This document was too large to scan as a single document. It has been divided into smaller sections.

SECTION 3

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Sect 3 of 3

APPENDIX B

DATA EVALUATION AND DATA SUMMARY TABLES

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CONTENTS

B.1. RESULTS FOR THE 216-A-10 CRIB WASTE SITE (BOREHOLE C3247)

Table B1-1. Radiochemical Analysis Results for 216-A-10 Crib Samples
Table B1-2. Metal Analysis Results for 216-A-10 Crib Samples
Table B1-3. General Inorganic Analysis Results for 216-A-10 Crib Samples
Table B1-4. Volatile Organic Analysis Results 216-A-10 Crib Samples
Table B1-5. Semi-Volatile Organic Analysis Results for 216-A-10 Crib Samples
Table B1-6. Miscellaneous Organic Analysis Results for 216-A-10 Crib Samples

B.2. RESULTS FOR THE 216-A-19 TRENCH WASTE SITE (BOREHOLE C3245)

Table B2-1. Radiochemical Analysis Results for 216-A-19 Trench Samples
Table B2-2. Metal Analysis Results for 216-A-19 Trench Samples
Table B2-3. General Inorganic Analysis Results for 216-A-19 Trench Samples
Table B2-4. Volatile Organic Analysis Results 216-A-19 Trench Samples
Table B2-5. Semi-Volatile Organic Analysis Results for 216-A-19 Trench Samples
Table B2-6. Miscellaneous Organic Analysis Results for 216-A-19 Trench Samples

B.3. RESULTS FOR THE 216-A-36B CRIB WASTE SITE (BOREHOLE C3248)

Table B3-1. Radiochemical Analysis Results for 216-A-36B Crib Samples
Table B3-2. Metal Analysis Results for 216-A-36B Crib Samples
Table B3-3. General Inorganic Analysis Results for 216-A-36B Crib Samples
Table B3-4. Volatile Organic Analysis Results 216-A-36B Crib Samples
Table B3-5. Semi-Volatile Organic Analysis Results for 216-A-36B Crib Samples
Table B3-6. Miscellaneous Organic Analysis Results for 216-A-36B Crib Samples

B.4. RESULTS FOR THE 216-A-37-1 CRIB WASTE SITE (BOREHOLE C4106)

Table B4-1. Radiochemical Analysis Results for 216-A-37-1 Crib Samples
Table B4-2. Metal Analysis Results for 216-A-37-1 Crib Samples
Table B4-3. General Inorganic Analysis Results for 216-A-37-1 Crib Samples
Table B4-4. Volatile Organic Analysis Results 216-A-37-1 Crib Samples
Table B4-5. Semi-Volatile Organic Analysis Results for 216-A-37-1 Crib Samples
Table B4-6. Miscellaneous Organic Analysis Results for 216-A-37-1 Crib Samples

B.5. RESULTS FOR THE 216-B-12 CRIB WASTE SITE (BOREHOLE C3246)

Table B5-1. Radiochemical Analysis Results for 216-B-12 Crib Samples
Table B5-2. Metal Analysis Results for 216-B-12 Crib Samples
Table B5-3. General Inorganic Analysis Results for 216-B-12 Crib Samples
Table B5-4. Volatile Organic Analysis Results 216-B-12 Crib Samples
Table B5-5. Semi-Volatile Organic Analysis Results for 216-B-12 Crib Samples
Table B5-6. Miscellaneous Organic Analysis Results for 216-B-12 Crib Samples

B.6. RESULTS FOR THE 207-A SOUTH RETENTION BASIN WASTE SITE (BOREHOLES C4113, C4114, AND C4115)

Table B6-1. Radiochemical Analysis Results for 207-A South Retention Basin Samples
Table B6-2. Metal Analysis Results for 207-A South Retention Basin Samples
Table B6-3. General Inorganic Analysis Results for 207-A South Retention Basin Samples
Table B6-4. Volatile Organic Analysis Results 207-A South Retention Basin Samples
Table B6-5. Semi-Volatile Organic Analysis Results for 207-A South Retention Basin Samples
Table B6-6. Miscellaneous Organic Analysis Results for 207-A South Retention Basin Samples

B.7. RESULTS FOR THE 207-A SOUTH RETENTION BASIN CONCRETE SAMPLES

Table B7-1. Radiochemical Analysis Results for 207-A South Retention Basin Concrete Samples
Table B7-2. Metal Analysis Results for 207-A South Retention Basin Concrete Samples
Table B7-3. General Inorganic Analysis Results for 207-A South Retention Basin Concrete Samples
Table B7-4. Volatile Organic Analysis Results 207-A South Retention Basin Concrete Samples
Table B7-5. Semi-Volatile Organic Analysis Results for 207-A South Retention Basin Concrete Samples
Table B7-6. Miscellaneous Organic Analysis Results for 207-A South Retention Basin Concrete Samples

B.8 RESULTS FOR THE 207-A SOUTH RETENTION BASIN SURFACE SAMPLES

Table B8-1. Radiochemical Analysis Results for 207-A East, Middle, and West Retention Basin Samples
Table B8-2. Metal Analysis Results For 207-A East, Middle, and West Retention Basin Samples

Table B8-3. General Inorganic and Total Organic Carbon Analysis Results for 207-A East, Middle, and West Retention Basin Samples
Table B8-4. Miscellaneous Organic Analysis Results for 207-A East, Middle, and West Retention Basin Samples

APPENDIX B

DATA EVALUATION AND DATA SUMMARY TABLES

B1.0 DATA EVALUATION

Samples from selected waste sites in the 200-PW-2 and 200-PW-4 combined operable units and associated field-quality control samples were obtained and analyzed in accordance with the sampling and analysis plan (SAP) in DOE/RL-2000-60, *Uranium-Rich/General Process Condensate and Process Waste Group Operable Unit RI/FS Work Plan and RCRA TSD Unit Sampling Plan*, Rev. 1, EPA/600/R-96/084, *Guidance for Data Quality Assessment*, and CP-GPP-EE-01-1.22, *Data Quality Assessment*. Also, as required by the plan, the analytical data from these samples were evaluated to ensure that the quality assurance objectives of the project were achieved. This evaluation consisted of three activities:

- Formal validation of a portion of the data
- Review of the complete data set to determine the degree to which detection limit requirements were achieved
- Evaluation of the field quality control sample data.

The results of these activities are summarized in the following sections.

B1.1 DATA VALIDATION RESULTS

Laboratory data from 40 samples in 15 sample delivery groups, making up approximately one-quarter of the analytical data, were validated to Level "C" as described in BHI-01435, *Data Validation Procedures for Chemical Analysis*, and BHI-01433, *Data Validation Procedures for Radiochemical Analysis*.

Approximately one quarter of the analytical data were validated. This effort resulted in two analytical results being rejected for decision-making. In addition, a number of minor shortcomings were found in the execution of other analytical determinations, resulting in those determinations being flagged as estimated. However, the majority of the data were obtained without any discrepancy.

The two rejected results were the gasoline-range organics result for the 82.6 m (272.5 ft) depth in the 216-A-37-1 Crib and the silver analysis for the 10.8 m (35.5 ft) depth in the 216-B-12 Crib. The gasoline analysis was rejected because the holding time exceeded the limit by more than a factor of two. The silver analysis was rejected for an extremely low (5.3 percent) recovery of the matrix spike. In both cases, the analytes were not detected in the sample, so both samples were qualified "UR" (undetected, rejected).

A number of minor deficiencies resulted in sample results being flagged with a "J" (estimate) qualifier. The deficiencies were distributed across the whole gamut of quality control (QC) checks and were not isolated to any particular subset of the analytical methods employed.

Contamination detected in laboratory blanks resulted in qualifying several results for volatile and semivolatile organic compounds with a "U" (not detected).

The amount of laboratory analytical data obtained in the validated sample delivery groups was well above the normal 90 percent "completeness" criterion for site characterization studies.

B1.2 DATA EVALUATION

As a supplement to formal data validation, all the data obtained for the project were examined with respect to completeness and detection limits.

With respect to completeness, the major deficiencies were the lack of hexavalent chromium and oil-and-grease data for four samples taken at the 216-A-10 Crib and cadmium and selenium data for seven samples from the 216-A-36B Crib. All the missing data were for the bottommost samples in the two boreholes. Because cadmium and selenium were below detection limits in the upper samples of the 216-A-36B Crib, and hexavalent chromium was below detection limits in the upper samples of the 216-A-10 Crib, modeling at greater depths was not problematic.

The absence of some oil-and-grease data from the 216-A-10 Crib data set does not present a problem in comparing analysis results with exposure and groundwater standards because those data are not used for comparison. Those constituents are compared using gas chromatography data for total petroleum hydrocarbon analyses for diesel-, kerosene-, and gasoline-range organic compounds; total petroleum-hydrocarbon analyses by gas chromatography are preferred to the gravimetric oil-and-gas measurements.

Reported analytical detection levels for nondetected analytes were compared to the target quantitation limits (TQL) and preliminary quantitation limits (PQL) specified in the sampling and analysis plan.

Although the detection limits for most determinations met both standards, exceedance of the TQLs was common and distributed over all analytical methods. Exceedance of the PQLs, however, was relatively rare for all analytes except selenium and certain gamma emitters. Selenium was undetected at levels exceeding one or more of the PQLs in 47 determinations. For the gamma emitters, another 47 results exceeded the PQLs. These were distributed among ^{152}Eu, ^{154}Eu, ^{155}Eu, ^{226}Ra, ^{228}Ra, and ^{60}Co. The PQLs also were occasionally exceeded for carbon tetrachloride, 1,2-dichloroethane, nitrite, phenol, diesel- and kerosene-range organics, silver, and antimony.

B1.3 FIELD QUALITY CONTROL SAMPLES

A total of 27 field QC samples were collected and analyzed. These consisted of 12 field duplicate samples, 11 equipment rinsate blanks, and 4 trip blanks. The number of field QC samples obtained satisfies the sampling and analysis plan requirement of 1 field duplicate and 1 equipment rinsate for every 20 site characterization samples.

Duplicate samples were analyzed for each constituent that was determined in its matching primary site sample. In more than 90 percent of the cases, the match between the results of the duplicate and the primary site sample was satisfactory. About half of the unsatisfactory matches were for radionuclides. These results show that the overall precision of sampling and analysis is generally within the project requirements, even at the very low concentrations of contaminants of concern found in most samples.

The equipment rinsates were analyzed for radionuclides, metals (except mercury and hexavalent chromium), and anions (except cyanide). In addition, one equipment rinsate from each of the six waste sites was analyzed for volatile organic compounds, and three rinsates were analyzed for polychlorinated biphenyl compounds, alcohols, total petroleum hydrocarbons, and oil and grease.

In the equipment rinsate analyses, contaminants were normally undetected with satisfactory detection limits. Detection limits exceeded the respective TQL in only 13 cases and exceeded the PQL only 3 times. These results indicate that contamination of the samples from the sampling equipment and sampling environment is not a serious concern.

B1.4 CONCLUSION

The overall conclusion of the data quality assessment is that the data are of the right type and of sufficient quality and quantity to support the remedial investigation/feasibility study activities. The analytical data are acceptable for decision-making purposes, and are acceptable for calculating the required values.

B1.5 REFERENCES

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EPA/600/R-96/084, 2000, *Guidance for Data Quality Assessment*, U.S. Environmental Protection Agency, Office of Research and Development, Washington, D.C.

Table B1-1. Radiochemical Analysis Results for 216-A-10 Crib (C3247) Samples

		Actinium-228				Americium-241				Antimony-125				Bismuth-212				Bismuth-214			
Interval	HEIS	Result	Units	Q	MDA	Result	Units	Q	MDA	Result	Units	Q	MDA	Result	Units	Q	MDA	Result	Units	Q	MDA
12.5 bgs	B17113					-0.037	pCi/g	U	0.28												
45 bgs	B17114					0	pCi/g	U	0.25												
52 bgs	B17115					1320	pCi/g		0.58												
54 bgs	B17124					738	pCi/g		0.53												
62.5 bgs	B17116					70.6	pCi/g		0.28												
62.5 bgs	B17122					57.3	pCi/g		0.86												
72.5 bgs	B17117					-0.014	pCi/g	U	0.10												
87.5 bgs	B17118					4.12	pCi/g		0.16												
127.5 bgs	B17119					-0.022	pCi/g	U	0.082												
197.5 bgs	B17120	0.669	pCi/g		0.034	0.007	pCi/g	U	0.035	0.002	pCi/g	U	0.028	0.39	pCi/g		0.081	0.49	pCi/g		0.02
197.5 bgs	B17MH9																				
287.5 bgs	B17121	0.68	pCi/g		0.04	0.002	pCi/g	U	0.053	-0.01	pCi/g	U	0.031	0.45	pCi/g		0.094	0.472	pCi/g		0.023
287.5 bgs	B17MJ0																				
292 bgs	B172M8	0.963	pCi/g		0.047	-0.017	pCi/g	U	0.063	0.016	pCi/g	U	0.036	0.605	pCi/g		0.11	0.609	pCi/g		0.026
292 bgs	B17MJ1																				
317 bgs	B171B5	0.525	pCi/g		0.03	0.029	pCi/g	U	0.03	-0.009	pCi/g	U	0.025	0.359	pCi/g		0.066	0.717	pCi/g		0.017
317 bgs	B17MJ2																				
dup of B17116	B17123					78.8	pCi/g		0.26												
equip blank tied to B17114	B17110					0	pCi/L	U	0.31												
Target Quantitation Limit						1.00															

Table B1-1. Radiochemical Analysis Results for 216-A-10 Crib (C3247) Samples

		Carbon-14					Cerium-144				Cesium-134				Cesium-137			
Interval	HEIS	Result	Units	Q	MDA	Val Qual	Result	Units	Q	MDA	Result	Units	Q	MDA	Result	Units	Q	MDA
12.5 bgs	B17113	-0.903	pCi/g	U	3.10							pCi/g	U	0.18		pCi/g	U	0.15
45 bgs	B17114	-0.033	pCi/g	U	2.50							pCi/g	U	0.078		pCi/g	U	0.052
52 bgs	B17115	1.58	pCi/g	U	2.50	UJ						pCi/g	U	0.24	1080	pCi/g		1.30
54 bgs	B17124	0.95	pCi/g	U	2.30	UJ						pCi/g	U	0.26	488	pCi/g		0.93
62.5 bgs	B17116	0.356	pCi/g	U	2.20	UJ						pCi/g	U	0.092	294	pCi/g		0.25
62.5 bgs	B17122	7.50	pCi/g		2.50							pCi/g	U	0.27	2950	pCi/g		1.90
72.5 bgs	B17117	0.533	pCi/g	U	3.50							pCi/g	U	0.12		pCi/g	U	0.092
87.5 bgs	B17118	0.065	pCi/g	U	3.30							pCi/g	U	0.11		pCi/g	U	0.064
127.5 bgs	B17119	-0.754	pCi/g	U	3.00							pCi/g	U	0.12		pCi/g	U	0.08
197.5 bgs	B17120						0.017	pCi/g	U	0.09	0.033	pCi/g	U	0.04	-0.003	pCi/g	U	0.011
197.5 bgs	B17MH9	-0.868	pCi/g	U	2.00													
287.5 bgs	B17121						-0.017	pCi/g	U	0.10	0.041	pCi/g	U	0.05	-0.009	pCi/g	U	0.012
287.5 bgs	B17MJ0	0	pCi/g	U	3.30													
292 bgs	B172M8						-0.047	pCi/g	U	0.099	0.041	pCi/g	U	0.05	0.002	pCi/g	U	0.014
292 bgs	B17MJ1	0.551	pCi/g	U	1.90													
317 bgs	B171B5						-0.009	pCi/g	U	0.078	0.028	pCi/g	U	0.03	-0.001	pCi/g	U	0.009
317 bgs	B17MJ2	0.45	pCi/g	U	2.10													
dup of B17116	B17123	1.44	pCi/g	U	2.20	UJ						pCi/g	U	0.053	347	pCi/g		0.16
equip blank tied to B17114	B17110											pCi/L	U	15.0		pCi/L	U	13.0
Target Quantitation Limit		50.0													0.10			

Table B1-1. Radiochemical Analysis Results for 216-A-10 Crib (C3247) Samples

		Cobalt-60					Europium-152					Europium-154				
Interval	HEIS	Result	Units	Q	MDA	Val Qual	Result	Units	Q	MDA	Val Qual	Result	Units	Q	MDA	Val Qual
12.5 bgs	B17113		pCi/g	U	0.16			pCi/g	U	0.36			pCi/g	U	0.42	
45 bgs	B17114		pCi/g	U	0.056			pCi/g	U	0.11			pCi/g	U	0.19	
52 bgs	B17115		pCi/g	U	0.22	UJ		pCi/g	U	3.20	UJ		pCi/g	U	0.63	UJ
54 bgs	B17124		pCi/g	U	0.18	UJ		pCi/g	U	2.60	UJ		pCi/g	U	0.62	UJ
62.5 bgs	B17116		pCi/g	U	0.069	UJ		pCi/g	U	0.85	UJ		pCi/g	U	0.41	UJ
62.5 bgs	B17122		pCi/g	UD	0.16			pCi/g	U	4.60			pCi/g	U	0.56	
72.5 bgs	B17117		pCi/g	U	0.094			pCi/g	U	0.22			pCi/g	U	0.31	
87.5 bgs	B17118		pCi/g	U	0.068			pCi/g	U	0.16			pCi/g	U	0.24	
127.5 bgs	B17119		pCi/g	U	0.091			pCi/g	U	0.20			pCi/g	U	0.27	
197.5 bgs	B17120	0	pCi/g	U	0.011		-0.011	pCi/g	U	0.031		0.002	pCi/g	U	0.035	
197.5 bgs	B17MH9															
287.5 bgs	B17121	0	pCi/g	U	0.013		0.019	pCi/g	U	0.036		0.032	pCi/g	U	0.039	
287.5 bgs	B17MJ0															
292 bgs	B172M8	-0.005	pCi/g	U	0.014		0.017	pCi/g	U	0.038		-0.017	pCi/g	U	0.046	
292 bgs	B17MJ1															
317 bgs	B171B5	-0.001	pCi/g	U	0.009		-0.005	pCi/g	U	0.028		0.004	pCi/g	U	0.029	
317 bgs	B17MJ2															
dup of B17116	B17123		pCi/g	U	0.041			pCi/g	U	0.56	UJ	0.20	pCi/g		0.14	J
equip blank tied to B17114	B17110		pCi/L	U	14.0			pCi/L	U	32.0			pCi/L	U	40.0	
Target Quantitation Limit		0.05					0.10					0.10				

Table B1-1. Radiochemical Analysis Results for 216-A-10 Crib (C3247) Samples

		Europium-155					Iodine-129				Lead-212				Lead-214			
Interval	HEIS	Result	Units	Q	MDA	Val Qual	Result	Units	Q	MDA	Result	Units	Q	MDA	Result	Units	Q	MDA
12.5 bgs	B17113		pCi/g	U	0.31		0.552	pCi/g	U	1.90								
45 bgs	B17114		pCi/g	U	0.10		0.353	pCi/g	U	1.30								
52 bgs	B17115		pCi/g	U	1.90	UJ	3.41	pCi/g		1.80								
54 bgs	B17124		pCi/g	U	1.50	UJ	10.3	pCi/g		1.70								
62.5 bgs	B17116		pCi/g	U	0.49	UJ	4.40	pCi/g		1.70								
62.5 bgs	B17122		pCi/g	U	2.70		38.8	pCi/g		1.00								
72.5 bgs	B17117		pCi/g	U	0.19		1.52	pCi/g	U	2.20								
87.5 bgs	B17118		pCi/g	U	0.16		-1.76	pCi/g	U	6.50								
127.5 bgs	B17119		pCi/g	U	0.22		-0.829	pCi/g	U	3.20								
197.5 bgs	B17120	0.025	pCi/g	U	0.049						0.667	pCi/g		0.02	0.582	pCi/g		0.023
197.5 bgs	B17MH9						0.786	pCi/g	U	1.30								
287.5 bgs	B17121	0.054	pCi/g		0.053						0.702	pCi/g		0.03	0.55	pCi/g		0.025
287.5 bgs	B17MJ0						-0.441	pCi/g	U	1.30								
292 bgs	B172M8	0.046	pCi/g	U	0.055						0.97	pCi/g		0.03	0.628	pCi/g		0.028
292 bgs	B17MJ1						-0.689	pCi/g	U	1.60								
317 bgs	B171B5	0.013	pCi/g	U	0.041						0.528	pCi/g		0.02	0.66	pCi/g		0.021
317 bgs	B17MJ2						0.059	pCi/g	U	1.80								
dup of B17116	B17123		pCi/g	U	0.32	UJ	5.17	pCi/g		1.40								
equip blank tied to B17114	B17110		pCi/L	U	41.0		1.28	pCi/L	U	6.10								
Target Quantitation Limit		0.10					2.00											

