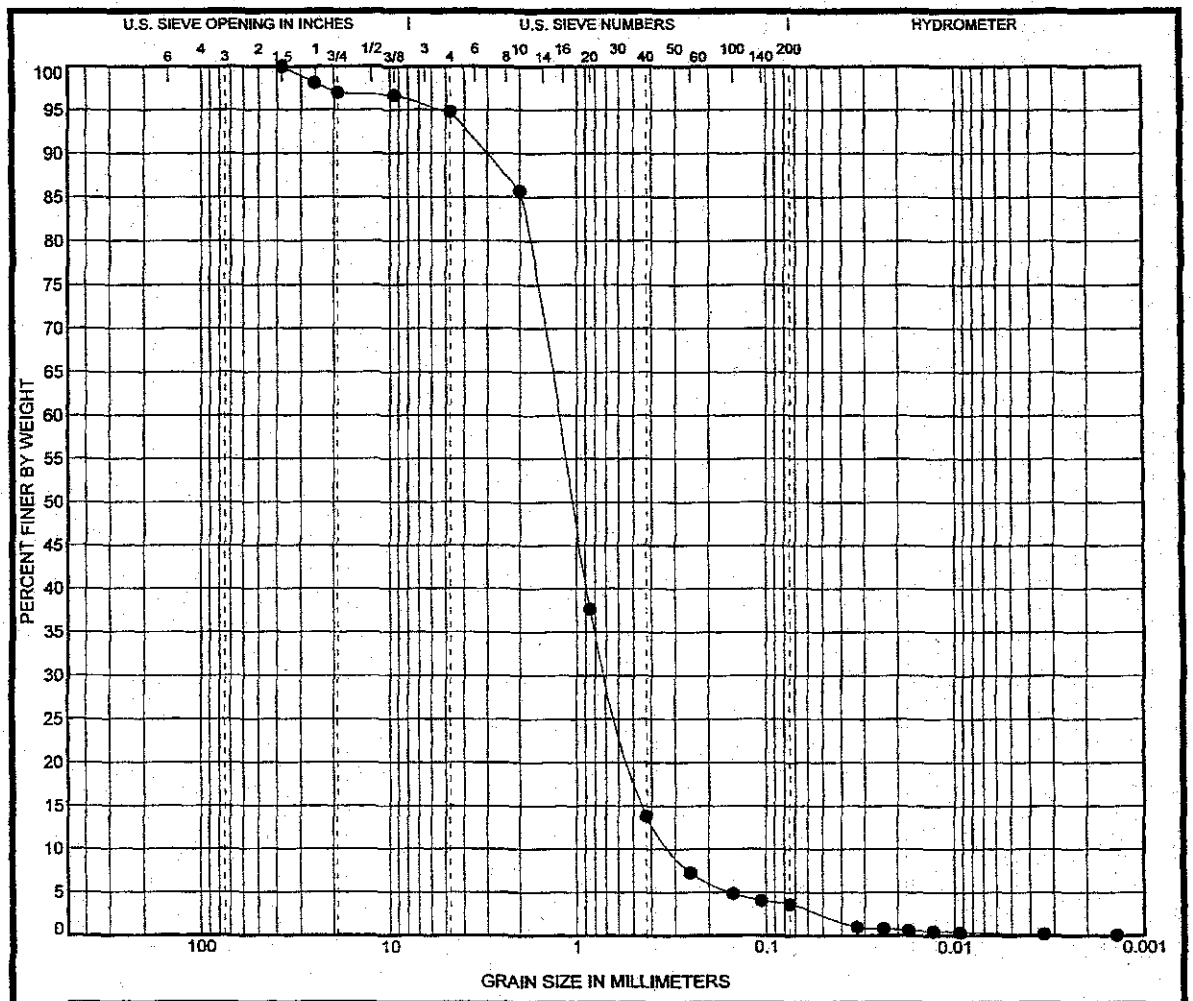
Figure B-1. Grain Size Distribution for Sample B14DM3.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification		Classification	LL	PL	PI	Cc	Cu
● 0205001-001	0.0	Soil				1.18	4.07
B14DM3							

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 0205001-001	0.0	37.5	1.266	0.681	0.311	5.2	91.2	3.4	0.3

US GRAIN SIZE BECHTEL.GPJ US LAB.GDT 6/17/02

MAXIM TECHNOLOGIES INC.
Maxim Technologies, Inc.
1908 Innerbelt Business Center Drive
St. Louis, Missouri 63114
Telephone: 314-426-0880
Fax: 314-426-4212