Table B1-1. Radiochemical Analysis Results for 216-A-10 Crib (C3247) Samples

		Neptunium-237				Nickel-63				Niobium-94				Plutonium-238				Plutonium-239/240			
Interval	HEIS	Result	Units	Q	MDA	Result	Units	Q	MDA	Result	Units	Q	MDA	Result	Units	Q	MDA	Result	Units	Q	MDA
12.5 bgs	B17113	0.043	pCi/g		0.041	-0.581	pCi/g	U	2.20					0	pCi/g	U	0.35	0	pCi/g	U	0.35
45 bgs	B17114	0.027	pCi/g	U	0.042	-0.321	pCi/g	U	2.20					0	pCi/g	U	0.23	0	pCi/g	U	0.23
52 bgs	B17115	0.052	pCi/g	U	0.078	-1.22	pCi/g	U	2.30					316	pCi/g		25.0	7110	pCi/g		25
54 bgs	B17124	0.032	pCi/g	U	0.096	-0.546	pCi/g	U	2.40					132	pCi/g		26.0	3120	pCi/g		26
62.5 bgs	B17116	0.132	pCi/g		0.079	-0.994	pCi/g	U	2.30					0.07	pCi/g	U	0.27	0.805	pCi/g		0.27
62.5 bgs	B17122	0	pCi/g	U	0.87	-1.00	pCi/g	U	5.20					0.073	pCi/g	U	0.14	1.40	pCi/g		0.14
72.5 bgs	B17117	0.02	pCi/g	UX	0.051	0.06	pCi/g	U	2.00					0.025	pCi/g	U	0.19	0	pCi/g	U	0.19
87.5 bgs	B17118	0.031	pCi/g	U	0.047	1.71	pCi/g	U	2.10					-0.021	pCi/g	U	0.16	0.021	pCi/g	U	0.16
127.5 bgs	B17119	0	pCi/g	U	0.049	2.13	pCi/g		1.90					0	pCi/g	U	0.23	0	pCi/g	U	0.23
197.5 bgs	B17120									0.007	pCi/g	U	0.01	0.008	pCi/g	U	0.029	0.004	pCi/g	U	0.01
197.5 bgs	B17MH9	0.012	pCi/g		0.012	-1.29	pCi/g	U	3.20												
287.5 bgs	B17121									0.001	pCi/g	U	0.01	-0.006	pCi/g	U	0.054	0.002	pCi/g	U	0.01
287.5 bgs	B17MJ0	0.036	pCi/g	U	0.11	-0.391	pCi/g	U	2.20												
292 bgs	B172M8									0.009	pCi/g	U	0.01	-0.02	pCi/g	U	0.064	0.008	pCi/g		0.01
292 bgs	B17MJ1	0	pCi/g	U	0.12	-0.874	pCi/g	U	2.20												
317 bgs	B171B5									0.006	pCi/g	U	0.01	0.023	pCi/g	U	0.055	0.006	pCi/g		0.01
317 bgs	B17MJ2	0.046	pCi/g	U	0.14	0.854	pCi/g	U	2.20												
dup of B17116	B17123	-0.04	pCi/g	U	0.30	0.299	pCi/g	U	2.30					0	pCi/g	U	1.20	0.976	pCi/g	U	1.20
equip blank tied to B17114	B17110	0.291	pCi/L	U	0.44	-0.125	pCi/L	U	2.00					0	pCi/L	U	0.34	0	pCi/L	U	0.34
Target Quantitation Limit		1.00				30.0								1.00				1.00			

Table B1-1. Radiochemical Analysis Results for 216-A-10 Crib (C3247) Samples

		Potassium-40				Radium-226					Radium-228					Ruthenium-103			
Interval	HEIS	Result	Units	Q	MDA	Result	Units	Q	MDA	Val Qual	Result	Units	Q	MDA	Val Qual	Result	Units	Q	MDA
12.5 bgs	B17113	18.7	pCi/g		1.70	0.82	pCi/g		0.26			pCi/g	U	1.30					
45 bgs	B17114	21	pCi/g		0.63	0.564	pCi/g		0.10		0.994	pCi/g		0.23					
52 bgs	B17115	27.2	pCi/g		2.10		pCi/g	U	1.70	UJ		pCi/g	U	1.30	UJ				
54 bgs	B17124	19.6	pCi/g		2.10		pCi/g	U	1.80	UJ		pCi/g	U	1.70	UJ				
62.5 bgs	B17116	22.8	pCi/g		0.61		pCi/g	U	0.75	UJ	1.06	pCi/g		0.26	J				
62.5 bgs	B17122	19.2	pCi/g		1.20		pCi/g	U	2.50		1.27	pCi/g		0.99					
72.5 bgs	B17117	20.3	pCi/g		1.10	0.592	pCi/g		0.20		0.777	pCi/g		0.45					
87.5 bgs	B17118	19.0	pCi/g		0.82	0.537	pCi/g		0.13		0.756	pCi/g		0.28					
127.5 bgs	B17119	19.8	pCi/g		0.94	0.633	pCi/g		0.12		0.59	pCi/g		0.36					
197.5 bgs	B17120					0.49	pCi/g		0.02		0.669	pCi/g		0.034		0.001	pCi/g	U	0.011
197.5 bgs	B17MH9																		
287.5 bgs	B17121					0.472	pCi/g		0.023		0.68	pCi/g		0.04		-0.002	pCi/g	U	0.012
287.5 bgs	B17MJ0																		
292 bgs	B172M8					0.609	pCi/g		0.026		0.963	pCi/g		0.047		-0.004	pCi/g	U	0.012
292 bgs	B17MJ1																		
317 bgs	B171B5					0.717	pCi/g		0.017		0.525	pCi/g		0.03		0.002	pCi/g	U	0.009
317 bgs	B17MJ2																		
dup of B17116	B17123	21.1	pCi/g		0.38	0.516	pCi/g		0.25	J	0.984	pCi/g		0.18	J				
equip blank tied to B17114	B17110		pCi/L	U	260		pCi/L	U	24.0			pCi/L	U	52.0					
Target Quantitation Limit						0.10					0.20								

Table B1-1. Radiochemical Analysis Results for 216-A-10 Crib (C3247) Samples

		Ruthenium-106				Technetium-99					Thallium-208				Thorium-228			
Interval	HEIS	Result	Units	Q	MDA	Result	Units	Q	MDA	Val Qual	Result	Units	Q	MDA	Result	Units	Q	MDA
12.5 bgs	B17113					0.186	pCi/g	U	0.57						0.545	pCi/g		0.16
45 bgs	B17114					-0.029	pCi/g	U	0.54						0.449	pCi/g		0.26
52 bgs	B17115					0.791	pCi/g	B	0.48	J					0.858	pCi/g		0.093
54 bgs	B17124					0.796	pCi/g	B	0.56	J					0.484	pCi/g		0.094
62.5 bgs	B17116					0.785	pCi/g	B	0.55	J					0.572	pCi/g		0.091
62.5 bgs	B17122					0.298	pCi/g	U	0.53						2.11	pCi/g		0.85
72.5 bgs	B17117					0.029	pCi/g	U	0.58						0.712	pCi/g		0.044
87.5 bgs	B17118					-0.113	pCi/g	U	0.65						0.595	pCi/g		0.17
127.5 bgs	B17119					0.174	pCi/g	U	0.57						0.521	pCi/g		0.15
197.5 bgs	B17120	-0.017	pCi/g	U	0.091						0.188	pCi/g		0.01				
197.5 bgs	B17MH9					0.285	pCi/g	U	0.62						0.50	pCi/g		0.18
287.5 bgs	B17121	-0.021	pCi/g	U	0.10						0.213	pCi/g		0.01				
287.5 bgs	B17MJ0					0.163	pCi/g	U	0.61						0.657	pCi/g		0.085
292 bgs	B172M8	-0.043	pCi/g	U	0.12						0.288	pCi/g		0.01				
292 bgs	B17MJ1					0.12	pCi/g	U	0.57						0.60	pCi/g	U	0.66
317 bgs	B171B5	0.006	pCi/g	U	0.078						0.168	pCi/g		0.01				
317 bgs	B17MJ2					0.112	pCi/g	U	0.58						0.53	pCi/g		0.14
dup of B17116	B17123					1.03	pCi/g	B	0.54	J					0.454	pCi/g		0.20
equip blank tied to B17114	B17110					0.57	pCi/L	U	4.90						-0.114	pCi/L	U	0.35
Target Quantitation Limit						15.0												

Table B1-1. Radiochemical Analysis Results for 216-A-10 Crib (C3247) Samples

		Thorium-230				Thorium-232				Thorium-234				Tin-113				Tin-126			
Interval	HEIS	Result	Units	Q	MDA	Result	Units	Q	MDA	Result	Units	Q	MDA	Result	Units	Q	MDA	Result	Units	Q	MDA
12.5 bgs	B17113	0.481	pCi/g		0.16	0.481	pCi/g		0.16										pCi/g	U	0.21
45 bgs	B17114	0.517	pCi/g		0.26	0.862	pCi/g		0.26										pCi/g	U	0.079
52 bgs	B17115	0.702	pCi/g		0.21	0.507	pCi/g		0.075										pCi/g	U	1.10
54 bgs	B17124	0.008	pCi/g	U	0.27	0.526	pCi/g		0.065										pCi/g	U	0.85
62.5 bgs	B17116	0.581	pCi/g		0.22	0.353	pCi/g		0.073										pCi/g	U	0.30
62.5 bgs	B17122	1.10	pCi/g		0.84	0.881	pCi/g		0.84										pCi/g	U	1.50
72.5 bgs	B17117	0.356	pCi/g		0.21	0.607	pCi/g		0.07										pCi/g	U	0.13
87.5 bgs	B17118	0.397	pCi/g		0.3	0.551	pCi/g		0.17										pCi/g	U	0.10
127.5 bgs	B17119	0.321	pCi/g		0.27	0.621	pCi/g		0.15										pCi/g	U	0.16
197.5 bgs	B17120									0.515	pCi/g	U	0.62	0.002	pCi/g	U	0.014	0.176	pCi/g	U	0.20
197.5 bgs	B17MH9	0.523	pCi/g		0.29	0.428	pCi/g		0.18												
287.5 bgs	B17121									0.829	pCi/g		0.78	-0.01	pCi/g	U	0.015	0.177	pCi/g	U	0.20
287.5 bgs	B17MJ0	0.555	pCi/g		0.21	0.587	pCi/g		0.092												
292 bgs	B172M8									0.703	pCi/g	U	0.77	0.002	pCi/g	U	0.017	0.187	pCi/g	U	0.20
292 bgs	B17MJ1	0.257	pCi/g	U	0.65	0.685	pCi/g		0.65												
317 bgs	B171B5									0.498	pCi/g	U	0.53	-0.01	pCi/g	U	0.012	0.145	pCi/g	U	0.20
317 bgs	B17MJ2	0.23	pCi/g	U	0.24	0.486	pCi/g		0.085												
dup of B17116	B17123	0.959	pCi/g		0.20	0.479	pCi/g		0.20										pCi/g	U	0.19
equip blank tied to B17114	B17110	-0.028	pCi/L	U	0.27	0	pCi/L	U	0.22										pCi/L	U	32
Target Quantitation Limit						1.00															

Table B1-1. Radiochemical Analysis Results for 216-A-10 Crib (C3247) Samples

		Total beta radiostrontium				Tritium				Uranium				Uranium-233/234				Uranium-235			
Interval	HEIS	Result	Units	Q	MDA	Result	Units	Q	MDA	Result	Units	Q	MDA	Result	Units	Q	MDA	Result	Units	Q	MDA
12.5 bgs	B17113	0.002	pCi/g	U	0.29	0.166	pCi/g	U	0.30	442	ug/kg		3.00	0.39	pCi/g		0.20	0.032	pCi/g	U	0.24
45 bgs	B17114	0.015	pCi/g	U	0.29	9.45	pCi/g		0.27	514	ug/kg		3.00	0.322	pCi/g		0.14	0	pCi/g	U	0.18
52 bgs	B17115	0.637	pCi/g		0.27	145	pCi/g		0.31	1040	ug/kg		4.00	1.04	pCi/g		0.19	0.12	pCi/g	U	0.23
54 bgs	B17124	0.614	pCi/g		0.27	319	pCi/g		0.48	1650	ug/kg		4.00	1.01	pCi/g		0.18	0.227	pCi/g		0.22
62.5 bgs	B17116	11.1	pCi/g		0.24	134	pCi/g		0.30	2780	ug/kg		4.00	1.39	pCi/g		0.19	0.15	pCi/g	U	0.23
62.5 bgs	B17122	2.91	pCi/g		1.3	211	pCi/g		0.40	568	ug/kg		4.00	0.372	pCi/g	U	0.41	0	pCi/g	U	0.49
72.5 bgs	B17117	2.12	pCi/g		0.21	145	pCi/g	B	0.31	545	ug/kg		7.00	0.504	pCi/g		0.13	0.02	pCi/g	U	0.16
87.5 bgs	B17118	24.3	pCi/g		0.3	496	pCi/g		0.58	714	ug/kg		7.00	0.371	pCi/g		0.14	0.043	pCi/g	U	0.16
127.5 bgs	B17119	44.7	pCi/g		0.3	805	pCi/g		0.76	546	ug/kg		7.00	0.407	pCi/g		0.14	0.064	pCi/g	U	0.16
197.5 bgs	B17120									988	ug/kg	U		0.17	pCi/g		0.018	0.018	pCi/g		0.014
197.5 bgs	B17MH9	0.007	pCi/g	U	0.32	330	pCi/g		0.30												
287.5 bgs	B17121									943	ug/kg	U		0.15	pCi/g		0.02	0.024	pCi/g		0.005
287.5 bgs	B17MJ0	0.06	pCi/g	U	0.27	641	pCi/g		0.72												
292 bgs	B172M8									1020	ug/kg	U		0.16	pCi/g		0.005	0.012	pCi/g	U	0.015
292 bgs	B17MJ1	1.47	pCi/g		0.22	805	pCi/g		0.83												
317 bgs	B171B5									997	ug/kg	U		0.16	pCi/g		0.005	0.01	pCi/g		0.006
317 bgs	B17MJ2	0.162	pCi/g	U	0.21	835	pCi/g		0.84												
dup of B17116	B17123	5.23	pCi/g		0.26	160	pCi/g		0.33	2640	ug/kg		4.00	0.938	pCi/g		0.18	0.114	pCi/g	U	0.22
equip blank tied to B17114	B17110	0.055	pCi/L	U	0.65					0.001	ug/L	U	0.02	-0.03	pCi/L	U	0.26	0.041	pCi/L	U	0.31
Target Quantitation Limit		1.00				400				1000				1.00				1.00			

Table B1-1. Radiochemical Analysis Results for 216-A-10 Crib (C3247) Samples

		Uranium-238				Zinc-65			
Interval	HEIS	Result	Units	Q	MDA	Result	Units	Q	MDA
12.5 bgs	B17113	0.338	pCi/g		0.20				
45 bgs	B17114	0.265	pCi/g		0.14				
52 bgs	B17115	0.666	pCi/g		0.19				
54 bgs	B17124	0.703	pCi/g		0.18				
62.5 bgs	B17116	1.22	pCi/g		0.19				
62.5 bgs	B17122	0.479	pCi/g		0.41				
72.5 bgs	B17117	0.42	pCi/g		0.13				
87.5 bgs	B17118	0.495	pCi/g		0.14				
127.5 bgs	B17119	0.496	pCi/g		0.14				
197.5 bgs	B17120	0.2	pCi/g		0.005	-0.002	pCi/g	U	0.025
197.5 bgs	B17MH9								
287.5 bgs	B17121	0.11	pCi/g		0.014	-0.009	pCi/g	U	0.029
287.5 bgs	B17MJ0								
292 bgs	B172M8	0.17	pCi/g		0.014	0.046	pCi/g	U	0.036
292 bgs	B17MJ1								
317 bgs	B171B5	0.16	pCi/g		0.005	-0.006	pCi/g	U	0.02
317 bgs	B17MJ2								
dup of B17116	B17123	0.891	pCi/g		0.18				
equip blank tied to B17114	B17110	0	pCi/L	U	0.26				
Target Quantitation Limit		1.00							

B = Analyte found in associated method blank
bgs = Below ground surface
D = Sample reanalyzed at higher dilution factor
dup = Duplicate
HEIS = Hanford Environmental Information System
J = Estimated
MDA = Minimum detectable activity
Q = Qualifier
U = Undetected
UJ = Undetected, detection limit is estimated
Val Qual = Validation qualifier
X = Other Laboratory-defined flags apply as shown in the laboratory data report

Table B1-2. Metal Analysis Results for 216-A-10 Crib (C3247) Samples

		Antimony				Arsenic			Barium			Beryllium			Bismuth			Boron		
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q
12.5 bgs	B17113	480	ug/kg			4100	ug/kg		53400	ug/kg		50.0	ug/kg		530	ug/kg	U	890	ug/kg	
45 bgs	B17114	300	ug/kg			3300	ug/kg		43900	ug/kg		310	ug/kg		490	ug/kg	U	690	ug/kg	
52 bgs	B17115	297	ug/kg			3100	ug/kg		5600	ug/kg		54.0	ug/kg		549	ug/kg	U	1000	ug/kg	
54 bgs	B17124	245	ug/kg	U	UJ	2600	ug/kg		3500	ug/kg		27.0	ug/kg		567	ug/kg	U	712	ug/kg	
62.5 bgs	B17116	226	ug/kg	U	UJ	4200	ug/kg		31800	ug/kg		228	ug/kg		524	ug/kg	U	691	ug/kg	
62.5 bgs	B17122	350	ug/kg			4800	ug/kg		18000	ug/kg	C	40.0	ug/kg		570	ug/kg	U	830	ug/kg	
72.5 bgs	B17117	290	ug/kg	U		3700	ug/kg		53300	ug/kg		330	ug/kg		360	ug/kg	U	400	ug/kg	
87.5 bgs	B17118	290	ug/kg	U		3700	ug/kg		73700	ug/kg		420	ug/kg		360	ug/kg	U	470	ug/kg	
127.5 bgs	B17119	270	ug/kg	U		3400	ug/kg		55900	ug/kg		330	ug/kg		340	ug/kg	U	490	ug/kg	
197.5 bgs	B17120	4940	ug/kg	U		5190	ug/kg		49100	ug/kg		2960	ug/kg	U	4940	ug/kg	U	5040	ug/kg	U
287.5 bgs	B17121	4720	ug/kg	U		4420	ug/kg		57000	ug/kg		2830	ug/kg	U	5000	ug/kg	U	5200	ug/kg	U
292 bgs	B172M8	5080	ug/kg	U		3740	ug/kg		56300	ug/kg		3050	ug/kg	U	5000	ug/kg	U	5100	ug/kg	U
317 bgs	B171B5	4980	ug/kg	U		2990	ug/kg	U	99300	ug/kg		2990	ug/kg	U	5000	ug/kg	U	5100	ug/kg	U
dup of B17116	B17123	224	ug/kg	U		3200	ug/kg		35500	ug/kg		175	ug/kg		518	ug/kg	U	732	ug/kg	
equip blank tied to B17114	B17110	2.20	ug/L	U		3.30	ug/L	U	1.20	ug/L		0.20	ug/L		5.10	ug/L	U	11.7	ug/L	
Target Quantitation Limit		6000				10000			20000			500								

Table B1-2. Metal Analysis Results for 216-A-10 Crib (C3247) Samples

		Cadmium			Chromium			Copper			Hexavalent Chromium			Lead		
Interval	HEIS	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q
12.5 bgs	B17113	260	ug/kg		6700	ug/kg		11200	ug/kg		420	ug/kg	U	4000	ug/kg	
45 bgs	B17114	40.0	ug/kg	U	6900	ug/kg		9600	ug/kg		410	ug/kg	U	3400	ug/kg	
52 bgs	B17115	43.0	ug/kg	U	2700	ug/kg		3100	ug/kg		452	ug/kg	U	1100	ug/kg	
54 bgs	B17124	45.0	ug/kg	U	1700	ug/kg		1300	ug/kg		458	ug/kg	U	686	ug/kg	
62.5 bgs	B17116	41.0	ug/kg	U	9900	ug/kg		11200	ug/kg		436	ug/kg	U	4300	ug/kg	
62.5 bgs	B17122	120	ug/kg		8500	ug/kg		4600	ug/kg		468	ug/kg	U	2800	ug/kg	C
72.5 bgs	B17117	40.0	ug/kg	U	8500	ug/kg		9200	ug/kg		410	ug/kg	U	4900	ug/kg	
87.5 bgs	B17118	40.0	ug/kg	U	9300	ug/kg		9900	ug/kg		410	ug/kg	U	3800	ug/kg	
127.5 bgs	B17119	40.0	ug/kg	U	10300	ug/kg		10000	ug/kg		410	ug/kg	U	7700	ug/kg	
197.5 bgs	B17120	988	ug/kg	U	5030	ug/kg		7070	ug/kg	E				11900	ug/kg	U
287.5 bgs	B17121	943	ug/kg	U	13000	ug/kg		4720	ug/kg	U				11300	ug/kg	U
292 bgs	B172M8	1020	ug/kg	U	10200	ug/kg		5080	ug/kg	U				12200	ug/kg	U
317 bgs	B171B5	997	ug/kg	U	4600	ug/kg		4980	ug/kg	U				12000	ug/kg	U
dup of B17116	B17123	41.0	ug/kg	U	10100	ug/kg		9100	ug/kg		435	ug/kg	U	4000	ug/kg	
equip blank tied to B17114	B17110	0.40	ug/L	U	1.40	ug/L		1.40	ug/L					2.30	ug/L	U
Target Quantitation Limit		500			1000			2500			500			10000		

Table B1-2. Metal Analysis Results for 216-A-10 Crib (C3247) Samples

		Mercury				Nickel			Selenium			Silver		
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Result	Units	Q	Result	Units	Q
12.5 bgs	B17113	20.0	ug/kg	U		7300	ug/kg		440	ug/kg	U	130	ug/kg	U
45 bgs	B17114	40.0	ug/kg			8300	ug/kg		410	ug/kg	U	120	ug/kg	U
52 bgs	B17115	136	ug/kg			1900	ug/kg		452	ug/kg	U	129	ug/kg	U
54 bgs	B17124	99.0	ug/kg			994	ug/kg		467	ug/kg	U	133	ug/kg	U
62.5 bgs	B17116	739	ug/kg		J	11400	ug/kg		432	ug/kg	U	123	ug/kg	U
62.5 bgs	B17122	30.0	ug/kg			5400	ug/kg		470	ug/kg	U	130	ug/kg	U
72.5 bgs	B17117	20.0	ug/kg			8500	ug/kg		290	ug/kg	U	80.0	ug/kg	U
87.5 bgs	B17118	80.0	ug/kg			9600	ug/kg		290	ug/kg	U	80.0	ug/kg	U
127.5 bgs	B17119	20.0	ug/kg			11300	ug/kg		270	ug/kg	U	80.0	ug/kg	U
197.5 bgs	B17120	988	ug/kg	U		10300	ug/kg		2960	ug/kg	U	2170	ug/kg	
287.5 bgs	B17121	943	ug/kg	U		13500	ug/kg		2980	ug/kg		1890	ug/kg	U
292 bgs	B172M8	1020	ug/kg	U		9400	ug/kg		3050	ug/kg	U	2030	ug/kg	U
317 bgs	B171B5	997	ug/kg	U		7260	ug/kg		3570	ug/kg		3080	ug/kg	
dup of B17116	B17123	1250	ug/kg			9300	ug/kg		427	ug/kg	U	122	ug/kg	U
equip blank tied to B17114	B17110	0.10	ug/L			2.80	ug/L		4.20	ug/L	U	1.20	ug/L	U
Target Quantitation Limit		200				4000			10000			2000		

bgs = Below ground surface
C = Identification of the pesticide confirmed by gas chromatograph/mass spectrometer
dup = Duplicate
HEIS = Hanford Environmental Information System
J = Estimated
Q = Qualifier
U = Undetected
UJ = Undetected, detection limit is estimated
Val Qual = Validation qualifier

Table B1-3. General Inorganic Analysis Results for 216-A-10 Crib (C3247) Samples

		Ammonia as N			Chloride			Cyanide			Fluoride			Nitrate as N			Nitrite as N		
Interval	HEIS	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q
12.5 bgs	B17113	4700	ug/kg	U	1300	ug/kg	U	480	ug/kg	U	1300	ug/kg	U	857	ug/kg	U	404	ug/kg	
45 bgs	B17114	5200	ug/kg	U	1300	ug/kg	U	310	ug/kg	U	1300	ug/kg	U	1316	ug/kg	U	389	ug/kg	
52 bgs	B17115	6500	ug/kg	U	1410	ug/kg	U	533	ug/kg	U	1410	ug/kg	U	26800	ug/kg		429	ug/kg	U
54 bgs	B17124	5300	ug/kg	U	1430	ug/kg	U	499	ug/kg	U	1430	ug/kg	U	542	ug/kg		435	ug/kg	U
62.5 bgs	B17116	4400	ug/kg	U	1360	ug/kg	U	530	ug/kg	U	1360	ug/kg	U	306	ug/kg	U	413	ug/kg	U
62.5 bgs	B17122	6900	ug/kg	U	1460	ug/kg	U	532	ug/kg	U	1460	ug/kg	U	329	ug/kg	U	444	ug/kg	U
72.5 bgs	B17117	4800	ug/kg	U	1300	ug/kg	U	510	ug/kg	U	1300	ug/kg	U	290	ug/kg	U	392	ug/kg	U
72.5 bgs	B17125																		
87.5 bgs	B17118	5000	ug/kg	U	1300	ug/kg	U	450	ug/kg	U	1900	ug/kg		853	ug/kg		392	ug/kg	U
127.5 bgs	B17119	4500	ug/kg	U	1300	ug/kg	U	470	ug/kg	U	1300	ug/kg	U	866	ug/kg		386	ug/kg	U
197.5 bgs	B17120	200	ug/kg	U	2690	ug/kg	B	200	ug/kg	U	1150	ug/kg	U	1390	ug/kg	B	950	ug/kg	U
197.5 bgs	B17MH9																		
287.5 bgs	B17121	200	ug/kg	U	6430	ug/kg	B	200	ug/kg	U	1150	ug/kg	U	17900	ug/kg		950	ug/kg	U
287.5 bgs	B17MJ0																		
292 bgs	B172M8	200	ug/kg	U	3780	ug/kg		200	ug/kg	U	1150	ug/kg	U	10700	ug/kg		950	ug/kg	U
292 bgs	B17MJ1																		
317 bgs	B17127																		
317 bgs	B171B5	452	ug/kg	B	2600	ug/kg	U	200	ug/kg	U	1150	ug/kg	U	23600	ug/kg		950	ug/kg	U
317 bgs	B17MJ2																		
dup of B17116	B17123	5400	ug/kg	U	1360	ug/kg	U	541	ug/kg	U	1390	ug/kg		306	ug/kg	U	413	ug/kg	U
equip blank tied to B17114	B17110	100	ug/L	U	250	ug/L	U	5.00	ug/L	U	250	ug/L	U	56.0	ug/L	U	76.0	ug/L	U
Target Quantitation Limit		500			2000			500			5000			2500			2500		

Table B1-3. General Inorganic Analysis Results for 216-A-10 Crib (C3247) Samples

		Nitrogen in Nitrite and Nitrate			Percent moisture (dry sample)			Percent moisture (wet sample)			Percent Solids		
Interval	HEIS	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q
12.5 bgs	B17113	1000	ug/kg										
45 bgs	B17114	1400	ug/kg										
52 bgs	B17115	25800	ug/kg										
54 bgs	B17124	1090	ug/kg										
62.5 bgs	B17116	179	ug/kg	U									
62.5 bgs	B17122	228	ug/kg	U									
72.5 bgs	B17117	260	ug/kg										
72.5 bgs	B17125				3.80	%		4.00	%		96.2	%	
87.5 bgs	B17118	7800	ug/kg										
127.5 bgs	B17119	760	ug/kg										
197.5 bgs	B17120												
197.5 bgs	B17MH9	1100	ug/kg										
287.5 bgs	B17121												
287.5 bgs	B17MJ0	17800	ug/kg										
292 bgs	B172M8												
292 bgs	B17MJ1	16000	ug/kg										
317 bgs	B17127				3.20	%		3.30	%				
317 bgs	B171B5												
317 bgs	B17MJ2	23800	ug/kg										
dup of B17116	B17123	213	ug/kg	U									
equip blank tied to B17114	B17110	20.0	ug/L	U									
Target Quantitation Limit													

Table B1-3. General Inorganic Analysis Results for 216-A-10 Crib (C3247) Samples

		pH Measurement			Phosphate			Sulfate		
Interval	HEIS	Result	Units	Q	Result	Units	Q	Result	Units	Q
12.5 bgs	B17113	9.20	pH		1300	ug/kg	U	1300	ug/kg	U
45 bgs	B17114	9.10	pH		1300	ug/kg	U	3300	ug/kg	
52 bgs	B17115	6.52	pH		26900	ug/kg		21600	ug/kg	
54 bgs	B17124	6.35	pH		15000	ug/kg		26400	ug/kg	
62.5 bgs	B17116	6.91	pH		1360	ug/kg	U	35600	ug/kg	
62.5 bgs	B17122	5.49	pH		2790	ug/kg		7100	ug/kg	
72.5 bgs	B17117	7.70	pH		1300	ug/kg	U	8900	ug/kg	
72.5 bgs	B17125									
87.5 bgs	B17118	8.80	pH		1300	ug/kg	U	3900	ug/kg	
127.5 bgs	B17119	9.30	pH		1300	ug/kg	U	6100	ug/kg	
197.5 bgs	B17120	8.84	pH		2700	ug/kg	U	10300	ug/kg	B
197.5 bgs	B17MH9									
287.5 bgs	B17121	8.71	pH		2700	ug/kg	U	5000	ug/kg	U
287.5 bgs	B17MJ0									
292 bgs	B172M8	8.50	pH		2700	ug/kg	U	5000	ug/kg	U
292 bgs	B17MJ1									
317 bgs	B17127									
317 bgs	B171B5	8.55	pH		2700	ug/kg	U	20200	ug/kg	B
317 bgs	B17MJ2									
dup of B17116	B17123	7.18	pH		1360	ug/kg	U	35100	ug/kg	
equip blank tied to B17114	B17110				250	ug/L	U	250	ug/L	U
Target Quantitation Limit					5000			5000		

B = Analyte found in associated method blank
bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
Q = Qualifier
U = Undetected

Table B1-4. Volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		1 1 1-Trichloroethane			1 1 2 2-Tetrachloroethane			1 1 2-Trichloroethane			1 1-Dichloroethane			1 1-Dichloroethene		
Interval	HEIS	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q
45 bgs	B17114	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U
52 bgs	B17115	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U
54 bgs	B17124	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U
62.5 bgs	B17116	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U
62.5 bgs	B17122	660	ug/kg	U	660	ug/kg	U	660	ug/kg	U	660	ug/kg	U	660	ug/kg	U
72.5 bgs	B17117	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U
87.5 bgs	B17118	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U
127.5 bgs	B17119	5.00	ug/kg	U	5.00	ug/kg	U	5.00	ug/kg	U	5.00	ug/kg	U	5.00	ug/kg	U
197.5 bgs	B17120	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U
287.5 bgs	B17121	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U
292 bgs	B172M8	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U
317 bgs	B171B5	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U
dup of B17116	B17123	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U
equip blank tied to B17114	B17110	5.00	ug/L	U	5.00	ug/L	U	5.00	ug/L	U	5.00	ug/L	U	5.00	ug/L	U
trip blank tied to B17120	B17111	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U
Target Quantitation Limit		5.00									10.0					

Table B1-4. Volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		1 2-Dichloroethane			1 2-Dichloroethene(Total)			1 2-Dichloropropane			1-Butanol			2-Butanone			2-Hexanone		
Interval	HEIS	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q
45 bgs	B17114	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U				11.0	ug/kg	U	11.0	ug/kg	U
52 bgs	B17115	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U				13.0	ug/kg	U	13.0	ug/kg	U
54 bgs	B17124	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U				13.0	ug/kg	U	13.0	ug/kg	U
62.5 bgs	B17116	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U				17.6	ug/kg		11.0	ug/kg	U
62.5 bgs	B17122	660	ug/kg	U	660	ug/kg	U	660	ug/kg	U				1300	ug/kg	U	1300	ug/kg	U
72.5 bgs	B17117	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U				11.0	ug/kg	U	11.0	ug/kg	U
87.5 bgs	B17118	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U				11.0	ug/kg	U	11.0	ug/kg	U
127.5 bgs	B17119	5.00	ug/kg	U	5.00	ug/kg	U	5.00	ug/kg	U				10.0	ug/kg	U	10.0	ug/kg	U
197.5 bgs	B17120	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	41.0	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U
287.5 bgs	B17121	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	41.0	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U
292 bgs	B172M8	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	40.0	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U
317 bgs	B171B5	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	41.0	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U
dup of B17116	B17123	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U				14.4	ug/kg		11.0	ug/kg	U
equip blank tied to B17114	B17110	5.00	ug/L	U	5.00	ug/L	U	5.00	ug/L	U				10.0	ug/L	U	10.0	ug/L	U
trip blank tied to B17120	B17111	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U				1.00	ug/L	U	1.00	ug/L	U
Target Quantitation Limit		5.00			10.0						5000			10.0					

Table B1-4. Volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		2-Pentanone			4-Methyl-2-Pentanone			Acetone			Benzene			Bromodichloromethane			Bromoform		
Interval	HEIS	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q
45 bgs	B17114				11.0	ug/kg	U	3.00	ug/kg	JB	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U
52 bgs	B17115				13.0	ug/kg	U	13.0	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U
54 bgs	B17124				13.0	ug/kg	U	22.1	ug/kg		6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U
62.5 bgs	B17116				11.0	ug/kg	U	137.9	ug/kg	B	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U
62.5 bgs	B17122				1300	ug/kg	U	1300	ug/kg	U	660	ug/kg	U	660	ug/kg	U	660	ug/kg	U
72.5 bgs	B17117	11.0	ug/kg	U	11.0	ug/kg	U	11.0	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U
87.5 bgs	B17118	11.0	ug/kg	U	11.0	ug/kg	U	11.0	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U
127.5 bgs	B17119	10.0	ug/kg	U	10.0	ug/kg	U	10.0	ug/kg	U	5.00	ug/kg	U	5.00	ug/kg	U	5.00	ug/kg	U
197.5 bgs	B17120	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U
287.5 bgs	B17121	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U
292 bgs	B172M8	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U
317 bgs	B171B5	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U
dup of B17116	B17123				11.0	ug/kg	U	34.721	ug/kg	B	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U
equip blank tied to B17114	B17110				10.0	ug/L	U	10.0	ug/L	U	5.00	ug/L	U	5.00	ug/L	U	5.00	ug/L	U
trip blank tied to B17120	B17111	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U
Target Quantitation Limit					10.0			20.0			5.00								

Table B1-4. Volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Bromomethane			Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chloroethane			Chloroform		
Interval	HEIS	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q
45 bgs	B17114	11.0	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	11.0	ug/kg	U	6.00	ug/kg	U
52 bgs	B17115	13.0	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	13.0	ug/kg	U	6.00	ug/kg	U
54 bgs	B17124	13.0	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	13.0	ug/kg	U	6.00	ug/kg	U
62.5 bgs	B17116	11.0	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	11.0	ug/kg	U	6.00	ug/kg	U
62.5 bgs	B17122	1300	ug/kg	U	660	ug/kg	U	660	ug/kg	U	660	ug/kg	U	1300	ug/kg	U	660	ug/kg	U
72.5 bgs	B17117	11.0	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	11.0	ug/kg	U	6.00	ug/kg	U
87.5 bgs	B17118	11.0	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	11.0	ug/kg	U	6.00	ug/kg	U
127.5 bgs	B17119	10.0	ug/kg	U	5.00	ug/kg	U	5.00	ug/kg	U	5.00	ug/kg	U	10.0	ug/kg	U	5.00	ug/kg	U
197.5 bgs	B17120	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U
287.5 bgs	B17121	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U
292 bgs	B172M8	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U
317 bgs	B171B5	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U
dup of B17116	B17123	11.0	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	11.0	ug/kg	U	6.00	ug/kg	U
equip blank tied to B17114	B17110	10.0	ug/L	U	5.00	ug/L	U	5.00	ug/L	U	5.00	ug/L	U	10.0	ug/L	U	5.00	ug/L	U
trip blank tied to B17120	B17111	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U
Target Quantitation Limit								5.00			5.00						5.00		

Table B1-4. Volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Chloromethane			cis-1 3-Dichloropropene			Dibromochloromethane			Ethylbenzene			Methylenechloride			n-Butylbenzene		
Interval	HEIS	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q
45 bgs	B17114	11.0	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	21.0	ug/kg	B			
52 bgs	B17115	13.0	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	19.6	ug/kg				
54 bgs	B17124	13.0	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	23.0	ug/kg				
62.5 bgs	B17116	11.0	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	29.1	ug/kg	B	6.00	ug/kg	U
62.5 bgs	B17122	1300	ug/kg	U	660	ug/kg	U	660	ug/kg	U	660	ug/kg	U	660	ug/kg	U	660	ug/kg	U
72.5 bgs	B17117	11.0	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	19.0	ug/kg	B	6.00	ug/kg	U
87.5 bgs	B17118	11.0	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	19.0	ug/kg	B	6.00	ug/kg	U
127.5 bgs	B17119	10.0	ug/kg	U	5.00	ug/kg	U	5.00	ug/kg	U	5.00	ug/kg	U	14.0	ug/kg	B	5.00	ug/kg	U
197.5 bgs	B17120	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	7.00	ug/kg	BJ	2.00	ug/kg	U
287.5 bgs	B17121	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	6.00	ug/kg	BJ	2.10	ug/kg	U
292 bgs	B172M8	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U
317 bgs	B171B5	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U
dup of B17116	B17123	11.0	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	26.9	ug/kg	B	6.00	ug/kg	U
equip blank tied to B17114	B17110	10.0	ug/L	U	5.00	ug/L	U	5.00	ug/L	U	5.00	ug/L	U	5.00	ug/L	U	5.00	ug/L	U
trip blank tied to B17120	B17111	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U
Target Quantitation Limit											5.00			5.00			5.00		