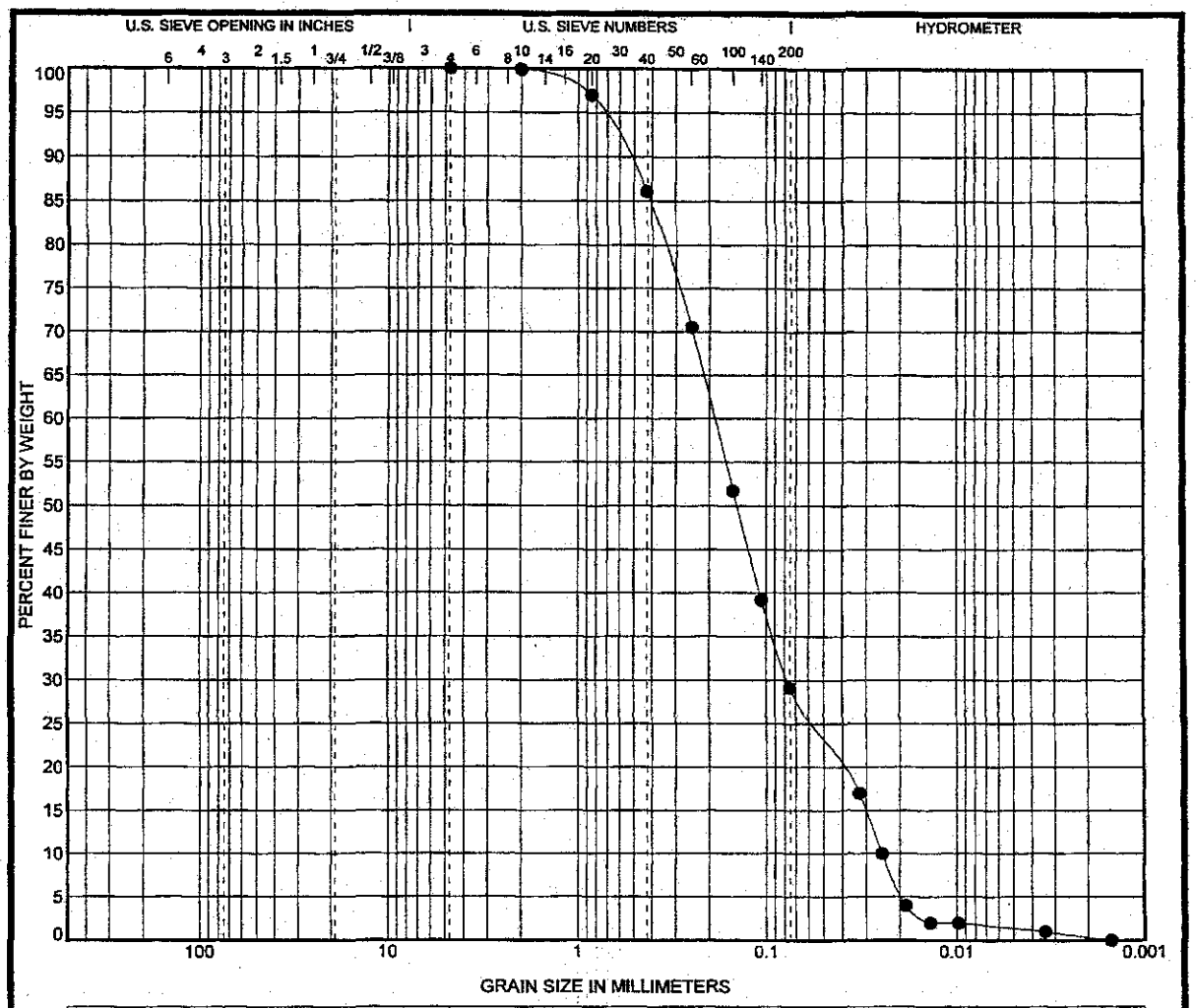
GRAIN SIZE DISTRIBUTION

Project: Eberline Services

Location:

Number: 9905093

Figure B-2. Grain Size Distribution for Sample B14DM4.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Specimen Identification		Classification	LL	PL	PI	Cc	Cu
●	0205001-002	0.0	Soil				1.28	7.54
	B14DM4							

	Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	0205001-002	0.0	4.75	0.188	0.077	0.025	0.0	70.9	27.7	1.4

US GRAIN SIZE BECHTEL.GPJ US LAB.GDT 6/17/02

MAXIM TECHNOLOGIES INC.

Maxim Technologies, Inc.
1908 Innerbelt Business Center Drive
St. Louis, Missouri 63114
Telephone: 314-426-0880
Fax: 314-426-4212

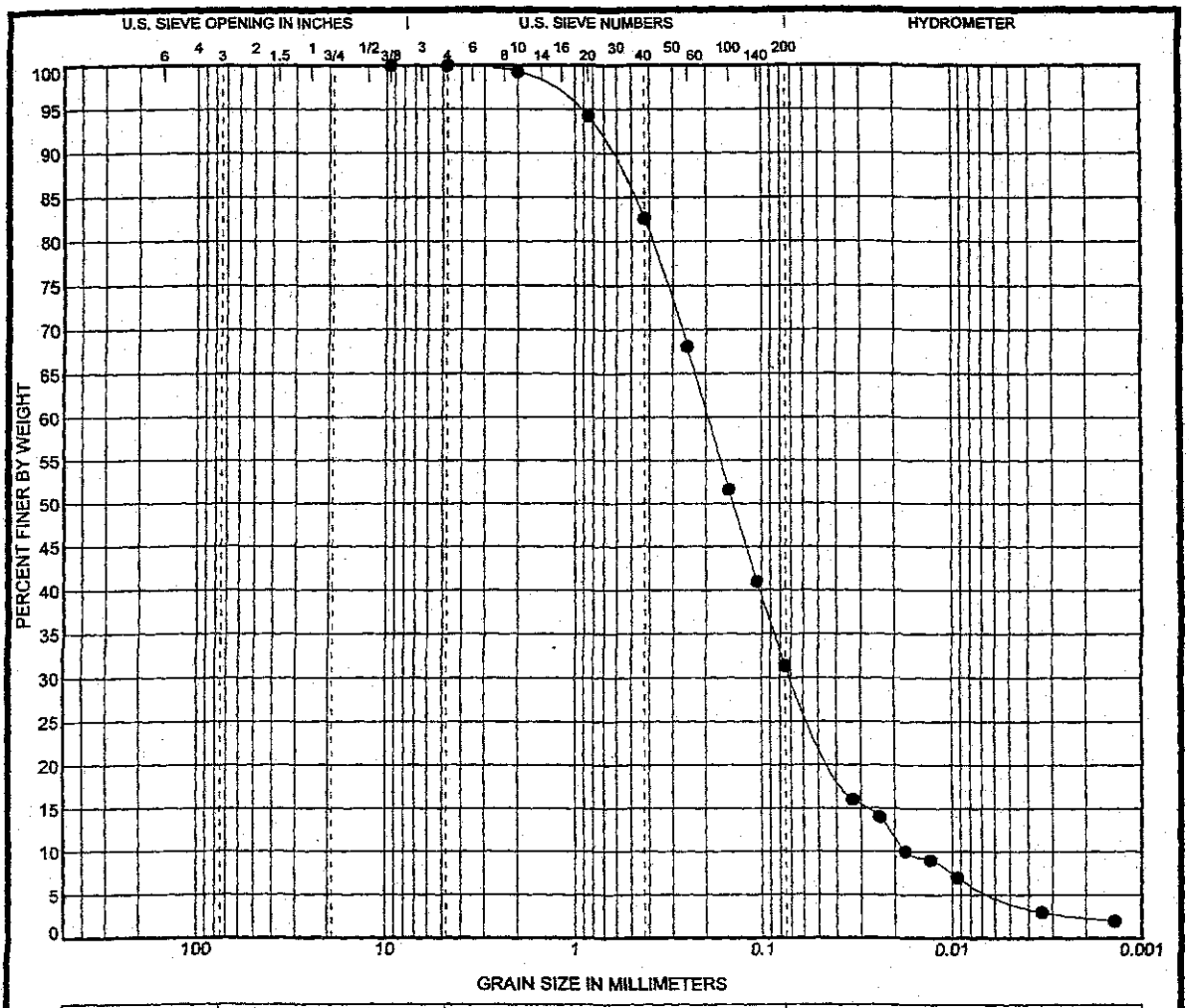
GRAIN SIZE DISTRIBUTION

Project: Eberline Services

Location:

Number: 9905093

Figure B-3. Grain Size Distribution for Sample B14DM5.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Specimen Identification		Classification	LL	PL	PI	Cc	Cu
●	0205002-001	0.0	Soil				1.43	11.06
	B14DM5							

	Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	0205002-001	0.0	9.52	0.195	0.07	0.018	0.0	68.6	26.8	4.5

US GRAIN SIZE BECHTEL.GPJ US LAB.GDT 6/17/02

MAXIM TECHNOLOGIES INC

Maxim Technologies, Inc.
1908 Innerbelt Business Center Drive
St. Louis, Missouri 63114
Telephone: 314-426-0880
Fax: 314-426-4212

GRAIN SIZE DISTRIBUTION

Project: Eberline Services

Location:

Number: 9905093

Table B-1. Moisture Content Results.

Sample Number	Container Number	Container Weight (g)	Wet Sample + Container	Dry Sample + Container	Moisture Content (%)
B14DM3	1	10.93	50.70	49.44	3.3
B14DM4	2	11.88	43.19	41.32	6.4
B14DM5	1	11.84	43.63	40.95	9.2

APPENDIX C

PIPELINE INVESTIGATION DATA

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Figure C-1. Data Sheet for Sample B14PL7.

E B E R L I N E S E R V I C E S / R I C H M O N D

SAMPLE DELIVERY GROUP H1793

R205155-01 **B14PL7**

D A T A S H E E T

SDG	7288	Client/Case no	Hanford SDG H1793
Contact	Melissa C. Mannion	Contract	No. 630
Lab sample id	R205155-01	Client sample id	B14PL7
Dept sample id	7288-001	Location/Matrix	200 West FILTERS
Received	05/30/02	Collected/Weight	05/21/02 08:45 0.54 g
		Custody/SAF No	B02-056-02 B02-056

ANALYTE	CAS NO	RESULT pCi/smpl	2σ ERR (COUNT)	MDA pCi/smpl	RDL pCi/smpl	QUALI-FIERS	TEST
Neptunium 237	13994-20-2	0	1.5	3.6	1.0	U	NP
Plutonium 238	13981-16-3	23.5	10	9.5	1.0		PU
Plutonium 239/240	PU-239/240	1210	110	9.5	1.0		PU
Curium 243/244	CM-243/244	-2.47	4.9	12	1.0	U	TP
Americium 241	14596-10-2	226	38	9.4	1.0		TP
Potassium 40	13966-00-2	U		34		U	GAM
Cobalt 60	10198-40-0	U		3.7	0.050	U	GAM
Cesium 137	10045-97-3	U		3.0	0.10	U	GAM
Radium 226	13982-63-3	U		5.4	0.10	U	GAM
Radium 228	15262-20-1	U		14	0.20	U	GAM
Europium 152	14683-23-9	U		5.5	0.10	U	GAM
Europium 154	15585-10-1	U		11	0.10	U	GAM
Europium 155	14391-16-3	U		2.9	0.10	U	GAM
Thorium 228	14274-82-9	U		2.7		U	GAM
Thorium 232	TH-232	U		14		U	GAM
Uranium 235	15117-96-1	U		5.2		U	GAM
Uranium 238	U-238	U		420		U	GAM
Americium 241	14596-10-2	813	8.7	2.7			GAM

216-Z-11 Manhole Technical Smears

DATA SHEETS
Page 1
SUMMARY DATA SECTION
Page 10

Lab id	TMANC
Protocol	Hanford
Version	Ver 1.0
Form	DVD-DS
Version	3.06
Report date	06/22/02

Figure C-2. Data Sheet for Sample B14PL8.

EBERLINE SERVICES/RICHMOND
SAMPLE DELIVERY GROUP H1793

R205155-02 **B14PL8**

DATA SHEET

SDG	7288	Client/Case no	Hanford SDG H1793
Contact	Melissa C. Mannion	Contract	No. 630
Lab sample id	R205155-02	Client sample id	B14PL8
Dept sample id	7288-002	Location/Matrix	200 West FILTERS
Received	05/30/02	Collected/Weight	05/22/02 09:20 0.37 g
		Custody/SAF No	B02-056-02 B02-056

ANALYTE	CAS NO	RESULT pCi/smpl	2σ ERR (COUNT)	MDA pCi/smpl	RDL pCi/smpl	QUALI-FIERS	TEST
Neptunium 237	13994-20-2	0.032	0.064	0.097	1.0	U	NP
Plutonium 238	13981-16-3	2.45	1.4	1.3	1.0		PU
Plutonium 239/240	PU-239/240	94.6	11	1.3	1.0		PU
Curium 243/244	CM-243/244	-0.101	0.40	0.96	1.0	U	TP
Americium 241	14596-10-2	19.5	3.0	0.96	1.0		TP
Potassium 40	13966-00-2	U		13		U	GAM
Cobalt 60	10198-40-0	U		1.2	0.050	U	GAM
Cesium 137	10045-97-3	U		1.1	0.10	U	GAM
Radium 226	13982-63-3	U		2.0	0.10	U	GAM
Radium 228	15262-20-1	U		4.6	0.20	U	GAM
Europium 152	14683-23-9	U		2.8	0.10	U	GAM
Europium 154	15585-10-1	U		3.6	0.10	U	GAM
Europium 155	14391-16-3	U		2.2	0.10	U	GAM
Thorium 228	14274-82-9	U		1.4		U	GAM
Thorium 232	TH-232	U		4.6		U	GAM
Uranium 235	15117-96-1	U		3.3		U	GAM
Uranium 238	U-238	U		120		U	GAM
Americium 241	14596-10-2	23.5	4.6	4.1			GAM

216-Z-11 Manhole Technical Smears

DATA SHEETS
Page 2
SUMMARY DATA SECTION
Page 11

Lab id	TMANC
Protocol	Hanford
Version	Ver 1.0
Form	DVD-DS
Version	3.06
Report date	06/22/02