Table B1-4. Volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Styrene			Tetrachloroethene			Toluene			trans-1 3-Dichloropropene			Trichloroethene		
Interval	HEIS	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q
45 bgs	B17114	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U
52 bgs	B17115	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U
54 bgs	B17124	6.00	ug/kg	U	6.00	ug/kg	U	1.72	ug/kg	J	6.00	ug/kg	U	6.00	ug/kg	U
62.5 bgs	B17116	6.00	ug/kg	U	6.00	ug/kg	U	1.24	ug/kg	J	6.00	ug/kg	U	6.00	ug/kg	U
62.5 bgs	B17122	660	ug/kg	U	660	ug/kg	U	250	ug/kg	J	660	ug/kg	U	660	ug/kg	U
72.5 bgs	B17117	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U
87.5 bgs	B17118	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U	6.00	ug/kg	U
127.5 bgs	B17119	5.00	ug/kg	U	5.00	ug/kg	U	5.00	ug/kg	U	5.00	ug/kg	U	5.00	ug/kg	U
197.5 bgs	B17120	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U
287.5 bgs	B17121	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U
292 bgs	B172M8	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U	2.00	ug/kg	U
317 bgs	B171B5	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U	2.10	ug/kg	U
dup of B17116	B17123	6.00	ug/kg	U	6.00	ug/kg	U	1.57	ug/kg	J	6.00	ug/kg	U	6.00	ug/kg	U
equip blank tied to B17114	B17110	5.00	ug/L	U	5.00	ug/L	U	5.00	ug/L	U	5.00	ug/L	U	5.00	ug/L	U
trip blank tied to B17120	B17111	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U	1.00	ug/L	U
Target Quantitation Limit					5.00			5.00						5.00		

Table B1-4. Volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Vinyl chloride			Xylenes (total)		
Interval	HEIS	Result	Units	Q	Result	Units	Q
45 bgs	B17114	11.0	ug/kg	U	6.00	ug/kg	U
52 bgs	B17115	13.0	ug/kg	U	6.00	ug/kg	U
54 bgs	B17124	13.0	ug/kg	U	6.00	ug/kg	U
62.5 bgs	B17116	11.0	ug/kg	U	6.00	ug/kg	U
62.5 bgs	B17122	1300	ug/kg	U	660	ug/kg	U
72.5 bgs	B17117	11.0	ug/kg	U	6.00	ug/kg	U
87.5 bgs	B17118	11.0	ug/kg	U	6.00	ug/kg	U
127.5 bgs	B17119	10.0	ug/kg	U	5.00	ug/kg	U
197.5 bgs	B17120	2.00	ug/kg	U	2.00	ug/kg	U
287.5 bgs	B17121	2.10	ug/kg	U	2.10	ug/kg	U
292 bgs	B172M8	2.00	ug/kg	U	2.00	ug/kg	U
317 bgs	B171B5	2.10	ug/kg	U	2.10	ug/kg	U
dup of B17116	B17123	11.0	ug/kg	U	6.00	ug/kg	U
equip blank tied to B17114	B17110	10.0	ug/L	U	5.00	ug/L	U
trip blank tied to B17120	B17111	1.00	ug/L	U	1.00	ug/L	U
Target Quantitation Limit					5.00		

B = Analyte found in associated method blank
bgs = Below ground surface
dup = Duplicate
E = Estimated
HEIS = Hanford Environmental Information System
J = Estimated
Q = Qualifier
U = Undetected

Table B1-5. Semi-volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		1 2 4-Trichlorobenzene				1 2-Dichlorobenzene				1 3-Dichlorobenzene				1 4-Dichlorobenzene			
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual
12.5 bgs	B17113	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
45 bgs	B17114	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
52 bgs	B17115	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ
54 bgs	B17124	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ
62.5 bgs	B17116	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
62.5 bgs	B17122	78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U	
72.5 bgs	B17117	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
87.5 bgs	B17118	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
127.5 bgs	B17119	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
197.5 bgs	B17120	300	ug/kg	U		360	ug/kg	U		320	ug/kg	U		320	ug/kg	U	
287.5 bgs	B17121	300	ug/kg	U		370	ug/kg	U		330	ug/kg	U		320	ug/kg	U	
292 bgs	B172M8	300	ug/kg	U		370	ug/kg	U		330	ug/kg	U		320	ug/kg	U	
317 bgs	B171B5	300	ug/kg	U		370	ug/kg	U		330	ug/kg	U		320	ug/kg	U	
dup of B17116	B17123	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ
equip blank tied to B17114	B17110	12.0	ug/L	U		12.0	ug/L	U		12.0	ug/L	U		12.0	ug/L	U	
Target Quantitation Limit																	

Table B1-5. Semi-volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		1-Chloropropane				2 4 5-Trichlorophenol				2 4 6-Trichlorophenol				2 4-Dichlorophenol			
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual
12.5 bgs	B17113					890	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
45 bgs	B17114					860	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
52 bgs	B17115	380	ug/kg		J	940	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ
54 bgs	B17124	38000	ug/kg	U	UJ	96000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ
62.5 bgs	B17116					900	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
62.5 bgs	B17122					200000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U	
72.5 bgs	B17117	340	ug/kg	U		860	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
87.5 bgs	B17118	340	ug/kg	U		860	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
127.5 bgs	B17119	340	ug/kg	U		850	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
197.5 bgs	B17120					74.0	ug/kg	U		68.0	ug/kg	U		81.0	ug/kg	U	
287.5 bgs	B17121					75.0	ug/kg	U		68.0	ug/kg	U		82.0	ug/kg	U	
292 bgs	B172M8					76.0	ug/kg	U		69.0	ug/kg	U		83.0	ug/kg	U	
317 bgs	B171B5					75.0	ug/kg	U		69.0	ug/kg	U		82.0	ug/kg	U	
dup of B17116	B17123	36000	ug/kg	U	UJ	90000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ
equip blank tied to B17114	B17110	12.0	ug/kg	U		30.0	ug/L	U		12.0	ug/L	U		12.0	ug/L	U	
Target Quantitation Limit																	

Table B1-5. Semi-volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		2 4-Dimethylphenol				2 4-Dinitrophenol				2 4-Dinitrotoluene				2 6-Dinitrotoluene			
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual
12.5 bgs	B17113	360	ug/kg	U		890	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
45 bgs	B17114	340	ug/kg	U		860	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
52 bgs	B17115	380	ug/kg	U	UJ	940	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ
54 bgs	B17124	38000	ug/kg	U	UJ	96000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ
62.5 bgs	B17116	360	ug/kg	U		900	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
62.5 bgs	B17122	78000	ug/kg	U		200000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U	
72.5 bgs	B17117	340	ug/kg	U		860	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
87.5 bgs	B17118	340	ug/kg	U		860	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
127.5 bgs	B17119	340	ug/kg	U		850	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
197.5 bgs	B17120	68.0	ug/kg	U		680	ug/kg	U		68.0	ug/kg	U		68.0	ug/kg	U	
287.5 bgs	B17121	68.0	ug/kg	U		680	ug/kg	U		68.0	ug/kg	U		68.0	ug/kg	U	
292 bgs	B172M8	69.0	ug/kg	U		690	ug/kg	U		69.0	ug/kg	U		69.0	ug/kg	U	
317 bgs	B171B5	69.0	ug/kg	U		690	ug/kg	U		69.0	ug/kg	U		69.0	ug/kg	U	
dup of B17116	B17123	36000	ug/kg	UD	UJ	90000	ug/kg	UD	UJ	36000	ug/kg	UD		36000	ug/kg	UD	UJ
equip blank tied to B17114	B17110	12.0	ug/L	U		30.0	ug/L	U		12.0	ug/L	U		12.0	ug/L	U	
Target Quantitation Limit																	

Table B1-5. Semi-volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		2-Butoxyethanol				2-Chloronaphthalene				2-Chlorophenol				2-Methylnaphthalene			
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual
12.5 bgs	B17113	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
45 bgs	B17114	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
52 bgs	B17115	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ
54 bgs	B17124	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ
62.5 bgs	B17116	25.557	ug/kg	J		360	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
62.5 bgs	B17122	78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U	
72.5 bgs	B17117	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
87.5 bgs	B17118	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
127.5 bgs	B17119	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
197.5 bgs	B17120	100	ug/kg	U		68.0	ug/kg	U		150	ug/kg	U		180	ug/kg	U	
287.5 bgs	B17121	100	ug/kg	U		68.0	ug/kg	U		150	ug/kg	U		180	ug/kg	U	
292 bgs	B172M8	100	ug/kg	U		69.0	ug/kg	U		150	ug/kg	U		190	ug/kg	U	
317 bgs	B171B5	100	ug/kg	U		69.0	ug/kg	U		150	ug/kg	U		190	ug/kg	U	
dup of B17116	B17123	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ
equip blank tied to B17114	B17110	12.0	ug/L	U		12.0	ug/L	U		12.0	ug/L	U		12.0	ug/L	U	
Target Quantitation Limit																	

Table B1-5. Semi-volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		2-Methylphenol (cresol o-)				2-Nitroaniline				2-Nitrophenol				3 3'-Dichlorobenzidine			
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual
12.5 bgs	B17113	360	ug/kg	U		890	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
45 bgs	B17114	340	ug/kg	U		860	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
52 bgs	B17115	380	ug/kg	U	UJ	940	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ
54 bgs	B17124	38000	ug/kg	U	UJ	96000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ
62.5 bgs	B17116	360	ug/kg	U		900	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
62.5 bgs	B17122	78000	ug/kg	U		200000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U	
72.5 bgs	B17117	340	ug/kg	U		860	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
87.5 bgs	B17118	340	ug/kg	U		860	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
127.5 bgs	B17119	340	ug/kg	U		850	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
197.5 bgs	B17120	68.0	ug/kg	U		68.0	ug/kg	U		180	ug/kg	U		81.0	ug/kg	U	
287.5 bgs	B17121	68.0	ug/kg	U		68.0	ug/kg	U		180	ug/kg	U		82.0	ug/kg	U	
292 bgs	B172M8	69.0	ug/kg	U		69.0	ug/kg	U		180	ug/kg	U		83.0	ug/kg	U	
317 bgs	B171B5	69.0	ug/kg	U		69.0	ug/kg	U		180	ug/kg	U		82.0	ug/kg	U	
dup of B17116	B17123	36000	ug/kg	UD	UJ	90000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ
equip blank tied to B17114	B17110	12.0	ug/L	U		30.0	ug/L	U		12.0	ug/L	U		12.0	ug/L	U	
Target Quantitation Limit																	

Table B1-5. Semi-volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		3+4 Methylphenol (cresol m+p)			3-Nitroaniline				4 6-Dinitro-2-methylphenol				4-Bromophenylphenyl ether			
Interval	HEIS	Result	Units	Q	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual
12.5 bgs	B17113				890	ug/kg	U		890	ug/kg	U		360	ug/kg	U	
45 bgs	B17114				860	ug/kg	U		860	ug/kg	U		340	ug/kg	U	
52 bgs	B17115				940	ug/kg	U	UJ	940	ug/kg	U	UJ	380	ug/kg	U	UJ
54 bgs	B17124				96000	ug/kg	U	UJ	96000	ug/kg	U	UJ	38000	ug/kg	U	UJ
62.5 bgs	B17116				900	ug/kg	U		900	ug/kg	U		360	ug/kg	U	
62.5 bgs	B17122				200000	ug/kg	U		200000	ug/kg	U		78000	ug/kg	U	
72.5 bgs	B17117	340	ug/kg	U	860	ug/kg	U		860	ug/kg	U		340	ug/kg	U	
87.5 bgs	B17118	340	ug/kg	U	860	ug/kg	U		860	ug/kg	U		340	ug/kg	U	
127.5 bgs	B17119	340	ug/kg	U	850	ug/kg	U		850	ug/kg	U		340	ug/kg	U	
197.5 bgs	B17120	110	ug/kg	U	68.0	ug/kg	U		680	ug/kg	U		68.0	ug/kg	U	
287.5 bgs	B17121	120	ug/kg	U	68.0	ug/kg	U		680	ug/kg	U		68.0	ug/kg	U	
292 bgs	B172M8	120	ug/kg	U	69.0	ug/kg	U		690	ug/kg	U		69.0	ug/kg	U	
317 bgs	B171B5	120	ug/kg	U	69.0	ug/kg	U		690	ug/kg	U		69.0	ug/kg	U	
dup of B17116	B17123				90000	ug/kg	UD	UJ	90000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ
equip blank tied to B17114	B17110				30.0	ug/L	U		30.0	ug/L	U		12.0	ug/L	U	
Target Quantitation Limit																

Table B1-5. Semi-volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		4-Chloro-3-methylphenol				4-Chloroaniline				4-Chlorophenylphenyl ether				4-Methylphenol (cresol p-)			
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual
12.5 bgs	B17113	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
45 bgs	B17114	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
52 bgs	B17115	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ
54 bgs	B17124	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ
62.5 bgs	B17116	360	ug/kg	U	UJ	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
62.5 bgs	B17122	78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U	
72.5 bgs	B17117	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
87.5 bgs	B17118	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
127.5 bgs	B17119	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
197.5 bgs	B17120	68.0	ug/kg	U		95.0	ug/kg	U		68.0	ug/kg	U					
287.5 bgs	B17121	68.0	ug/kg	U		96.0	ug/kg	U		68.0	ug/kg	U					
292 bgs	B172M8	69.0	ug/kg	U		96.0	ug/kg	U		69.0	ug/kg	U					
317 bgs	B171B5	69.0	ug/kg	U		96.0	ug/kg	U		69.0	ug/kg	U					
dup of B17116	B17123	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ
equip blank tied to B17114	B17110	12.0	ug/L	U		12.0	ug/L	U		12.0	ug/L	U		12.0	ug/L	U	
Target Quantitation Limit																	

Table B1-5. Semi-volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		4-Nitroaniline				4-Nitrophenol				Acenaphthene				Acenaphthylene			
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual
12.5 bgs	B17113	890	ug/kg	U		890	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
45 bgs	B17114	860	ug/kg	U		860	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
52 bgs	B17115	940	ug/kg	U	UJ	940	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ
54 bgs	B17124	96000	ug/kg	U	UJ	96000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ
62.5 bgs	B17116	900	ug/kg	U		900	ug/kg	U	UJ	360	ug/kg	U		360	ug/kg	U	
62.5 bgs	B17122	200000	ug/kg	U		200000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U	
72.5 bgs	B17117	860	ug/kg	U		860	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
87.5 bgs	B17118	860	ug/kg	U		860	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
127.5 bgs	B17119	850	ug/kg	U		850	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
197.5 bgs	B17120	250	ug/kg	U		660	ug/kg	U		68.0	ug/kg	U		81.0	ug/kg	U	
287.5 bgs	B17121	250	ug/kg	U		660	ug/kg	U		68.0	ug/kg	U		82.0	ug/kg	U	
292 bgs	B172M8	250	ug/kg	U		670	ug/kg	U		69.0	ug/kg	U		83.0	ug/kg	U	
317 bgs	B171B5	250	ug/kg	U		660	ug/kg	U		69.0	ug/kg	U		82.0	ug/kg	U	
dup of B17116	B17123	90000	ug/kg	UD	UJ	90000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ
equip blank tied to B17114	B17110	30.0	ug/L	U		30.0	ug/L	U		12.0	ug/L	U		12.0	ug/L	U	
Target Quantitation Limit																	

Table B1-5. Semi-volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Anthracene				Benzo(a)anthracene				Benzo(a)pyrene				Benzo(b)fluoranthene			
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual
12.5 bgs	B17113	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
45 bgs	B17114	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
52 bgs	B17115	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ
54 bgs	B17124	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ
62.5 bgs	B17116	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
62.5 bgs	B17122	78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U	
72.5 bgs	B17117	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
87.5 bgs	B17118	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
127.5 bgs	B17119	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
197.5 bgs	B17120	68.0	ug/kg	U		68.0	ug/kg	U		68.0	ug/kg	U		68.0	ug/kg	U	
287.5 bgs	B17121	68.0	ug/kg	U		68.0	ug/kg	U		68.0	ug/kg	U		68.0	ug/kg	U	
292 bgs	B172M8	69.0	ug/kg	U		69.0	ug/kg	U		69.0	ug/kg	U		69.0	ug/kg	U	
317 bgs	B171B5	69.0	ug/kg	U		69.0	ug/kg	U		69.0	ug/kg	U		69.0	ug/kg	U	
dup of B17116	B17123	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ
equip blank tied to B17114	B17110	12.0	ug/L	U		12.0	ug/L	U		12	ug/L	U		12	ug/L	U	
Target Quantitation Limit																	

Table B1-5. Semi-volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Benzo(ghi)perylene				Benzo(k)fluoranthene				Benzyl alcohol				Bis(2-chloro-1-methylethyl)ether			
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual
12.5 bgs	B17113	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
45 bgs	B17114	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
52 bgs	B17115	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ
54 bgs	B17124	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ
62.5 bgs	B17116	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
62.5 bgs	B17122	78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U	
72.5 bgs	B17117	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
87.5 bgs	B17118	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
127.5 bgs	B17119	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
197.5 bgs	B17120	68.0	ug/kg	U		68.0	ug/kg	U		74.0	ug/kg	U		260	ug/kg	U	
287.5 bgs	B17121	68.0	ug/kg	U		68.0	ug/kg	U		75.0	ug/kg	U		260	ug/kg	U	
292 bgs	B172M8	69.0	ug/kg	U		69.0	ug/kg	U		76.0	ug/kg	U		260	ug/kg	U	
317 bgs	B171B5	69.0	ug/kg	U		69.0	ug/kg	U		75.0	ug/kg	U		260	ug/kg	U	
dup of B17116	B17123	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ
equip blank tied to B17114	B17110	12	ug/L	U		12.0	ug/L	U		12.0	ug/L	U		12.0	ug/L	U	
Target Quantitation Limit																	

Table B1-5. Semi-volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Bis(2-Chloroethoxy)methane				Bis(2-chloroethyl) ether				Bis(2-ethylhexyl) phthalate				Butylbenzylphthalate			
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual
12.5 bgs	B17113	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
45 bgs	B17114	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
52 bgs	B17115	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ
54 bgs	B17124	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ
62.5 bgs	B17116	360	ug/kg	U		360	ug/kg	U		140.836	ug/kg	J		360	ug/kg	U	
62.5 bgs	B17122	78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U	
72.5 bgs	B17117	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
87.5 bgs	B17118	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
127.5 bgs	B17119	340	ug/kg	U		340	ug/kg	U		20.0	ug/kg	J		340	ug/kg	U	
197.5 bgs	B17120	110	ug/kg	U		250	ug/kg	U		570	ug/kg	U		68	ug/kg	U	
287.5 bgs	B17121	120	ug/kg	U		250	ug/kg	U		570	ug/kg	U		68	ug/kg	U	
292 bgs	B172M8	120	ug/kg	U		250	ug/kg	U		580	ug/kg	U		69	ug/kg	U	
317 bgs	B171B5	120	ug/kg	U		250	ug/kg	U		580	ug/kg	U		69	ug/kg	U	
dup of B17116	B17123	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ
equip blank tied to B17114	B17110	12.0	ug/L	U		12.0	ug/L	U		2	ug/L	JB		12.0	ug/L	U	
Target Quantitation Limit																	

Table B1-5. Semi-volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Carbazole				Chrysene				Dibenz[a h]anthracene			
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual
12.5 bgs	B17113	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
45 bgs	B17114	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
52 bgs	B17115	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ
54 bgs	B17124	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ
62.5 bgs	B17116	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
62.5 bgs	B17122	78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U	
72.5 bgs	B17117	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
87.5 bgs	B17118	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
127.5 bgs	B17119	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
197.5 bgs	B17120	81.0	ug/kg	U		68.0	ug/kg	U		68.0	ug/kg	U	
287.5 bgs	B17121	82.0	ug/kg	U		68.0	ug/kg	U		68.0	ug/kg	U	
292 bgs	B172M8	83.0	ug/kg	U		69.0	ug/kg	U		69.0	ug/kg	U	
317 bgs	B171B5	82.0	ug/kg	U		69.0	ug/kg	U		69.0	ug/kg	U	
dup of B17116	B17123	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ
equip blank tied to B17114	B17110	12.0	ug/L	U		12.0	ug/L	U		12.0	ug/L	U	
Target Quantitation Limit													

Table B1-5. Semi-volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Dibenzofuran				Diethylphthalate				Dimethyl phthalate				Di-n-butylphthalate			
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual
12.5 bgs	B17113	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
45 bgs	B17114	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
52 bgs	B17115	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ
54 bgs	B17124	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ
62.5 bgs	B17116	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
62.5 bgs	B17122	78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U	
72.5 bgs	B17117	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
87.5 bgs	B17118	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
127.5 bgs	B17119	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
197.5 bgs	B17120	68.0	ug/kg	U		260	ug/kg			68.0	ug/kg	U		88.0	ug/kg	U	
287.5 bgs	B17121	68.0	ug/kg	U		340	ug/kg			68.0	ug/kg	U		89.0	ug/kg	U	
292 bgs	B172M8	69.0	ug/kg	U		190	ug/kg	U		69.0	ug/kg	U		90.0	ug/kg	U	
317 bgs	B171B5	69.0	ug/kg	U		390	ug/kg			69.0	ug/kg	U		89.0	ug/kg	U	
dup of B17116	B17123	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ
equip blank tied to B17114	B17110	12.0	ug/L	U		0.80	ug/L	J		12.0	ug/L	U		2.00	ug/L	JB	
Target Quantitation Limit																	

Table B1-5. Semi-volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Di-n-octylphthalate				Eicosane			Fluoranthene				Fluorene			
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual
12.5 bgs	B17113	360	ug/kg	U					360	ug/kg	U		360	ug/kg	U	
45 bgs	B17114	340	ug/kg	U					340	ug/kg	U		340	ug/kg	U	
52 bgs	B17115	380	ug/kg	U	UJ				380	ug/kg	U	UJ	380	ug/kg	U	UJ
54 bgs	B17124	38000	ug/kg	U	UJ				38000	ug/kg	U	UJ	38000	ug/kg	U	UJ
62.5 bgs	B17116	360	ug/kg	U					360	ug/kg	U		360	ug/kg	U	
62.5 bgs	B17122	78000	ug/kg	U					78000	ug/kg	U		78000	ug/kg	U	
72.5 bgs	B17117	340	ug/kg	U					340	ug/kg	U		340	ug/kg	U	
87.5 bgs	B17118	340	ug/kg	U					340	ug/kg	U		340	ug/kg	U	
127.5 bgs	B17119	340	ug/kg	U					340	ug/kg	U		340	ug/kg	U	
197.5 bgs	B17120	68.0	ug/kg	U					68.0	ug/kg	U		68.0	ug/kg	U	
287.5 bgs	B17121	68.0	ug/kg	U		590	ug/kg		68.0	ug/kg	U		68.0	ug/kg	U	
292 bgs	B172M8	69.0	ug/kg	U		570	ug/kg		69.0	ug/kg	U		69.0	ug/kg	U	
317 bgs	B171B5	69.0	ug/kg	U					69.0	ug/kg	U		69.0	ug/kg	U	
dup of B17116	B17123	36000	ug/kg	UD	UJ				36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ
equip blank tied to B17114	B17110	12.0	ug/L	U					12.0	ug/L	U		12.0	ug/L	U	
Target Quantitation Limit																

Table B1-5. Semi-volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Hexachlorobenzene				Hexachlorobutadiene				Hexachlorocyclopentadiene				Hexachloroethane			
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual
12.5 bgs	B17113	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
45 bgs	B17114	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
52 bgs	B17115	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ
54 bgs	B17124	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ
62.5 bgs	B17116	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U		360	ug/kg	U	
62.5 bgs	B17122	78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U	
72.5 bgs	B17117	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
87.5 bgs	B17118	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
127.5 bgs	B17119	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U	
197.5 bgs	B17120	68.0	ug/kg	U		370	ug/kg	U		320	ug/kg	U		470	ug/kg	U	
287.5 bgs	B17121	68.0	ug/kg	U		380	ug/kg	U		320	ug/kg	U		480	ug/kg	U	
292 bgs	B172M8	69.0	ug/kg	U		380	ug/kg	U		320	ug/kg	U		480	ug/kg	U	
317 bgs	B171B5	69.0	ug/kg	U		380	ug/kg	U		320	ug/kg	U		480	ug/kg	U	
dup of B17116	B17123	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ
equip blank tied to B17114	B17110	12.0	ug/L	U		12.0	ug/L	U		12.0	ug/L	U		12.0	ug/L	U	
Target Quantitation Limit																	

Table B1-5. Semi-volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Indeno(1 2 3-cd)pyrene				Isophorone				Naphthalene				n-Hexanoic Acid			Nitrobenzene			
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Result	Units	Q	Val Qual
12.5 bgs	B17113	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U					360	ug/kg	U	
45 bgs	B17114	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U					340	ug/kg	U	
52 bgs	B17115	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ				380	ug/kg	U	UJ
54 bgs	B17124	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ				38000	ug/kg	U	UJ
62.5 bgs	B17116	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U					360	ug/kg	U	
62.5 bgs	B17122	78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U					78000	ug/kg	U	
72.5 bgs	B17117	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U					340	ug/kg	U	
87.5 bgs	B17118	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U					340	ug/kg	U	
127.5 bgs	B17119	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U					340	ug/kg	U	
197.5 bgs	B17120	68.0	ug/kg	U		68.0	ug/kg	U		290	ug/kg	U		1200	ug/kg		260	ug/kg	U	
287.5 bgs	B17121	68.0	ug/kg	U		68.0	ug/kg	U		290	ug/kg	U					270	ug/kg	U	
292 bgs	B172M8	69.0	ug/kg	U		69.0	ug/kg	U		300	ug/kg	U					270	ug/kg	U	
317 bgs	B171B5	69.0	ug/kg	U		69.0	ug/kg	U		290	ug/kg	U					270	ug/kg	U	
dup of B17116	B17123	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ				36000	ug/kg	UD	UJ
equip blank tied to B17114	B171I0	12.0	ug/L	U		12.0	ug/L	U		12.0	ug/L	U					12.0	ug/L	U	
Target Quantitation Limit																				

Table B1-5. Semi-volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		N-Nitrosodi-n-dipropylamine				N-Nitrosodiphenylamine				Octacosane			Pentachlorophenol			
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Result	Units	Q	Val Qual
12.5 bgs	B17113	360	ug/kg	U		360	ug/kg	U					890	ug/kg	U	
45 bgs	B17114	340	ug/kg	U		340	ug/kg	U					860	ug/kg	U	
52 bgs	B17115	380	ug/kg	U	UJ	380	ug/kg	U	UJ				940	ug/kg	U	UJ
54 bgs	B17124	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ				96000	ug/kg	U	UJ
62.5 bgs	B17116	360	ug/kg	U		360	ug/kg	U					20.381	ug/kg	J	
62.5 bgs	B17122	78000	ug/kg	U		78000	ug/kg	U					200000	ug/kg	U	
72.5 bgs	B17117	340	ug/kg	U		340	ug/kg	U					860	ug/kg	U	
87.5 bgs	B17118	340	ug/kg	U		340	ug/kg	U					860	ug/kg	U	
127.5 bgs	B17119	340	ug/kg	U		340	ug/kg	U					850	ug/kg	U	
197.5 bgs	B17120	68.0	ug/kg	U		68.0	ug/kg	U		570	ug/kg		300	ug/kg	U	
287.5 bgs	B17121	68.0	ug/kg	U		68.0	ug/kg	U					310	ug/kg	U	
292 bgs	B172M8	69.0	ug/kg	U		69.0	ug/kg	U					310	ug/kg	U	
317 bgs	B171B5	69.0	ug/kg	U		69.0	ug/kg	U					310	ug/kg	U	
dup of B17116	B17123	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ				90000	ug/kg	UD	UJ
equip blank tied to B17114	B17110	12.0	ug/L	U		12.0	ug/L	U					30.0	ug/L	U	
Target Quantitation Limit																

Table B1-5. Semi-volatile Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Phenanthrene				Phenol				Pyrene				Tributyl phosphate		
Interval	HEIS	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q	Val Qual	Result	Units	Q
12.5 bgs	B17113	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U		360	ug/kg	U
45 bgs	B17114	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U
52 bgs	B17115	380	ug/kg	U	UJ	380	ug/kg	U	UJ	380	ug/kg	U	UJ	139.926	ug/kg	J
54 bgs	B17124	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	38000	ug/kg	U	UJ	290039.3	ug/kg	
62.5 bgs	B17116	360	ug/kg	U		360	ug/kg	U		360	ug/kg	U		89795.06	ug/kg	D
62.5 bgs	B17122	78000	ug/kg	U		78000	ug/kg	U		78000	ug/kg	U		2000000	ug/kg	E
72.5 bgs	B17117	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		382.115	ug/kg	
87.5 bgs	B17118	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		19.0	ug/kg	J
127.5 bgs	B17119	340	ug/kg	U		340	ug/kg	U		340	ug/kg	U		340	ug/kg	U
197.5 bgs	B17120	68.0	ug/kg	U		100	ug/kg	U		68.0	ug/kg	U		68.0	ug/kg	U
287.5 bgs	B17121	68.0	ug/kg	U		100	ug/kg	U		68.0	ug/kg	U		68.0	ug/kg	U
292 bgs	B172M8	69.0	ug/kg	U		100	ug/kg	U		69.0	ug/kg	U		69.0	ug/kg	U
317 bgs	B171B5	69.0	ug/kg	U		100	ug/kg	U		69.0	ug/kg	U		69.0	ug/kg	U
dup of B17116	B17123	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	36000	ug/kg	UD	UJ	178370.1	ug/kg	D
equip blank tied to B17114	B17110	12.0	ug/L	U		12.0	ug/L	U		12.0	ug/L	U		12.0	ug/L	U
Target Quantitation Limit						330								3300		

bgs = Below ground surface
D = Sample reanalyzed at higher dilution factor
dup = Duplicate
E = Estimated
HEIS = Hanford Environmental Information System
J = Estimated
Q = Qualifier
U = Undetected
UJ = Undetected, detection limit is estimated
Val Qual = Validation qualifier

Table B1-6. Miscellaneous Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Endosulfan I			Endrin			Heptachlor			1-Butanol			2 4 5-Trichloro phenoxyacetic acid			2 4-Dichloro phenoxyacetic acid		
Interval	HEIS	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q
0.5 bgs	B17112	1.70	ug/kg	U	3.50	ug/kg	U	1.70	ug/kg	U				17.0	ug/kg	U	35.0	ug/kg	U
12.5 bgs	B17113										24000	ug/kg	U						
45 bgs	B17114										26000	ug/kg	U						
52 bgs	B17115										28000	ug/kg	U						
54 bgs	B17124										28000	ug/kg	U						
62.5 bgs	B17116										26000	ug/kg	U						
62.5 bgs	B17122										28000	ug/kg	U						
72.5 bgs	B17117										24.0	ug/kg	U						
87.5 bgs	B17118										20.0	ug/kg	U						
127.5 bgs	B17119										22.0	ug/kg	U						
197.5 bgs	B17120																		
287.5 bgs	B17121																		
292 bgs	B172M8																		
317 bgs	B171B5																		
dup of B17116	B17123										29000	ug/kg	U						
equip blank tied to B17114	B17110										5000	ug/L	U						
Target Quantitation Limit											5000								

Table B1-6. Miscellaneous Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		2-(2 4 5-Trichlorophenoxy) propionic acid			2-secButyl-4 6-dinitrophenol(DNBP)			4-(2 4-Dichlorophenoxy) butanoic acid			Aldrin			Alpha-BHC		
Interval	HEIS	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q
0.5 bgs	B17112	17.0	ug/kg	U	17.0	ug/kg	U	170	ug/kg	U	1.70	ug/kg	U	1.70	ug/kg	U
12.5 bgs	B17113															
45 bgs	B17114															
52 bgs	B17115															
54 bgs	B17124															
62.5 bgs	B17116															
62.5 bgs	B17122															
72.5 bgs	B17117															
87.5 bgs	B17118															
127.5 bgs	B17119															
197.5 bgs	B17120															
287.5 bgs	B17121															
292 bgs	B172M8															
317 bgs	B171B5															
dup of B17116	B17123															
equip blank tied to B17114	B17110															
Target Quantitation Limit																

Table B1-6. Miscellaneous Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		alpha-Chlordane			Aroclor-1016			Aroclor-1221			Aroclor-1232			Aroclor-1242			Aroclor-1248			Aroclor-1254		
Interval	HEIS	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q
0.5 bgs	B17112	1.70	ug/kg	U																		
12.5 bgs	B17113																					
45 bgs	B17114																					
52 bgs	B17115																					
54 bgs	B17124																					
62.5 bgs	B17116																					
62.5 bgs	B17122																					
72.5 bgs	B17117																					
87.5 bgs	B17118																					
127.5 bgs	B17119																					
197.5 bgs	B17120				48.0	ug/kg	U	97.0	ug/kg	U	48.0	ug/kg	U	48.0	ug/kg	U	48.0	ug/kg	U	48.0	ug/kg	U
287.5 bgs	B17121				50.0	ug/kg	U	100	ug/kg	U	50.0	ug/kg	U	50.0	ug/kg	U	50.0	ug/kg	U	50.0	ug/kg	U
292 bgs	B172M8				50.0	ug/kg	U	100	ug/kg	U	50.0	ug/kg	U	50.0	ug/kg	U	50.0	ug/kg	U	50.0	ug/kg	U
317 bgs	B171B5				50.0	ug/kg	U	100	ug/kg	U	50.0	ug/kg	U	50.0	ug/kg	U	50.0	ug/kg	U	50.0	ug/kg	U
dup of B17116	B17123																					
equip blank tied to B17114	B17110																					
Target Quantitation Limit					100			100			100			100			100			100		

Table B1-6. Miscellaneous Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Aroclor-1260			Aroclor-1262			Aroclor-1268			beta-1 2 3 4 5 6-Hexachlorocyclohexane (B BHC)			Dalapon			Delta-BHC		
Interval	HEIS	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q
0.5 bgs	B17112										7.00	ug/kg		170	ug/kg	U	1.70	ug/kg	U
12.5 bgs	B17113																		
45 bgs	B17114																		
52 bgs	B17115																		
54 bgs	B17124																		
62.5 bgs	B17116																		
62.5 bgs	B17122																		
72.5 bgs	B17117																		
87.5 bgs	B17118																		
127.5 bgs	B17119																		
197.5 bgs	B17120	48.0	ug/kg	U	48.0	ug/kg	U	48.0	ug/kg	U									
287.5 bgs	B17121	50.0	ug/kg	U	50.0	ug/kg	U	50.0	ug/kg	U									
292 bgs	B172M8	50.0	ug/kg	U	50.0	ug/kg	U	50.0	ug/kg	U									
317 bgs	B171B5	50.0	ug/kg	U	50.0	ug/kg	U	50.0	ug/kg	U									
dup of B17116	B17123																		
equip blank tied to B17114	B17110																		
Target Quantitation Limit		100			100			100											

Table B1-6. Miscellaneous Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Dicamba			Dichlorodiphenyl dichloroethane			Dichlorodiphenyl dichloroethylene			Dichlorodiphenyltri chloroethane			Dichloroprop		
Interval	HEIS	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q
0.5 bgs	B17112	70.0	ug/kg	U	3.50	ug/kg	U	3.50	ug/kg	U	3.50	ug/kg	U	170	ug/kg	U
12.5 bgs	B17113															
45 bgs	B17114															
52 bgs	B17115															
54 bgs	B17124															
62.5 bgs	B17116															
62.5 bgs	B17122															
72.5 bgs	B17117															
87.5 bgs	B17118															
127.5 bgs	B17119															
197.5 bgs	B17120															
287.5 bgs	B17121															
292 bgs	B172M8															
317 bgs	B171B5															
dup of B17116	B17123															
equip blank tied to B17114	B17110															
Target Quantitation Limit																

Table B1-6. Miscellaneous Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Dieldrin			Diethyl ether			Endosulfan II			Endosulfan sulfate			Endrin aldehyde			Endrin ketone		
Interval	HEIS	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q
0.5 bgs	B17112	3.50	ug/kg	U				3.50	ug/kg	U	3.50	ug/kg	U	3.50	ug/kg	U	3.50	ug/kg	U
12.5 bgs	B17113				24000	ug/kg	U												
45 bgs	B17114				26000	ug/kg	U												
52 bgs	B17115				28000	ug/kg	U												
54 bgs	B17124				28000	ug/kg	U												
62.5 bgs	B17116				26000	ug/kg	U												
62.5 bgs	B17122				28000	ug/kg	U												
72.5 bgs	B17117				24.0	ug/kg	U												
87.5 bgs	B17118				20.0	ug/kg	U												
127.5 bgs	B17119				22.0	ug/kg	U												
197.5 bgs	B17120				5000	ug/kg	U												
287.5 bgs	B17121				5000	ug/kg	U												
292 bgs	B172M8				5000	ug/kg	U												
317 bgs	B171B5				5000	ug/kg	U												
dup of B17116	B17123				29000	ug/kg	U												
equip blank tied to B17114	B17110				5000	ug/L	U												
Target Quantitation Limit																			

Table B1-6. Miscellaneous Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Ethylene glycol			Gamma-BHC (Lindane)			gamma-Chlordane			Heptachlor epoxide			Methanol			Methoxychlor		
Interval	HEIS	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q	Result	Units	Q
0.5 bgs	B17112				1.70	ug/kg	U	1.70	ug/kg	U	1.70	ug/kg	U				17	ug/kg	U
12.5 bgs	B17113	24.5	ug/kg	U										24000	ug/kg	U			
45 bgs	B17114	25.0	ug/kg	U										26000	ug/kg	U			
52 bgs	B17115	23.5	ug/kg	U										28000	ug/kg	U			
54 bgs	B17124	37.0	ug/kg											28000	ug/kg	U			
62.5 bgs	B17116	25.5	ug/kg	U										26000	ug/kg	U			
62.5 bgs	B17122	28.0	ug/kg	U										28000	ug/kg	U			
72.5 bgs	B17117	25.0	ug/kg	U										24.0	ug/kg	U			
87.5 bgs	B17118	24.0	ug/kg	U										20.0	ug/kg	U			
127.5 bgs	B17119	25.0	ug/kg	U										22.0	ug/kg	U			
197.5 bgs	B17120	5000	ug/kg	U										1000	ug/kg	U			
287.5 bgs	B17121	5000	ug/kg	U										1000	ug/kg	U			
292 bgs	B172M8	5000	ug/kg	U										1000	ug/kg	U			
317 bgs	B171B5	5000	ug/kg	U										1000	ug/kg	U			
dup of B17116	B17123	24.5	ug/kg	U										29000	ug/kg	U			
equip blank tied to B17114	B17110	5000	ug/L	U										5000	ug/L	U			
Target Quantitation Limit		5000																	

Table B1-6. Miscellaneous Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Oil and grease			Total petroleum hydrocarbons - diesel range				Total petroleum hydrocarbons - gasoline range			Total petroleum hydrocarbons - kerosene range		
Interval	HEIS	Result	Units	Q	Result	Units	Q	Val Qual	Result	Units	Q	Result	Units	Q
0.5 bgs	B17112													
12.5 bgs	B17113	711000	ug/kg	U	12800	ug/kg	U		30.0	ug/kg	U	12800	ug/kg	U
45 bgs	B17114	684000	ug/kg	U	12300	ug/kg	U		29.0	ug/kg	U	12300	ug/kg	U
52 bgs	B17115	753000	ug/kg	U	13600	ug/kg	U	UJ	63.0	ug/kg	U	13600	ug/kg	U
54 bgs	B17124	3620000	ug/kg		10000000	ug/kg	D	UJ	33.0	ug/kg	U	1370000	ug/kg	UD
62.5 bgs	B17116	726000	ug/kg	U	131000	ug/kg	U	UJ	1500	ug/kg		700000	ug/kg	
62.5 bgs	B17122	59400000	ug/kg		14000000	ug/kg	U		170	ug/kg	U	2.4E+07	ug/kg	
72.5 bgs	B17117	688000	ug/kg	U	12.4	ug/L	U		33.0	ug/kg	U	12.4	ug/L	U
87.5 bgs	B17118	686000	ug/kg	U	12.3	ug/L	U		29.0	ug/kg	U	12.3	ug/L	U
127.5 bgs	B17119	678000	ug/kg	U	12.2	ug/L	U		30.0	ug/kg	U	12.2	ug/L	U
197.5 bgs	B17120				3700	ug/kg	U		250	ug/kg	U	5000	ug/kg	U
287.5 bgs	B17121				3700	ug/kg	U		250	ug/kg	U	3700	ug/kg	U
292 bgs	B172M8				3700	ug/kg	U		250	ug/kg	U	5000	ug/kg	U
317 bgs	B171B5				3700	ug/kg	U		250	ug/kg	U	3700	ug/kg	U
dup of B17116	B17123	725000	ug/kg	U	1300000	ug/kg	UD	UJ	75.0	ug/kg	U	6000000	ug/kg	D
equip blank tied to B17114	B17110				354	ug/L	U		30.0	ug/L	U	354	ug/L	U
Target Quantitation Limit		200000			5000				5000			5000		