APPENDIX D

MODELING

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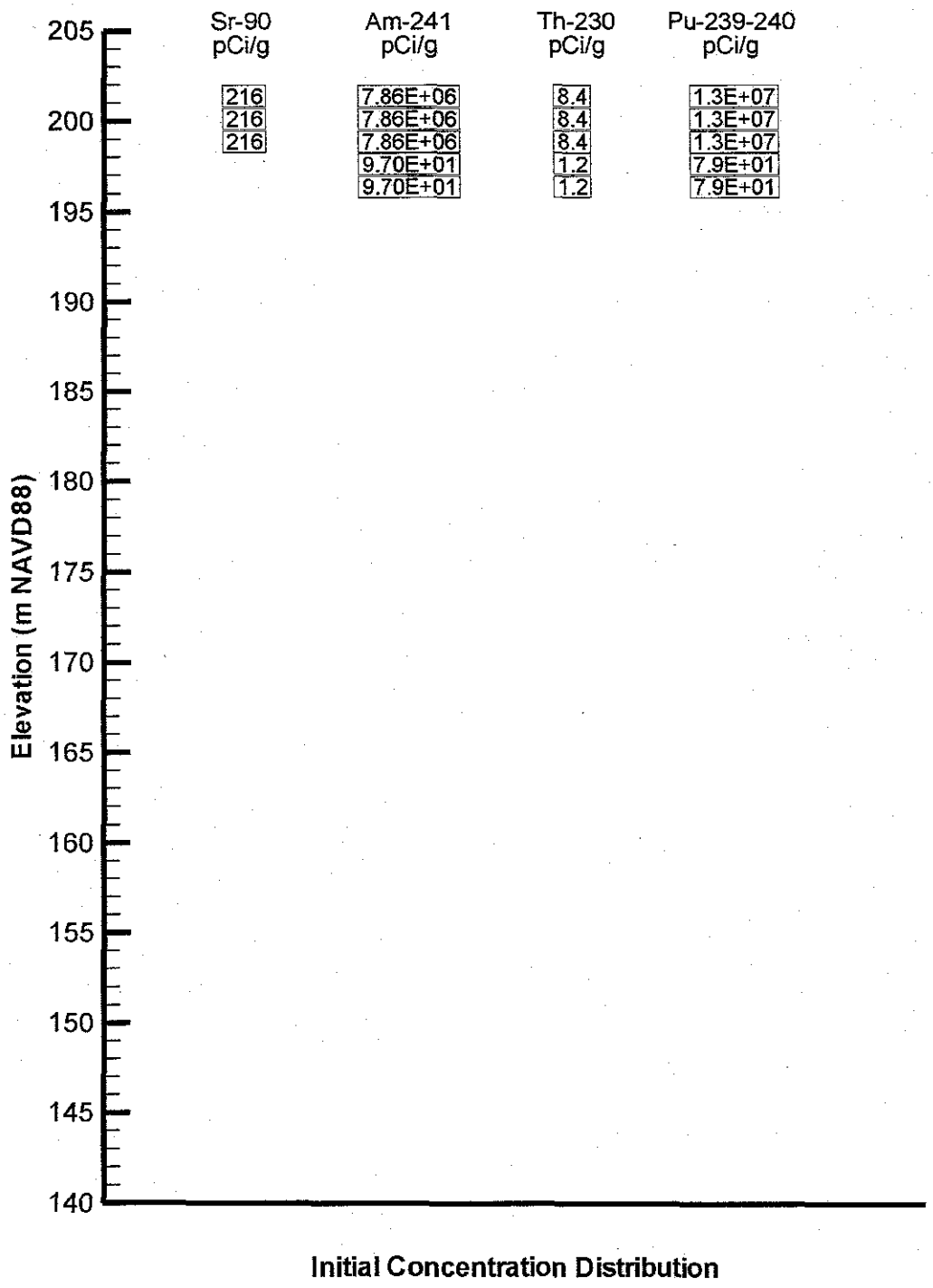
Figure D-1a. 216-Z-11 Model Inputs for Contaminant Distribution. (2 pages)[1]



[1]NAVD88, 1983, *North American Vertical Datum of 1988*, National Geodetic Survey, Federal Geodetic Control Committee, Silver Springs, Maryland.

Figure D-1b. 216-Z-11 Model Inputs for Contaminant Distribution. (2 pages)

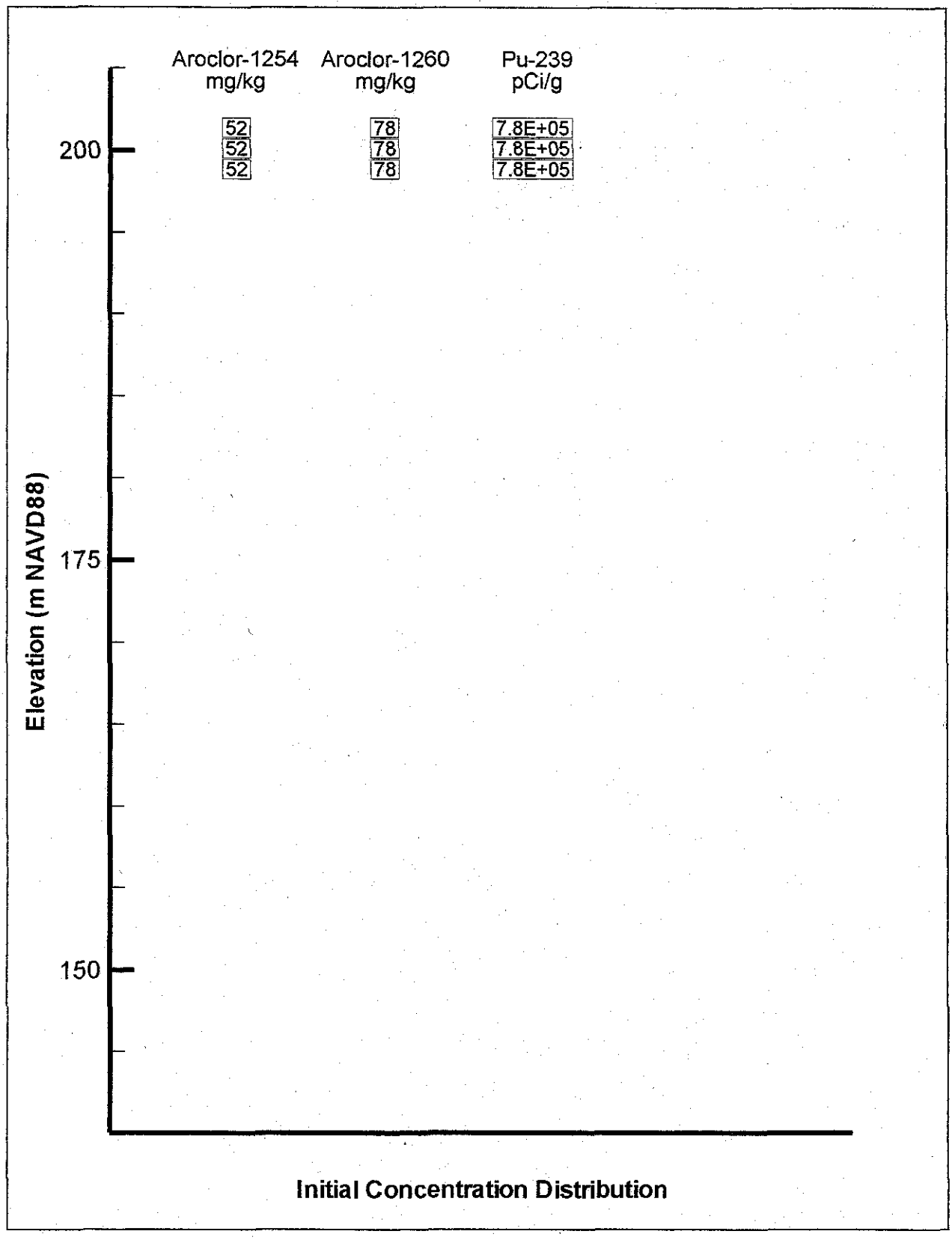


Figure D-2. 216-U-10 Pond Model Inputs for Contaminant Distribution. (5 pages)