Table B1-6. Miscellaneous Organic Analysis Results for 216-A-10 Crib (C3247) Samples

		Total petroleum hydrocarbons - motor oil (high boiling)			Toxaphene		
Interval	HEIS	Result	Units	Q	Result	Units	Q
0.5 bgs	B17112				170	ug/kg	U
12.5 bgs	B17113						
45 bgs	B17114						
52 bgs	B17115						
54 bgs	B17124						
62.5 bgs	B17116						
62.5 bgs	B17122						
72.5 bgs	B17117						
87.5 bgs	B17118						
127.5 bgs	B17119						
197.5 bgs	B17120	90000	ug/kg				
287.5 bgs	B17121						
292 bgs	B172M8	34000	ug/kg				
317 bgs	B171B5						
dup of B17116	B17123						
equip blank tied to B17114	B17110						
Target Quantitation Limit							

bgs = Below ground surface
D = Sample reanalyzed at higher dilution factor
dup = Duplicate
HEIS = Hanford Environmental Information System
Q = Qualifier
U = Undetected
UJ = Undetected, detection limit is estimated

Table B2-1. Radiochemical Analysis Re for 216-A-19 (C3245) Trench Samples

			Actinium-228			Americium-241				Antimony-125			Bismuth-212			Bismuth-214			
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Val Qual	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual
14.5 bgs	B16RW5	pCi/g																	
14.5 bgs	B16RX6	pCi/g	0.523		0.042	0.081		0.027	J	-0.016	U	0.036	0.343		0.11	0.439		0.026	J
17.5 bgs	B16RW6	pCi/g																	
17.5 bgs	B16RX7	pCi/g	0.552		0.039	-0.01	U	0.024		-0.011	U	0.03	0.424		0.088	0.435		0.022	
22.5 bgs	B16RW7	pCi/g																	
22.5 bgs	B16RX8	pCi/g	0.586		0.047	0.17	U	0.26		0.007	U	0.041	0.467		0.12	0.484		0.028	J
27.5 bgs	B16RW9	pCi/g																	
27.5 bgs	B16RY0	pCi/g	0.508		0.083	0.006		0.003		-0.004	U	0.055	0.328		0.19	0.344		0.047	
32.5 bgs	B16RX0	pCi/g																	
32.5 bgs	B16RY1	pCi/g	0.553		0.031	0.007	U	0.009		0.004	U	0.029	0.366		0.076	0.432		0.02	
47.5 bgs	B16RX1	pCi/g																	
47.5 bgs	B16RY2	pCi/g	0.476		0.061	-0.01	U	0.025		-0.011	U	0.04	0.375		0.14	0.324		0.035	
97.5 bgs	B16RX2	pCi/g																	
97.5 bgs	B16RY3	pCi/g	0.592		0.035	0.003	U	0.021		0.003	U	0.029	0.444		0.077	0.527		0.02	
207.5 bgs	B16RX3	pCi/g																	
207.5 bgs	B16RY4	pCi/g	0.483		0.028	0.014	U	0.05		-0.002	U	0.024	0.385		0.062	0.427		0.017	
242.5 bgs	B16RX4	pCi/g																	
242.5 bgs	B16RY5	pCi/g	0.535		0.03	0.006	U	0.048		0.009	U	0.026	0.342		0.068	0.481		0.018	
248 bgs	B16RX5	pCi/g																	
248 bgs	B16VV9	pCi/g	0.533		0.08	0.013	U	0.049		0.017	U	0.057	0.294		0.18	0.341		0.043	
dup of B16RW7	B16RW8	pCi/g																	
dup of B16RX8	B16RX9	pCi/g	0.515		0.043	0.021	U	0.31		0.013	U	0.039	0.316		0.11	0.372		0.028	J
equip blank tied to B16RX7 & B16RW6	B16LD9																		
equip blank tied to B16RX7 & B16RW6	B16LD9-A	pCi/L	2.53	U	21	0.011	U	0.15		12.9	U	21.0	-31.6	U	53.0	13.0	U	27.0	
Target Quantitation Limit						1.00													

Table B2-1. Radiochemical Analysis Results for 216-A-19 (C3245) Trench Samples

			Carbon-14				Cerium-144			Cesium-134			Cesium-137			Cobalt-60		
Interval	HEIS	Units	Result	Q	MDA	Val Qual	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
14.5 bgs	B16RW5	pCi/g	-1.60	U	1.90	UJ												
14.5 bgs	B16RX6	pCi/g					-0.06	U	0.14	0.035	U	0.017	0.001	U	0.014	0.004	U	0.012
17.5 bgs	B16RW6	pCi/g	-0.683	U	1.70													
17.5 bgs	B16RX7	pCi/g					-0.052	U	0.10	0.027	U	0.014	-0.009	U	0.012	0.002	U	0.012
22.5 bgs	B16RW7	pCi/g	-1.44	U	3.50	UJ												
22.5 bgs	B16RX8	pCi/g					0.016	U	0.15	0.025	U	0.019	-0.016	U	0.015	-0.006	U	0.014
27.5 bgs	B16RW9	pCi/g	-0.707	U	2.70													
27.5 bgs	B16RY0	pCi/g					0.016	U	0.13	0.05	U	0.031	0	U	0.025	0.004	U	0.028
32.5 bgs	B16RX0	pCi/g	-2.22	U	3.30													
32.5 bgs	B16RY1	pCi/g					-0.006	U	0.088	0.029	U	0.014	0.072		0.011	0.002	U	0.01
47.5 bgs	B16RX1	pCi/g	-1.10	U	2.00													
47.5 bgs	B16RY2	pCi/g					0.017	U	0.086	0.019	U	0.022	0.024		0.018	-0.008	U	0.022
97.5 bgs	B16RX2	pCi/g	-2.03	U	2.90													
97.5 bgs	B16RY3	pCi/g					0.029	U	0.087	0.03	U	0.014	-0.009	U	0.01	-0.003	U	0.01
207.5 bgs	B16RX3	pCi/g	-0.574	U	3.80													
207.5 bgs	B16RY4	pCi/g					0.055	U	0.074	0.02	U	0.011	-0.004	U	0.009	0.002	U	0.009
242.5 bgs	B16RX4	pCi/g	0	U	2.60													
242.5 bgs	B16RY5	pCi/g					0.007	U	0.078	0.03	U	0.013	0.002	U	0.01	0.002	U	0.009
248 bgs	B16RX5	pCi/g	0.46	U	2.70													
248 bgs	B16VV9	pCi/g					-0.068	U	0.14	0.02	U	0.027	0.033		0.022	-0.002	U	0.025
dup of B16RW7	B16RW8	pCi/g	-2.26	U	3.30	UJ												
dup of B16RX8	B16RX9	pCi/g					0.006	U	0.16	0.029	U	0.017	-0.006	U	0.014	-0.005	U	0.012
equip blank tied to B16RX7 & B16RW6	B16LD9		-13.6	U	36.0													
equip blank tied to B16RX7 & B16RW6	B16LD9-A	pCi/L					-22.0	U	45.0	-2.25	U	6.9	-2.06	U	6.8	-3.52	U	6.6
Target Quantitation Limit			50.0										0.10			0.05		

Table B2-1. Radiochemical Analysis Results for 216-A-19 (C3245) Trench Samples

			Europium-152			Europium-154			Europium-155			Iodine-129			Lead-212		
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
14.5 bgs	B16RW5	pCi/g										-0.546	U	2.40			
14.5 bgs	B16RX6	pCi/g	-0.018	U	0.04	-0.027	U	0.038	0.066		0.082				0.536		0.028
17.5 bgs	B16RW6	pCi/g										-0.048	U	2.40			
17.5 bgs	B16RX7	pCi/g	-0.016	U	0.033	-0.007	U	0.036	0.048	U	0.058				0.577		0.022
22.5 bgs	B16RW7	pCi/g										-0.613	U	2.10			
22.5 bgs	B16RX8	pCi/g	-0.003	U	0.044	-0.018	U	0.043	-0.01	U	0.09				0.588		0.033
27.5 bgs	B16RW9	pCi/g										-0.992	U	2.90			
27.5 bgs	B16RY0	pCi/g	0.008	U	0.055	0.009	U	0.083	0.014	U	0.072				0.51		0.032
32.5 bgs	B16RX0	pCi/g										-0.193	U	1.80			
32.5 bgs	B16RY1	pCi/g	-0.025	U	0.029	-0.017	U	0.03	0.037	U	0.048				0.582		0.021
47.5 bgs	B16RX1	pCi/g										0.344	U	1.70			
47.5 bgs	B16RY2	pCi/g	-0.013	U	0.041	0.005	U	0.07	0.06		0.046				0.406		0.026
97.5 bgs	B16RX2	pCi/g										-0.372	U	1.10			
97.5 bgs	B16RY3	pCi/g	-0.01	U	0.031	0.016	U	0.035	0.04	U	0.047				0.597		0.021
207.5 bgs	B16RX3	pCi/g										0.071	U	1.90			
207.5 bgs	B16RY4	pCi/g	0	U	0.027	-0.002	U	0.028	0.035		0.038				0.511		0.018
242.5 bgs	B16RX4	pCi/g										-0.154	U	2.20			
242.5 bgs	B16RY5	pCi/g	-0.02	U	0.027	-0.02	U	0.029	0.039		0.04				0.575		0.019
248 bgs	B16RX5	pCi/g										-0.888	U	3.20			
248 bgs	B16VV9	pCi/g	-0.002	U	0.058	-0.015	U	0.073	-0.02	U	0.076				0.599		0.034
dup of B16RW7	B16RW8	pCi/g										-0.423	U	2.00			
dup of B16RX8	B16RX9	pCi/g	-0.03	U	0.044	-0.005	U	0.037	0.059	U	0.10				0.558		0.031
equip blank tied to B16RX7 & B16RW6	B16LD9											-0.004	U	2.40			
equip blank tied to B16RX7 & B16RW6	B16LD9-A	pCi/L	-0.356	U	21	-6.39	U	20	-13.2	U	21				-4.27	U	14
Target Quantitation Limit			0.10			0.10			0.10			2.00					

Table B2-1. Radiochemical Analysis Results for 216-A-19 (C3245) Trench Samples

			Lead-214				Neptunium-237			Nickel-63			Niobium-94			Plutonium-238			
Interval	HEIS	Units	Result	Q	MDA	Val Qual	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual
14.5 bgs	B16RW5	pCi/g					0	U	0.092	17.6		2.00							
14.5 bgs	B16RX6	pCi/g	0.472		0.03								0.011	U	0.014	-0.026	U	0.28	UJ
17.5 bgs	B16RW6	pCi/g					0	U	0.11	1.22	U	2.10							
17.5 bgs	B16RX7	pCi/g	0.484		0.024								0.002	U	0.011	-0.007	U	0.027	
22.5 bgs	B16RW7	pCi/g					0	U	0.091	0.298	U	2.10							
22.5 bgs	B16RX8	pCi/g	0.533		0.033								-0.001	U	0.014	0.036	U	0.066	
27.5 bgs	B16RW9	pCi/g					0	U	0.11	0.765	U	2.00							
27.5 bgs	B16RY0	pCi/g	0.402		0.041								0.006	U	0.024	-0.009	U	0.033	
32.5 bgs	B16RX0	pCi/g					0	U	0.093	10.1		2.10							
32.5 bgs	B16RY1	pCi/g	0.497		0.022								0.004	U	0.01	-0.009	U	0.029	
47.5 bgs	B16RX1	pCi/g					0	U	0.26	0.148	U	2.10							
47.5 bgs	B16RY2	pCi/g	0.378		0.03								0.001	U	0.017	0.018	U	0.025	
97.5 bgs	B16RX2	pCi/g					0.077	U	0.12	1.34	U	2.10							
97.5 bgs	B16RY3	pCi/g	0.552		0.023								0.001	U	0.01	-0.01	U	0.026	
207.5 bgs	B16RX3	pCi/g					0.018	U	0.054	0.23	U	2.30							
207.5 bgs	B16RY4	pCi/g	0.447		0.019								0.002	U	0.008	-0.02	U	0.066	
242.5 bgs	B16RX4	pCi/g					-0.019	U	0.14	-0.817	U	2.30							
242.5 bgs	B16RY5	pCi/g	0.542		0.02								0.001	U	0.009	0.019	U	0.042	
248 bgs	B16RX5	pCi/g					-0.017	U	0.13	-0.217	U	2.40							
248 bgs	B16VV9	pCi/g	0.466		0.042								0.002	U	0.022	-0.009	U	0.046	
dup of B16RW7	B16RW8	pCi/g					0	U	0.092	1.59	U	2.10							
dup of B16RX8	B16RX9	pCi/g	0.426		0.032	J							0.007	U	0.014	0.02	U	0.27	
equip blank tied to B16RX7 & B16RW6	B16LD9						0	U	0.3	9.86	B	2.20							
equip blank tied to B16RX7 & B16RW6	B16LD9-A	pCi/L	2.08	U	27								3.46	U	7.1	0.15		0.11	
Target Quantitation Limit							1.00			30						1.00			

Table B2-1. Radiochemical Analysis Res 'or 216-A-19 (C3245) Trench Samples

			Plutonium-239/240				Radium-226[a]				Radium-228[a]			Ruthenium-103			Ruthenium-106		
Interval	HEIS	Units	Result	Q	MDA	Val Qual	Result	Q	MDA	Val Qual	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
14.5 bgs	B16RW5	pCi/g																	
14.5 bgs	B16RX6	pCi/g	0.18		0.065	J	0.439		0.026	J	0.523		0.042	0.005	U	0.013	-0.04	U	0.12
17.5 bgs	B16RW6	pCi/g																	
17.5 bgs	B16RX7	pCi/g	0.035		0.003		0.435		0.022		0.552		0.039	-0.001	U	0.011	0.018	U	0.099
22.5 bgs	B16RW7	pCi/g																	
22.5 bgs	B16RX8	pCi/g	0.009	U	0.066		0.484		0.028	J	0.586		0.047	0.004	U	0.014	0.041	U	0.13
27.5 bgs	B16RW9	pCi/g																	
27.5 bgs	B16RY0	pCi/g	0.001	U	0.013		0.344		0.047		0.508		0.083	0.003	U	0.021	-0.062	U	0.21
32.5 bgs	B16RX0	pCi/g																	
32.5 bgs	B16RY1	pCi/g	0.001	U	0.003		0.432		0.02		0.553		0.031	0.006	U	0.01	-0.009	U	0.088
47.5 bgs	B16RX1	pCi/g																	
47.5 bgs	B16RY2	pCi/g	0.014		0.003		0.324		0.035		0.476		0.061	-0.003	U	0.015	-0.033	U	0.15
97.5 bgs	B16RX2	pCi/g																	
97.5 bgs	B16RY3	pCi/g	-0.002	U	0.01		0.527		0.02		0.592		0.035	-0.002	U	0.01	0.03	U	0.088
207.5 bgs	B16RX3	pCi/g																	
207.5 bgs	B16RY4	pCi/g	0.002	U	0.023		0.427		0.017		0.483		0.028	-0.001	U	0.008	0.019	U	0.075
242.5 bgs	B16RX4	pCi/g																	
242.5 bgs	B16RY5	pCi/g	0.002	U	0.016		0.481		0.018		0.535		0.03	-0.006	U	0.009	-0.011	U	0.08
248 bgs	B16RX5	pCi/g																	
248 bgs	B16VV9	pCi/g	-0.007	U	0.023		0.341		0.043		0.533		0.08	-0.004	U	0.02	-0.016	U	0.20
dup of B16RW7	B16RW8	pCi/g																	
dup of B16RX8	B16RX9	pCi/g	0.03		0.027		0.372		0.028	J	0.515		0.043	-0.002	U	0.013	-0.029	U	0.12
equip blank tied to B16RX7 & B16RW6	B16LD9																		
equip blank tied to Bl 6RX7 & B16RW6	B16LD9-A	pCi/L	0.014	U	0.035		0.032[b]		0.03		-2.3[b]	U	3.2	1.14	U	8.6	-5.62	U	67
Target Quantitation Limit			1.00				0.10				0.20								

Table B2-1. Radiochemical Analysis Results for 216-A-19 (C3245) Trench Samples

			Technetium-99				Thallium-208			Thorium-228			Thorium-230			Thorium-232		
Interval	HEIS	Units	Result	Q	MDA	Val Qual	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
14.5 bgs	B16RW5	pCi/g	0.316	U	0.58	UJ				0.47		0.43	0.507		0.3	0.429		0.30
14.5 bgs	B16RX6	pCi/g					0.171		0.014									
17.5 bgs	B16RW6	pCi/g	0.233	U	0.57					0.594		0.41	0.718		0.32	0.38		0.32
17.5 bgs	B16RX7	pCi/g					0.182		0.011									
22.5 bgs	B16RW7	pCi/g	0.183	U	0.59	UJ				0.457		0.29	0.379		0.29	0.341		0.29
22.5 bgs	B16RX8	pCi/g					0.182		0.016									
27.5 bgs	B16RW9	pCi/g	0.266	U	0.57					0.45		0.29	0.224	U	0.36	0.449		0.29
27.5 bgs	B16RY0	pCi/g					0.135		0.021									
32.5 bgs	B16RX0	pCi/g	0.46	U	0.56					0.512		0.36	0.742		0.35	0.742		0.35
32.5 bgs	B16RY1	pCi/g					0.17		0.01									
47.5 bgs	B16RX1	pCi/g	0.286	U	0.58					0.18	U	0.34	0.493		0.43	0.404		0.34
47.5 bgs	B16RY2	pCi/g					0.118		0.016									
97.5 bgs	B16RX2	pCi/g	0.236	U	0.54					0.685		0.4	0.105	U	0.5	0.735		0.40
97.5 bgs	B16RY3	pCi/g					0.17		0.01									
207.5 bgs	B16RX3	pCi/g	0.176	U	0.56					0.261		0.18	0.658		0.22	0.31		0.095
207.5 bgs	B16RY4	pCi/g					0.15		0.008									
242.5 bgs	B16RX4	pCi/g	0.026	U	0.53					0.355		0.097	0.418		0.22	0.367		0.097
242.5 bgs	B16RY5	pCi/g					0.174		0.009									
248 bgs	B16RX5	pCi/g	0.067	U	0.53					0.264		0.11	0.16	U	0.25	0.183		0.088
248 bgs	B16VV9	pCi/g					0.154		0.021									
dup of B16RW7	B16RW8	pCi/g	0.137	U	0.53	UJ				0.561		0.29	0.149	U	0.29	0.298		0.29
dup of B16RX8	B16RX9	pCi/g					0.169		0.014									
equip blank tied to B16RX7 & B16RW6	B16LD9		3.76	U	5.40					-0.027	U	0.21	0	U	0.21	0	U	0.21
equip blank tied to B16RX7 & B16RW6	B16LD9-A	pCi/L					4.51	U	7.1									
Target Quantitation Limit			15													1.00		