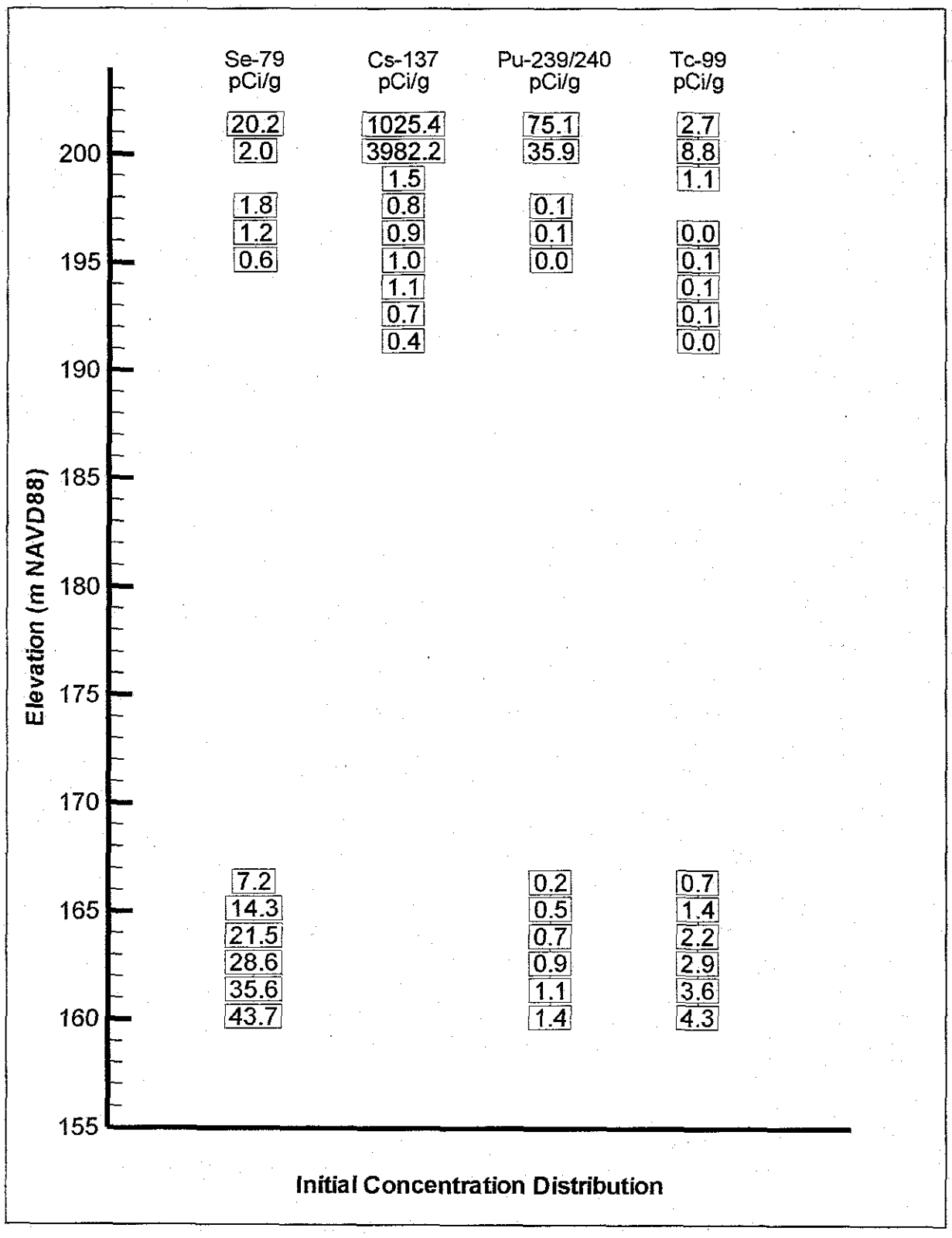


Figure D-2. 216-U-10 Pond Model Inputs for Contaminant Distribution. (5 pages)

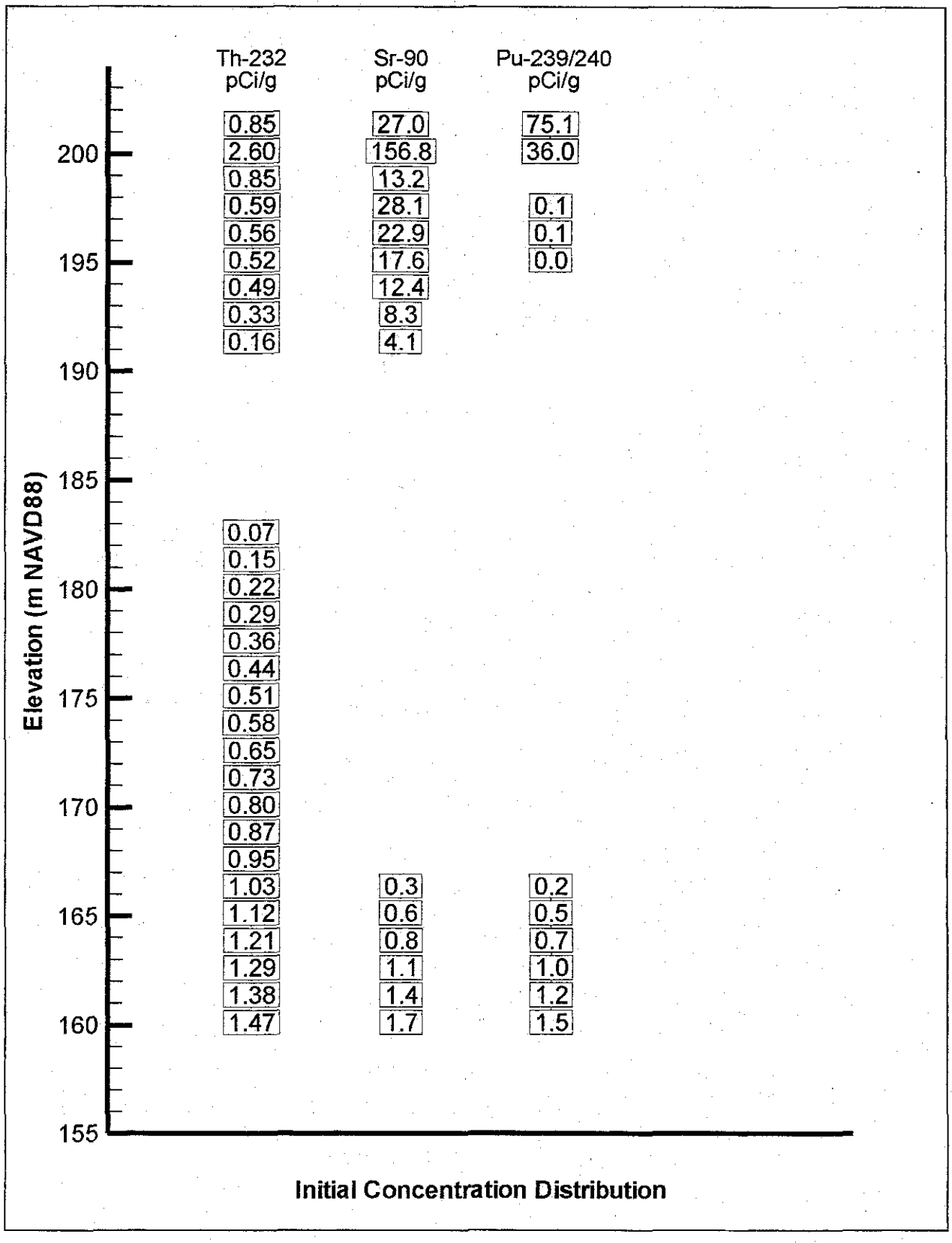


Figure D-2. 216-U-10 Pond Model Inputs for Contaminant Distribution. (5 pages)