Table B2-1. Radiochemical Analysis Results for 216-A-19 (C3245) Trench Samples

			Thorium-234			Tin-113			Tin-126			Total beta radiostrontium			Tritium		
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
14.5 bgs	B16RW5	pCi/g										16.1		0.24	0.127	U	0.17
14.5 bgs	B16RX6	pCi/g	56.8		1.50	-0.006	U	0.017	0.19	U	0.20						
17.5 bgs	B16RW6	pCi/g										20.0		0.24	0.078	U	0.15
17.5 bgs	B16RX7	pCi/g	13.3		0.87	0.002	U	0.014	0.166	U	0.20						
22.5 bgs	B16RW7	pCi/g										7.73		0.21	0.056	U	0.17
22.5 bgs	B16RX8	pCi/g	34.4		1.40	-0.003	U	0.019	0.007	U	0.008						
27.5 bgs	B16RW9	pCi/g										-0.004	U	0.23	0.085	U	0.17
27.5 bgs	B16RY0	pCi/g	18.7		1.30	-0.005	U	0.025	0.089	U	0.09						
32.5 bgs	B16RX0	pCi/g										0.024	U	0.22	0.13	U	0.18
32.5 bgs	B16RY1	pCi/g	6.20		0.67	-0.004	U	0.013	-0.009	U	0.044						
47.5 bgs	B16RX1	pCi/g										-0.023	U	0.21	0.026	U	0.17
47.5 bgs	B16RY2	pCi/g	1.03		0.85	-0.018	U	0.018	0.088	U	0.09						
97.5 bgs	B16RX2	pCi/g										-0.011	U	0.22	0.074	U	0.16
97.5 bgs	B16RY3	pCi/g	0.473	U	0.59	-0.005	U	0.013	0.136	U	0.20						
207.5 bgs	B16RX3	pCi/g										-0.077	U	0.33	0	U	0.22
207.5 bgs	B16RY4	pCi/g	0.344	U	0.46	0	U	0.011	0.117	U	0.20						
242.5 bgs	B16RX4	pCi/g										-0.071	U	0.34	0.023	U	0.20
242.5 bgs	B16RY5	pCi/g	0.598		0.54	-0.007	U	0.012	0.132	U	0.20						
248 bgs	B16RX5	pCi/g										0.184	U	0.40	0.424		0.19
248 bgs	B16VV9	pCi/g	0.825	U	1.30	-0.01	U	0.025	0.132	U	0.20						
dup of B16RW7	B16RW8	pCi/g										7.71		0.24	0.141	U	0.15
dup of B16RX8	B16RX9	pCi/g	37.3		1.70	0.001	U	0.018	-0.024	U	0.11						
equip blank tied to B 16RX7 & B16RW6	B16LD9											-0.114	U	0.37	-12.8	U	210
equip blank tied to B16RX7 & B16RW6	B16LD9-A	pCi/L	-156	U	250	-0.703	U	9.50	2.80	U	15.0						
Target Quantitation Limit												1.00			400		

Table B2-1. Radiochemical Analysis Results for 216-A-19 (C3245) Trench Samples

			Uranium-233/234[c]			Uranium-235			Uranium-238			Uranium d					Zinc-65		
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Units	Q	MDA	Val Qual	Result	Q	MDA
14.5 bgs	B16RW5	pCi/g																	
14.5 bgs	B16RX6	pCi/g	6.00		0.13	0.94		0.086	51.0		0.029	1E+05	ug/kg			J	0.029	U	0.03
17.5 bgs	B16RW6	pCi/g																	
17.5 bgs	B16RX7	pCi/g	1.80		0.026	0.22		0.026	14.0		0.006	39600	ug/kg				0.02	U	0.027
22.5 bgs	B16RW7	pCi/g																	
22.5 bgs	B16RX8	pCi/g	3.60		0.099	0.42		0.093	28.0		0.067	1E+05	ug/kg			J	0	U	0.032
27.5 bgs	B16RW9	pCi/g																	
27.5 bgs	B16RY0	pCi/g	2.60		0.04	0.34		0.02	22.0		0.007	66000	ug/kg				0.051	U	0.064
32.5 bgs	B16RX0	pCi/g																	
32.5 bgs	B16RY1	pCi/g	1.10		0.003	0.13		0.004	7.40		0.003	19100	ug/kg				0.009	U	0.022
47.5 bgs	B16RX1	pCi/g																	
47.5 bgs	B16RY2	pCi/g	0.24		0.006	0.02		0.002	0.98		0.002	2760	ug/kg				0.019	U	0.047
97.5 bgs	B16RX2	pCi/g																	
97.5 bgs	B16RY3	pCi/g	0.15		0.006	0.009		0.007	0.14		0.008	437	ug/kg	U			-0.008	U	0.024
207.5 bgs	B16RX3	pCi/g																	
207.5 bgs	B16RY4	pCi/g	0.18		0.005	0.009		0.005	0.21		0.005	490	ug/kg	U			-0.004	U	0.019
242.5 bgs	B16RX4	pCi/g																	
242.5 bgs	B16RY5	pCi/g	0.095		0.013	0.008		0.005	0.12		0.013	495	ug/kg	U			-0.013	U	0.021
248 bgs	B16RX5	pCi/g																	
248 bgs	B16VV9	pCi/g	0.12		0.015	0.018		0.005	0.10		0.005	474	ug/kg	U			0.022	U	0.056
dup of B16RW7	B16RW8	pCi/g																	
dup of B16RX8	B16RX9	pCi/g	5.40		0.095	0.65		0.03	41.0		0.11	1E+05	ug/kg			J	0.013	U	0.029
equip blank tied to B16RX7 & B16RW6	B16LD9											0.474	ug/L	B	0.019				
equip blank tied to B16RX7 & B16RW6	B16LD9-A	pCi/L	0.017		0.012	0.005	U	0.044	0.013		0.012	0.125	ug/L	U			-25.4	U	15.0
Target Quantitation Limit			1.00			1.00			1.00			1000							

a. All results except that noted by a 'b' are from gamma

b. RAISO AEA result was used because it was the higher result and is more appropriate.

c. Hanford did not process Thorium fuels, which result in U-233. Thus, all results are considered U-234.

d. Total Uranium reported in ug/kg.

AEA = Alpha energy analysis

B = Analyte found in associated method blank

bgs = Below ground surface

dup = Duplicate

HEIS = Hanford Environmental Information System

J = Estimated

MDA = Minimum detectable activity

Q = Qualifier

RAISO = Radium alpha spectroscopy analysis

U = Undetected

UJ = Undetected, detection limit is estimated

Val Qual = Validation qualifier

Table B2-2. Metal Analysis Results for 216-A-19 (C3245) Trench Samples

			Aluminum			Antimony		Arsenic			Barium			Beryllium		Bismuth	
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Result	Q
14.5 bgs	B16RW5	ug/kg															
14.5 bgs	B16RX6	ug/kg	5890000	E	J	239	U	7000	E	J	98900		J	241		6770	U
17.5 bgs	B16RW6	ug/kg															
17.5 bgs	B16RX7	ug/kg	5270000	E		248	U	3480	E		92700			231		6190	U
22.5 bgs	B16RW7	ug/kg															
22.5 bgs	B16RX8	ug/kg	6970000	E	J	243	U	2810	E	J	83700		J	248		6.62	U
27.5 bgs	B16RW9	ug/kg															
27.5 bgs	B16RY0	ug/kg	6450000	E		2480	U	1490	U		66300	E		1490	U	6700	U
32.5 bgs	B16RX0	ug/kg															
32.5 bgs	B16RY1	ug/kg	7490000	E		2460	U	2200			88600	E		1480	U	6560	U
47.5 bgs	B16RX1	ug/kg															
47.5 bgs	B16RY2	ug/kg	6480000	E		2360	U	1420	U		90900	E		1420	U	8140	
97.5 bgs	B16RX2	ug/kg															
97.5 bgs	B16RY3	ug/kg	5500000	E		2180	U	2680			56300			1310	U	36400000	
207.5 bgs	B16RX3	ug/kg															
207.5 bgs	B16RY4	ug/kg	6620000	E		2450	U	2170			82800			1470	U	8700	U
242.5 bgs	B16RX4	ug/kg															
242.5 bgs	B16RY5	ug/kg	6860000	E		2480	U	1480	U		62700			1480	U	8910	UE
248 bgs	B16RX5	ug/kg															
248 bgs	B16VV9	ug/kg	7090000	E		2370	U	1420	U		86500			1420	U	8710	UE
dup of B16RW7	B16RW8	ug/kg															
dup of B16RX8	B16RX9	ug/kg	6520000	E	J	240	U	2070	E	J	85800		J	256		6110	U
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	13.8	U		0.625[a]	U	0.375[a]	U		0.25[a]	U		0.375[a]	U	0	U
Target Quantitation Limit		ug/kg				6000		10000			20000			500			

Table B2-2. Metal Analysis Results for 216-A-19 (C3245) Trench Samples

			Boron			Cadmium		Chromium		Cobalt		Copper			Hexavalent Chromium		Lead	
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q
14.5 bgs	B16RW5	ug/kg													420	U		
14.5 bgs	B16RX6	ug/kg	38930	E	J	211		5310		9710		13400		J			3180	
17.5 bgs	B16RW6	ug/kg													420	U		
17.5 bgs	B16RX7	ug/kg	31210	E		186		4950		10500		13000					2340	
22.5 bgs	B16RW7	ug/kg													420	U		
22.5 bgs	B16RX8	ug/kg	34330	E	J	200		4840		9810		12900					2800	
27.5 bgs	B16RW9	ug/kg													420	U		
27.5 bgs	B16RY0	ug/kg	10100	U		496	U	3710		10500		15000					5950	U
32.5 bgs	B16RX0	ug/kg													420	U		
32.5 bgs	B16RY1	ug/kg	9830	U		492	U	5550		11300		15300					5900	U
47.5 bgs	B16RX1	ug/kg													410	U		
47.5 bgs	B16RY2	ug/kg	9180	U		473	U	9310		7510		11600					5680	U
97.5 bgs	B16RX2	ug/kg													410	U		
97.5 bgs	B16RY3	ug/kg	919600	U		437	U	7990		4790		9430					5240	U
207.5 bgs	B16RX3	ug/kg													420	U		
207.5 bgs	B16RY4	ug/kg	8870	U		490	U	14200		8140		15500					5880	U
242.5 bgs	B16RX4	ug/kg													410	U		
242.5 bgs	B16RY5	ug/kg	9090	U		495	U	12100		6570		10600					5940	U
248 bgs	B16RX5	ug/kg													410	U		
248 bgs	B16VV9	ug/kg	8880	U		474	U	10100		6580		10800					5690	U
dup of B16RW7	B16RW8	ug/kg													430	U		
dup of B16RX8	B16RX9	ug/kg	34100	E	J	208		4910		10500		13000					2780	
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	102	U		0.125[a]	U	1.56[a]		0.25	U	0.625[a]	U		2.00	U	1.50[a]	U
Target Quantitation Limit		ug/kg				500		1000				2500			500		10000	

Table B2-2. Metal Analysis Results for 216-A-19 (C3245) Trench Samples

			Manganese			Mercury		Molybdenum			Nickel		Selenium			Silver		
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	Val Qual	Result	Q	Val Qual
14.5 bgs	B16RW5	ug/kg																
14.5 bgs	B16RX6	ug/kg	430000		J	47.8	U	1430	UE	UJ	8540		1430	UE	UJ	95.6	U	
17.5 bgs	B16RW6	ug/kg																
17.5 bgs	B16RX7	ug/kg	538000			49.6	U	1490	UE		8260		1490	UE		109		
22.5 bgs	B16RW7	ug/kg																
22.5 bgs	B16RX8	ug/kg	433000		J	48.6	U	1540	E	J	6250		1460	UE	UJ	118		J
27.5 bgs	B16RW9	ug/kg																
27.5 bgs	B16RY0	ug/kg	354000			496	U	1490	U		6320		1490	U		992	U	
32.5 bgs	B16RX0	ug/kg																
32.5 bgs	B16RY1	ug/kg	433000			492	U	1480	U		7410		1480	U		984	U	
47.5 bgs	B16RX1	ug/kg																
47.5 bgs	B16RY2	ug/kg	324000			473	U	1420	U		12400		1420	U		946	U	
97.5 bgs	B16RX2	ug/kg																
97.5 bgs	B16RY3	ug/kg	237000			437	U	1310	U		8020		1310	U		874	U	
207.5 bgs	B16RX3	ug/kg																
207.5 bgs	B16RY4	ug/kg	275000			490	U	4390			10800		1470	U		980	U	
242.5 bgs	B16RX4	ug/kg																
242.5 bgs	B16RY5	ug/kg	310000			495	U	1480	U		13400		1480	U		990	U	
248 bgs	B16RX5	ug/kg																
248 bgs	B16VV9	ug/kg	271000			474	U	1420	U		13300		1420	U		948	U	
dup of B16RW7	B16RW8	ug/kg																
dup of B16RX8	B16RX9	ug/kg	456000		J	47.9	U	1440	UE	UJ	6900		1440	UE	UJ	95.8	U	
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	1.32[a]			0.125	U	0.381[a]			1.76[a]		0.375[a]	U		0.482[a]		
Target Quantitation Limit		ug/kg				200					4000		10000			2000		

Table B2-2. Metal Analysis Results for 216-A-19 (C3245) Trench Samples

			Thallium		Thorium			Tin		Vanadium			Zinc		
Interval	HEIS	Units	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	Val Qual	Result	Q	Val Qual
14.5 bgs	B16RW5	ug/kg													
14.5 bgs	B16RX6	ug/kg	68.4		3490		J			96100		J	56600		J
17.5 bgs	B16RW6	ug/kg													
17.5 bgs	B16RX7	ug/kg	78.2		2220					99600			57300		
22.5 bgs	B16RW7	ug/kg													
22.5 bgs	B16RX8	ug/kg	121		2410		J			104000		J	58800		J
27.5 bgs	B16RW9	ug/kg													
27.5 bgs	B16RY0	ug/kg	580		1950					107000			52100		
32.5 bgs	B16RX0	ug/kg													
32.5 bgs	B16RY1	ug/kg	492	U	2520					104000			50000		
47.5 bgs	B16RX1	ug/kg													
47.5 bgs	B16RY2	ug/kg	473	U	2460					64900			41300		
97.5 bgs	B16RX2	ug/kg													
97.5 bgs	B16RY3	ug/kg	437	U	2690					35900			31400		
207.5 bgs	B16RX3	ug/kg													
207.5 bgs	B16RY4	ug/kg	534		2050					62000			85600	E	
242.5 bgs	B16RX4	ug/kg													
242.5 bgs	B16RY5	ug/kg	495	U	3510					48500			36400		
248 bgs	B16RX5	ug/kg													
248 bgs	B16VV9	ug/kg	474	U	2480					52200			38800		
dup of B16RW7	B16RW8	ug/kg													
dup of B16RX8	B16RX9	ug/kg	103		2730		J			108000		J	57300		J
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	0.314		0.257			22.0		0.50[a]	U		500[a]	U	
Target Quantitation Limit		ug/kg													

a. Method 200.8 used because of lower detection limit

bgs = Below ground surface
dup = Duplicate
E = Estimated
HEIS = Hanford Environmental Information System
J = Estimated
Q = Qualifier
U = Undetected
Val Qual = Validation qualifier

Table B2-3. General Inorganic Analysis Results for 216-A-19 (C3245) Trench Samples

			Ammonia as N			Bromide		Chloride		Cyanide			Fluoride			Nitrate as N		Nitrite as N	
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Result	Q
14.5 bgs	B16RW5	ug/kg																	
14.5 bgs	B16RX6	ug/kg	470		J	900	U	22500		190	U	UJ	5620			546000		180	U
17.5 bgs	B16RW6	ug/kg																	
17.5 bgs	B16RX7	ug/kg	2080			900	U	19200		200	U		1620	BE		414000		180	U
22.5 bgs	B16RW7	ug/kg																	
22.5 bgs	B16RX8	ug/kg	6220		J	900	U	20700		200	U	UJ	981	BX	J	447000		451	B
27.5 bgs	B16RW9	ug/kg																	
27.5 bgs	B16RY0	ug/kg	2870			855	U	33100		200	U		1820			9860000		998	
27.5 bgs	B16RY8	%																	
32.5 bgs	B16RX0	ug/kg																	
32.5 bgs	B16RY1	ug/kg	5610			900	U	27500		200	U		2450			1050000		1120	
47.5 bgs	B16RX1	ug/kg																	
47.5 bgs	B16RY2	ug/kg	200	U		450	U	2550		200	U		843			3230		90.0	U
97.5 bgs	B16RX2	ug/kg																	
97.5 bgs	B16RY3	ug/kg	200	U		2250	U	5030		200	U		350	U		26200		450	U
97.5 bgs	B16RY9	%																	
207.5 bgs	B16RX3	ug/kg																	
207.5 bgs	B16RY4	ug/kg	200	U		2250	U	3800		200	U		2320			7030		450	U
242.5 bgs	B16RX4	ug/kg																	
242.5 bgs	B16RY5	ug/kg	200	U		2250	U	2820	B	190	U		350	U		5230		450	U
242.5 bgs	B16T00	%																	
248 bgs	B16RX5	ug/kg																	
248 bgs	B16VV9	ug/kg	200	U		2250	U	2170		190	U		350	U		2540		450	U
dup of B16RW7	B16RW8	ug/kg																	
dup of B16RX8	B16RX9	ug/kg	6790		J	855	U	19400		200	U	UJ	1030		J	415000		406	
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	6.10	E		45.0	UE	175		4.00	U		7.00	U		5.00	U	9.00	U
Target Quantitation Limit		ug/kg	500					2000		500			5000			2500		2500	

Table B2-3. General Inorganic Analysis Results for 216-A-19 (C3245) Trench Samples

			Nitrogen in Nitrite and Nitrate		Percent moisture (wet sample)		pH Measurement				Phosphate		Sulfate		
Interval	HEIS	Units	Result	Q	Result	Q	Result	Units	Q	Val Qual	Result	Q	Result	Q	Val Qual
14.5 bgs	B16RW5	ug/kg	544000												
14.5 bgs	B16RX6	ug/kg					10.1	pH		J	4850	B	113000	E	J
17.5 bgs	B16RW6	ug/kg	476000												
17.5 bgs	B16RX7	ug/kg					9.84	pH			3190	B	104000	E	
22.5 bgs	B16RW7	ug/kg	433000												
22.5 bgs	B16RX8	ug/kg					9.60	pH		J	4330	B	118000		
27.5 bgs	B16RW9	ug/kg	861000												
27.5 bgs	B16RY0	ug/kg					9.43	pH			1390		67400		
27.5 bgs	B16RY8	%			4.00										
32.5 bgs	B16RX0	ug/kg	1120000												
32.5 bgs	B16RY1	ug/kg					8.96	pH			1630		294000		
47.5 bgs	B16RX1	ug/kg	3100												
47.5 bgs	B16RY2	ug/kg					9.28	pH			130	U	26200		
97.5 bgs	B16RX2	ug/kg	24800												
97.5 bgs	B16RY3	ug/kg					8.78	pH			650	U	19000		
97.5 bgs	B16RY9	%			1.70										
207.5 bgs	B16RX3	ug/kg	7800												
207.5 bgs	B16RY4	ug/kg					8.79	pH			650	U	92600		
242.5 bgs	B16RX4	ug/kg	4500												
242.5 bgs	B16RY5	ug/kg					8.85	pH			650	U	60800		
242.5 bgs	B16T00	%			2.80										
248 bgs	B16RX5	ug/kg	2000												
248 bgs	B16VV9	ug/kg					8.98	pH			650	U	27900		
dup of B16RW7	B16RW8	ug/kg	501000												
dup of B16RX8	B16RX9	ug/kg					9.59	pH		J	5040		114000		
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L									13.0	U	24.0	U	
Target Quantitation Limit		ug/kg									5000		5000		

B = Analyte found in associated method blank
bgs = Below ground surface
dup = Duplicate
E = Estimated
HEIS = Hanford Environmental Information System
J = Estimated
Q = Qualifier
U = Undetected
UJ = Undetected, detection limit is estim
X = Other Laboratory-defined flags apply wn in the laboratory data report

Table B2-4. Volatile Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			1 1 1-Trichloro ethane		1 1 2 2-Tetrachloro ethane		1 1 2-Trichloro ethane		1 1-Dichloro ethane		1 1-Dichloro ethene		1 2-Dichloro ethane		1 2-Dichloro ethene(Total)	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B16RX6	ug/kg									2.00	U				
17.5 bgs	B16RX7	ug/kg	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U
22.5 bgs	B16RX8	ug/kg									2.10	U				
27.5 bgs	B16RY0	ug/kg									2.10	U				
32.5 bgs	B16RY1	ug/kg									1.00	U				
47.5 bgs	B16RY2	ug/kg									2.00	U				
97.5 bgs	B16RY3	ug/kg									1.90	U				
207.5 bgs	B16RY4	ug/kg									1.90	U				
242.5 bgs	B16RY5	ug/kg									1.90	U				
248 bgs	B16VV9	ug/kg									1.80	U				
dup of B16RX8	B16RX9	ug/kg									2.00	U				
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U
Target Quantitation Limit		ug/kg	5.00						10.0				5.00		10.0	