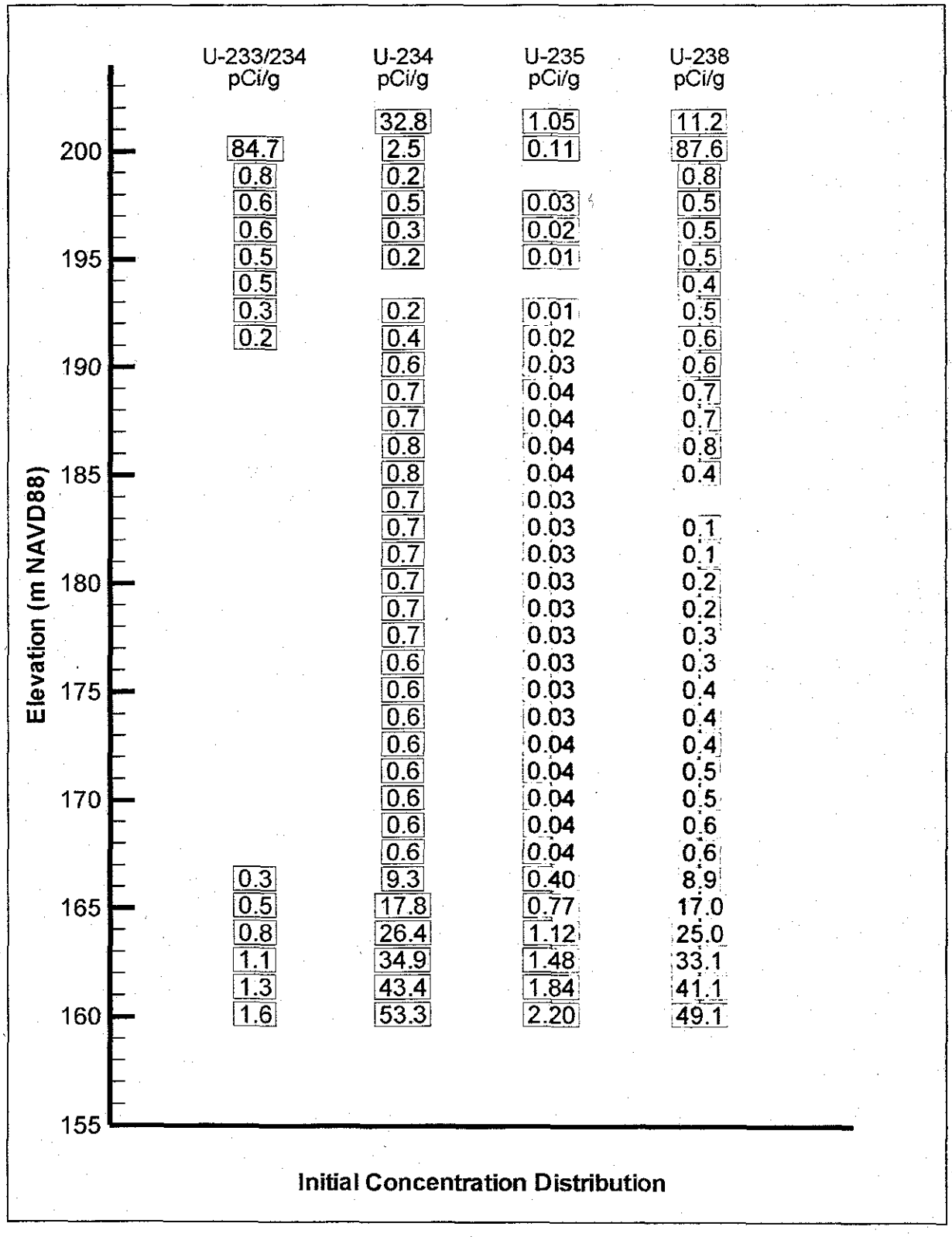


Figure D-2. 216-U-10 Pond Model Inputs for Contaminant Distribution. (5 pages)

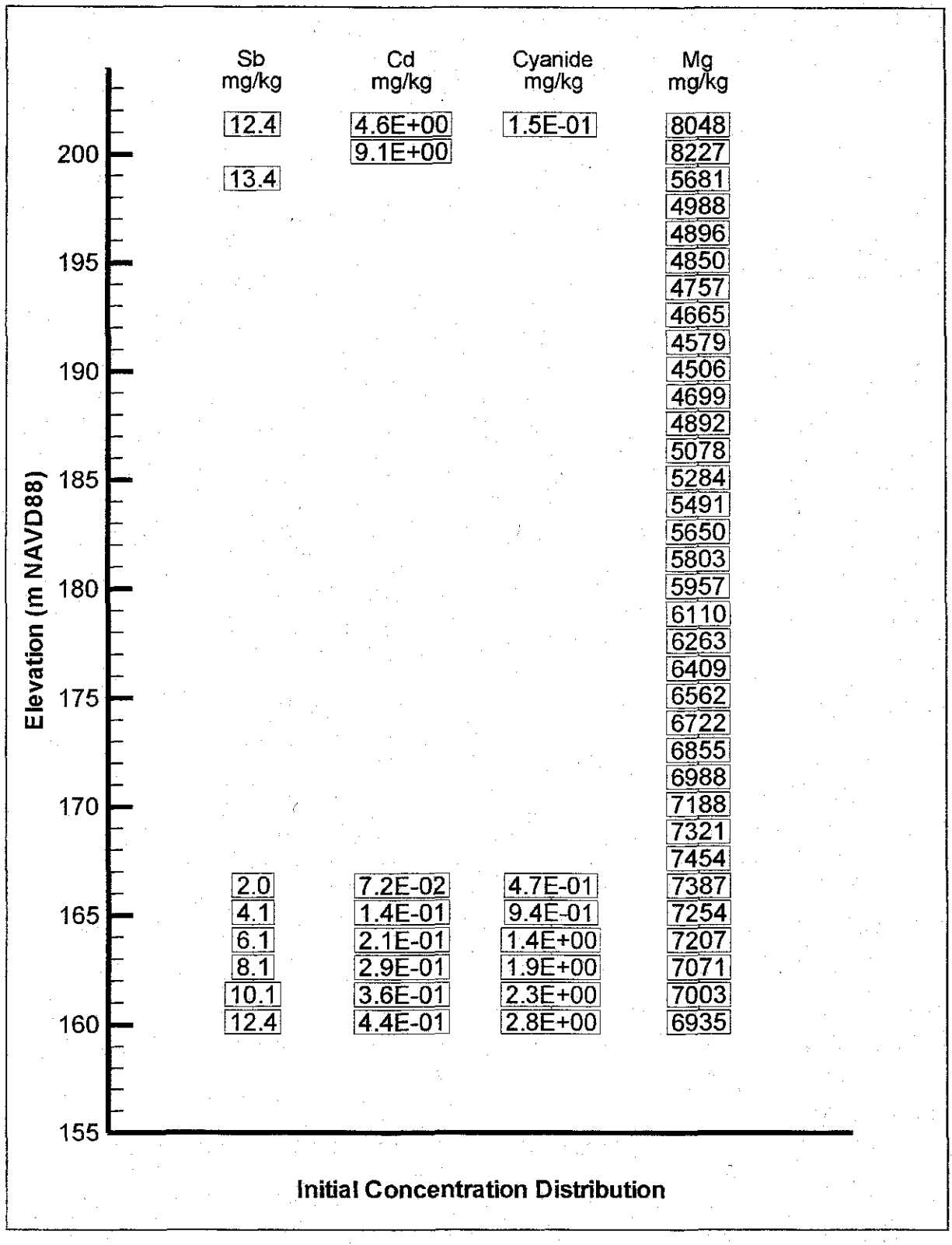


Figure D-2. 216-U-10 Pond Model Inputs for Contaminant Distribution. (5 pages)

Elevation (m NAVD88)	Fe mg/kg	Sulfate mg/kg	Fluoride mg/kg	Kerosene mg/kg
	2.510E+04	229.515	2.3E+01	75.7
200	2.271E+04	2354.766	1.7E+00	
	2.587E+04	27.840	8.9E-01	
	2.265E+04	90.614	1.1E+00	
	2.295E+04	68.359	1.1E+00	
195	2.328E+04	45.957	1.0E+00	
	2.356E+04	23.787	9.9E-01	
	2.522E+04	16.443	6.6E-01	
	2.684E+04	9.145	3.3E-01	
190	2.850E+04	1.863		
	2.815E+04	1.757		
	2.809E+04	1.657		
	2.795E+04	1.557		
185	2.449E+04	1.651		
	2.110E+04	1.744		
	2.230E+04	1.770		
	2.343E+04	1.797		
180	2.456E+04	1.824		
	2.569E+04	1.844		
	2.682E+04	1.870		
	2.795E+04	1.897		
175	2.908E+04	1.923		
	3.022E+04	1.950		
	3.135E+04	1.970		
	3.248E+04	1.997		
170	3.354E+04	2.023		
	3.467E+04	2.043		
	3.574E+04	2.070		
	3.281E+04	4.226	1.3E-01	
165	2.992E+04	6.357	2.5E-01	
	2.699E+04	8.499	3.7E-01	
	2.414E+04	10.607	5.0E-01	
	2.128E+04	12.715	6.2E-01	
160	1.891E+04	15.238	7.4E-01	
155				

Initial Concentration Distribution

Figure D-3. 216-U-14 Ditch Model Inputs for Contaminant Distribution. (2 pages)

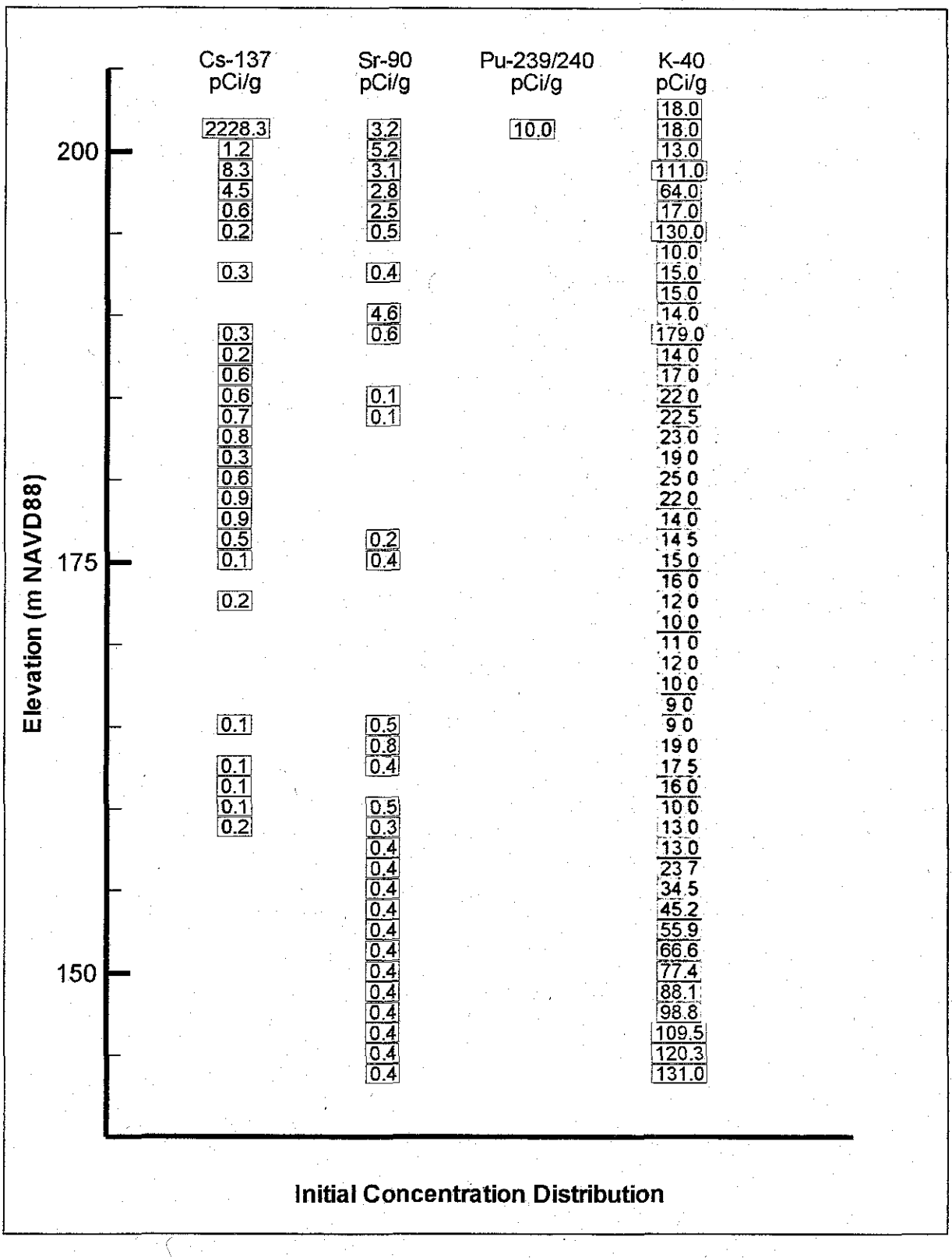
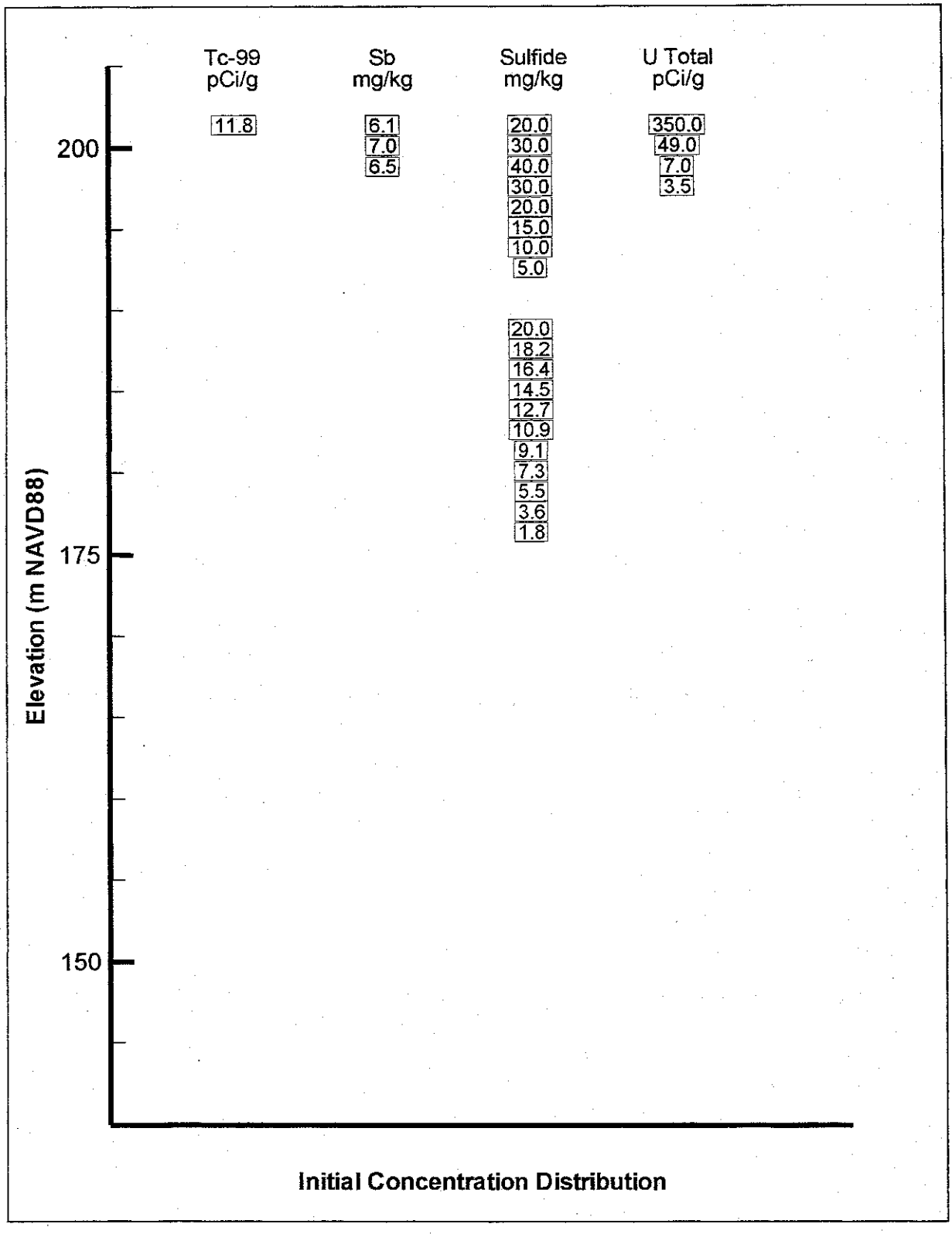


Figure D-3. 216-U-14 Ditch Model Inputs for Contaminant Distribution. (2 pages)



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APPENDIX E

COMPUTATION OF EXPOSURE POINT CONCENTRATIONS FOR THE 200-CW-5 OPERABLE UNIT

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APPENDIX E

COMPUTATION OF EXPOSURE POINT CONCENTRATIONS FOR 200-CW-5 OPERABLE UNIT

The exposure point concentrations (EPC) for the 200-CW-5 operable unit (OU) will be calculated using the best statistical estimate of an upper bound on the average exposure concentrations using U.S. Environmental Protection Agency (EPA) guidance for statistical analysis of monitoring data (*Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities — Interim Final Guidance*; *Supplemental Guidance to RAGS: Calculating the Concentration Term*), where appropriate. An EPC is calculated for each chemical within each data group. A data group consists of soil samples collected within a defined exposure unit (or waste site), as described by the conceptual site models for this study area. The process for calculating the EPCs for each data group identified for the 200-CW-5 OU is described in the following steps:

- Replace the nondetect values with proxy values equal to one-half of the detection limit.
- Transform the original data set (detects plus proxy nondetect values) by calculating the natural logarithm of each value.
- Test the normality of the original and log-transformed data sets using the Shapiro-Wilk (*Supplemental Guidance to RAGS: Calculating the Concentration Term*) test for 50 or fewer samples or the D'Agostino test (*Statistical Methods for Environmental Pollution Monitoring*) for more than 50 samples.
- Calculate a parametric 95 percent upper confidence limit (UCL_{95}) using the data set with the best-fit normality characteristics.

If the data set was distributed normally, the UCL_{95} will be calculated using the following formula (*Supplemental Guidance to RAGS: Calculating the Concentration Term*):

$$UCL = \bar{x} + t_{n-1}\left(\frac{s}{\sqrt{n}}\right)$$

where

UCL	=	upper confidence limit
$\bar{x}$	=	mean of the untransformed data
t	=	Student-t statistic (e.g., from Table A2 published in *Statistical Methods for Environmental Pollution Monitoring*)
s	=	standard deviation of the untransformed data
n	=	number of samples.

If the data set was distributed lognormally, the UCL_{95} will be calculated using the following formula (*Supplemental Guidance to RAGS: Calculating the Concentration Term*):

$$UCL = e^{\left(\bar{x}+0.5s^2+sH/\sqrt{n-1}\right)}$$

where

UCL	=	upper confidence limit
e	=	constant (base of the natural log, equal to 2.718)
$\bar{x}$	=	mean of the log-transformed data
s	=	standard deviation of the log-transformed data
H	=	H-statistic (Table A12 in *Statistical Methods for Environmental Pollution Monitoring*)
n	=	number of samples.

If the Shapiro-Wilk test (or the D'Agostino test) indicates that the data follow normal and lognormal distributions, the distribution with the largest W-test statistic (i.e., the best fit) will be selected, and the UCL_{95} will be calculated using Equation 1 or Equation 2, as appropriate.

Alternatively, if the Shapiro-Wilk test (or the D'Agostino test) indicates that the data do not follow normal and lognormal distributions, the distribution with the largest W-test statistic (i.e., the best fit) will be selected, and the UCL_{95} will be calculated using Equation 1 or Equation 2, as appropriate. The uncertainties incorporated into the risk assessment using this approach will be described for areas and constituents using these assumptions.

References

PB89-151047, 1989, *Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities — Interim Final Guidance,* Office of Solid Waste Management Division, April.

Publication 9285.7-081, 1992, *Supplemental Guidance to RAGS: Calculating the Concentration Term,* Office of Solid Waste and Emergency Response, May.

Statistical Methods for Environmental Pollution Monitoring, 1987, Van Nostrand Reinhold, New York.