Table B2-4. Volatile Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			1 2-Dichloro propane		1-Butanol		2-Butanone		2-Hexanone		2-Pentanone		4-Methyl-2-Pentanone		Acetone		Benzene		Bromo dichloro methane	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B16RX6	ug/kg			20.0	U											2.00	U		
17.5 bgs	B16RX7	ug/kg	2.00	U	20.0	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U
22.5 bgs	B16RX8	ug/kg			21.0	U											2.10	U		
27.5 bgs	B16RY0	ug/kg			21.0	U											2.10	U		
32.5 bgs	B16RY1	ug/kg			10.0	U											1.00	U		
47.5 bgs	B16RY2	ug/kg			20.0	U											2.00	U		
97.5 bgs	B16RY3	ug/kg			19.0	U											1.90	U		
207.5 bgs	B16RY4	ug/kg			19.0	U											1.90	U		
242.5 bgs	B16RY5	ug/kg			19.0	U											1.90	U		
248 bgs	B16VV9	ug/kg			18.0	U											1.80	U		
dup of B16RX8	B16RX9	ug/kg			20.0	U											2.00	U		
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	1.00	U	10.0	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U
Target Quantitation Limit		ug/kg			5000		10.0						10.0		20.00		5.00			

Table B2-4. Volatile Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			Bromo form		Bromo methane		Carbon disulfide		Carbon tetra chloride		Chloro benzene		Chloro ethane		Chloro form		Chloro methane		cis-1 3-Dichloro propene	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B16RX6	ug/kg									2.00	U								
17.5 bgs	B16RX7	ug/kg	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U
22.5 bgs	B16RX8	ug/kg									2.10	U								
27.5 bgs	B16RY0	ug/kg									2.10	U								
32.5 bgs	B16RY1	ug/kg									1.00	U								
47.5 bgs	B16RY2	ug/kg									2.00	U								
97.5 bgs	B16RY3	ug/kg									1.90	U								
207.5 bgs	B16RY4	ug/kg									1.90	U								
242.5 bgs	B16RY5	ug/kg									1.90	U								
248 bgs	B16VV9	ug/kg									1.80	U								
dup of B16RX8	B16RX9	ug/kg									2.00	U								
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U
Target Quantitation Limit		ug/kg							5.00		5.00				5.00					

Table B2-4. Volatile Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			Dibromo chloro methane		Ethyl benzene		Methylene chloride		n-Butyl benzene		Styrene		Tetra chloro ethene		Toluene		trans-1 2-Dichloro ethylene	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B16RX6	ug/kg													2.00	U		
17.5 bgs	B16RX7	ug/kg	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U		
22.5 bgs	B16RX8	ug/kg													2.10	U		
27.5 bgs	B16RY0	ug/kg													2.10	U		
32.5 bgs	B16RY1	ug/kg													1.00	U		
47.5 bgs	B16RY2	ug/kg													2.00	U		
97.5 bgs	B16RY3	ug/kg													1.90	U		
207.5 bgs	B16RY4	ug/kg													1.90	U		
242.5 bgs	B16RY5	ug/kg													1.90	U		
248 bgs	B16VV9	ug/kg													1.80	U		
dup of B16RX8	B16RX9	ug/kg													2.00	U		
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U
Target Quantitation Limit		ug/kg			5.00		5.00		5.00				5.00		5.00			

Table B2-4. Volatile Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			trans-1 3-Dichloro propene		Trichloro ethene		Vinyl chloride		Xylenes (total)	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B16RX6	ug/kg			2.00	U				
17.5 bgs	B16RX7	ug/kg	2.00	U	2.00	U	2.00	U	2.00	U
22.5 bgs	B16RX8	ug/kg			2.10	U				
27.5 bgs	B16RY0	ug/kg			2.10	U				
32.5 bgs	B16RY1	ug/kg			1.00	U				
47.5 bgs	B16RY2	ug/kg			2.00	U				
97.5 bgs	B16RY3	ug/kg			1.90	U				
207.5 bgs	B16RY4	ug/kg			1.90	U				
242.5 bgs	B16RY5	ug/kg			1.90	U				
248 bgs	B16VV9	ug/kg			1.80	U				
dup of B16RX8	B16RX9	ug/kg			2.00	U				
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	1.00	U	1.00	U	1.00	U	1.00	U
Target Quantitation Limit		ug/kg			5.00				5.00	

a. ug/L reported - units under investigation for B16RY1.
Evaluated as soil per case narrative.

bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
Q = Qualifier
U = Undetected

Table B2-5. Semi-Volatile Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			1 2 4-Trichloro benzene		1 2-Dichloro benzene		1 3-Dichloro benzene		1 4-Dichloro benzene		2 4 5-Trichloro phenol		2 4 6-Trichloro phenol		2 4-Dichloro phenol		
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual
14.5 bgs	B16RX6	ug/kg	300	U	370	U	330	U	320	U	690	U	69.0	U	82.0	U	UJ
17.5 bgs	B16RX7	ug/kg	300	U	370	U	330	U	320	U	690	U	69.0	U	82.0	U	
22.5 bgs	B16RX8	ug/kg	310	U	380	U	340	U	330	U	710	U	71.0	U	85.0	U	
27.5 bgs	B16RY0	ug/kg	300	U	370	U	330	U	330	U	76.0	U	69.0	U	83.0	U	
32.5 bgs	B16RY1	ug/kg	310	U	380	U	340	U	330	U	77.0	U	70.0	U	84.0	U	
47.5 bgs	B16RY2	ug/kg	300	U	370	U	330	U	320	U	75.0	U	68.0	U	82.0	U	
97.5 bgs	B16RY3	ug/kg	300	U	370	U	320	U	320	U	74.0	U	68.0	U	81.0	U	
207.5 bgs	B16RY4	ug/kg	300	U	360	U	320	U	320	U	74.0	U	67.0	U	81.0	U	
242.5 bgs	B16RY5	ug/kg	290	U	360	U	320	U	310	U	73.0	U	66.0	U	79.0	U	
248 bgs	B16VV9	ug/kg	300	U	360	U	320	U	320	U	74.0	U	67.0	U	81.0	U	
dup of B16RX8	B16RX9	ug/kg	310	U	370	U	330	U	330	U	76.0	U	69.0	U	83.0	U	
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	3.40	U	4.80	U	5.90	U	5.70	U	2.20	U	2.70	U	1.60	U	

Table B2-5. Semi-Volatile Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			2 4-Dimethyl phenol			2 4-Dinitrophenol			2 4-Dinitro toluene		2 6-Dinitro toluene		2-Butoxy ethanol		2-Chloronaph thalene		2-Chlorophenol		
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual
14.5 bgs	B16RX6	ug/kg	69.0	U	UJ	690	U	UJ	69.0	U	69.0	U	100	U	82.0	U	150	U	UJ
17.5 bgs	B16RX7	ug/kg	69.0	U		690	U		69.0	U	69.0	U	100	U	82.0	U	150	U	
22.5 bgs	B16RX8	ug/kg	71.0	U		710	U		71.0	U	71.0	U	110	U	85.0	U	160	U	
27.5 bgs	B16RY0	ug/kg	69.0	U		690	U		69.0	U	69.0	U	100	U	83.0	U	150	U	
32.5 bgs	B16RY1	ug/kg	70.0	U		700	U		70.0	U	70.0	U	110	U	84.0	U	150	U	
47.5 bgs	B16RY2	ug/kg	68.0	U		680	U		68.0	U	68.0	U	100	U	82.0	U	150	U	
97.5 bgs	B16RY3	ug/kg	68.0	U		680	U		68.0	U	68.0	U	100	U	81.0	U	150	U	
207.5 bgs	B16RY4	ug/kg	67.0	U		670	U		67.0	U	67.0	U	100	U	81.0	U	150	U	
242.5 bgs	B16RY5	ug/kg	66.0	U		660	U		66.0	U	66.0	U	99.0	U	79.0	U	150	U	
248 bgs	B16VV9	ug/kg	67.0	U		670	U		67.0	U	67.0	U	100	U	81.0	U	150	U	
dup of B16RX8	B16RX9	ug/kg	69.0	U		230	U		69.0	U	69.0	U	100	U	83.0	U	150	U	
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	4.90	U		3.80	U		2.00	U	2.50	U	3.50	U	2.60	U	1.90	U	

Table B2-5. Semi-Volatile Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			2-Methylnaphthalene		2-Methylphenol (cresol o-)			2-Nitro aniline		2-Nitrophenol			3 3'-Dichloro benzidine		3-Methylphenol (cresol m-)		3-Nitro aniline	
Interval	HEIS	Units	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q
14.5 bgs	B16RX6	ug/kg	190	U	69.0	U	UJ	69.0	U	180	U	UJ	82.0	U	120	U	69.0	U
17.5 bgs	B16RX7	ug/kg	190	U	69.0	U		69.0	U	180	U		82.0	U	120	U	69.0	U
22.5 bgs	B16RX8	ug/kg	190	U	71.0	U		71.0	U	180	U		85.0	U	120	U	71.0	U
27.5 bgs	B16RY0	ug/kg	190	U	69.0	U		69.0	U	180	U		83.0	U	120	U	69.0	U
32.5 bgs	B16RY1	ug/kg	190	U	70.0	U		70.0	U	180	U		84.0	U	120	U	70.0	U
47.5 bgs	B16RY2	ug/kg	180	U	68.0	U		68.0	U	180	U		82.0	U	120	U	68.0	U
97.5 bgs	B16RY3	ug/kg	180	U	68.0	U		68.0	U	180	U		81.0	U	110	U	68.0	U
207.5 bgs	B16RY4	ug/kg	180	U	67.0	U		67.0	U	180	U		81.0	U	110	U	67.0	U
242.5 bgs	B16RY5	ug/kg	180	U	66.0	U		66.0	U	170	U		79.0	U	110	U	66.0	U
248 bgs	B16VV9	ug/kg	180	U	67.0	U		67.0	U	170	U		81.0	U	110	U	67.0	U
dup of B16RX8	B16RX9	ug/kg	190	U	69.0	U		69.0	U	180	U		83.0	U	120	U	69.0	U
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	2.20	U	2.60	U		2.40	U	2.30	U		4.70	U	3.60	U	5.10	U

Table B2-5. Semi-Volatile Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			4 6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether			4-Chloro-3-methylphenol			4-Chloro aniline		4-Chlorophenyl phenyl ether			4-Nitro aniline		4-Nitro phenol	
Interval	HEIS	Units	Result	Q	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q
14.5 bgs	B16RX6	ug/kg	690	U	69.0	U	UJ	69.0	U	UJ	96.0	U	69.0	U	UJ	250	U	670	U
17.5 bgs	B16RX7	ug/kg	690	U	69.0	U		69.0	U		96.0	U	69.0	U		250	U	670	U
22.5 bgs	B16RX8	ug/kg	710	U	71.0	U		71.0	U		99.0	U	71.0	U		260	U	690	U
27.5 bgs	B16RY0	ug/kg	690	U	69.0	U		69.0	U		97.0	U	69.0	U		260	U	670	U
32.5 bgs	B16RY1	ug/kg	700	U	70.0	U		70.0	U		98.0	U	70.0	U		260	U	680	U
47.5 bgs	B16RY2	ug/kg	680	U	68.0	U		68.0	U		95.0	U	68.0	U		250	U	660	U
97.5 bgs	B16RY3	ug/kg	680	U	68.0	U		68.0	U		95.0	U	68.0	U		250	U	660	U
207.5 bgs	B16RY4	ug/kg	670	U	67.0	U		67.0	U		94.0	U	67.0	U		250	U	650	U
242.5 bgs	B16RY5	ug/kg	660	U	66.0	U		66.0	U		92.0	U	66.0	U		240	U	640	U
248 bgs	B16VV9	ug/kg	670	U	67.0	U		67.0	U		94.0	U	67.0	U		250	U	650	U
dup of B16RX8	B16RX9	ug/kg	690	U	69.0	U		69.0	U		97.0	U	69.0	U		260	U	670	U
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	1.90	U	2.20	U		1.50	U		8.20	U	2.50	U		3.30	U	1.60	U

Table B2-5. Semi-Volatile Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			Acenaphthene		Acenaphthylene		Anthracene		Benzo(a) anthracene		Benzo(a) pyrene		Benzo(b) fluoranthene		Benzo(ghi) perylene		Benzo(k) fluoranthene		Benzyl alcohol	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B16RX6	ug/kg	69.0	U	82.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U		
17.5 bgs	B16RX7	ug/kg	69.0	U	82.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U	75.0	U
22.5 bgs	B16RX8	ug/kg	71.0	U	85.0	U	71.0	U	71.0	U	71.0	U	71.0	U	71.0	U	71.0	U		
27.5 bgs	B16RY0	ug/kg	69.0	U	83.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U	76.0	U
32.5 bgs	B16RY1	ug/kg	70.0	U	84.0	U	70.0	U	70.0	U	70.0	U	70.0	U	70.0	U	70.0	U	77.0	U
47.5 bgs	B16RY2	ug/kg	68.0	U	82.0	U	68.0	U	68.0	U	68.0	U	68.0	U	68.0	U	68.0	U	75.0	U
97.5 bgs	B16RY3	ug/kg	68.0	U	81.0	U	68.0	U	68.0	U	68.0	U	68.0	U	68.0	U	68.0	U		
207.5 bgs	B16RY4	ug/kg	67.0	U	81.0	U	67.0	U	67.0	U	67.0	U	67.0	U	67.0	U	67.0	U		
242.5 bgs	B16RY5	ug/kg	66.0	U	79.0	U	66.0	U	66.0	U	66.0	U	66.0	U	66.0	U	66.0	U		
248 bgs	B16VV9	ug/kg	67.0	U	81.0	U	67.0	U	67.0	U	67.0	U	67.0	U	67.0	U	67.0	U		
dup of B16RX8	B16RX9	ug/kg	69.0	U	83.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U		
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	2.70	U	2.60	U	2.30	U	2.40	U	2.20	U	1.90	U	2.80	U	3.20	U	2.00	U

Table B2-5. Semi-Volatile Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			Bis(2-chloro-1-methylethyl)ether		Bis(2-Chloroethoxy) methane		Bis(2-chloroethyl) ether		Bis(2-ethylhexyl) adipate		Bis(2-ethylhexyl) phthalate			Butylbenzyl phthalate		
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual	Result	Q	Val Qual
14.5 bgs	B16RX6	ug/kg	260	U	120	U	250	U			660	J	J	69.0	U	UJ
17.5 bgs	B16RX7	ug/kg	260	U	120	U	250	U			680	J		69.0	U	
22.5 bgs	B16RX8	ug/kg	270	U	120	U	260	U			620	J		71.0	U	
27.5 bgs	B16RY0	ug/kg	260	U	120	U	260	U			580	U		69.0	U	
32.5 bgs	B16RY1	ug/kg	270	U	120	U	260	U			590	U		70.0	U	
47.5 bgs	B16RY2	ug/kg	260	U	120	U	250	U			570	U		68.0	U	
97.5 bgs	B16RY3	ug/kg	260	U	110	U	250	U			570	U		68.0	U	
207.5 bgs	B16RY4	ug/kg	260	U	110	U	250	U	470	JN	1100			67.0	U	
242.5 bgs	B16RY5	ug/kg	250	U	110	U	240	U			550	U		66.0	U	
248 bgs	B16VV9	ug/kg	250	U	110	U	250	U			560	U		67.0	U	
dup of B16RX8	B16RX9	ug/kg	260	U	120	U	260	U			580	U		69.0	U	
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	2.40	U	2.30	U	3.90	U			3.00	U		2.30	U	

Table B2-5. Semi-Volatile Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			Carbazole		Chrysene		Cyclohexane 2- Butyl-1 1 3-trimethyl-		Decahydro-2 6-dimethyl- naphthalene		Dibenz[a h] anthracene	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B16RX6	ug/kg	82.0	U	69.0	U	1100	J	1100	J	69.0	U
17.5 bgs	B16RX7	ug/kg	82.0	U	69.0	U	1200	JN	1000	JN	69.0	U
22.5 bgs	B16RX8	ug/kg	85.0	U	71.0	U					71.0	U
27.5 bgs	B16RY0	ug/kg	83.0	U	69.0	U					69.0	U
32.5 bgs	B16RY1	ug/kg	84.0	U	70.0	U					70.0	U
47.5 bgs	B16RY2	ug/kg	82.0	U	68.0	U					68.0	U
97.5 bgs	B16RY3	ug/kg	81.0	U	68.0	U					68.0	U
207.5 bgs	B16RY4	ug/kg	81.0	U	67.0	U					67.0	U
242.5 bgs	B16RY5	ug/kg	79.0	U	66.0	U					66.0	U
248 bgs	B16VV9	ug/kg	81.0	U	67.0	U					67.0	U
dup of B16RX8	B16RX9	ug/kg	83.0	U	69.0	U					69.0	U
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	1.60	U	2.60	U					3.00	U

Table B2-5. Semi-Volatile Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			Dibenzofuran			Diethylphthalate			Dimethyl phthalate			Di-n-butylphthalate			Di-n-octylphthalate		
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual
14.5 bgs	B16RX6	ug/kg	69.0	U	UJ	190	U	UJ	69.0	U	UJ	89.0	U	UJ	69.0	U	UJ
17.5 bgs	B16RX7	ug/kg	69.0	U		420	J		69.0	U		89.0	U		69.0	U	
22.5 bgs	B16RX8	ug/kg	71.0	U		1100	B	U	71.0	U		92.0	U		71.0	U	
27.5 bgs	B16RY0	ug/kg	69.0	U		790	B		69.0	U		90.0	U		69.0	U	
32.5 bgs	B16RY1	ug/kg	70.0	U		1000	B		70.0	U		91.0	U		70.0	U	
47.5 bgs	B16RY2	ug/kg	68.0	U		600	BJ		68.0	U		88.0	U		68.0	U	
97.5 bgs	B16RY3	ug/kg	68.0	U		930	B		68.0	U		88.0	U		68.0	U	
207.5 bgs	B16RY4	ug/kg	67.0	U		630	BJ		67.0	U		88.0	U		67.0	U	
242.5 bgs	B16RY5	ug/kg	66.0	U		760	B		66.0	U		86.0	U		66.0	U	
248 bgs	B16VV9	ug/kg	67.0	U		190	U		67.0	U		87.0	U		67.0	U	
dup of B16RX8	B16RX9	ug/kg	69.0	U		1000	B	U	69.0	U		90.0	U		69.0	U	
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	2.20	U		7.20	U		2.40	U		2.40	U		2.80	U	
Target Quantitation Limit		ug/kg															

Table B2-5. Semi-Volatile Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			Fluor anthene		Fluorene		Hexachloro benzene		Hexachloro butadiene		Hexachlorocyclo pentadiene		Hexachloro ethane		Indeno(1 2 3-cd) pyrene	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B16RX6	ug/kg	69.0	U	69.0	U	69.0	U	380	U	320	U	480	U	69.0	U
17.5 bgs	B16RX7	ug/kg	69.0	U	69.0	U	69.0	U	380	U	320	U			69.0	U
22.5 bgs	B16RX8	ug/kg	71.0	U	71.0	U	71.0	U	390	U	330	U	500	U	71.0	U
27.5 bgs	B16RY0	ug/kg	69.0	U	69.0	U	69.0	U	380	U	330	U	480	U	69.0	U
32.5 bgs	B16RY1	ug/kg	70.0	U	70.0	U	70.0	U	390	U	330	U	490	U	70.0	U
47.5 bgs	B16RY2	ug/kg	68.0	U	68.0	U	68.0	U	370	U	320	U	480	U	68.0	U
97.5 bgs	B16RY3	ug/kg	68.0	U	68.0	U	68.0	U	370	U	320	U	470	U	68.0	U
207.5 bgs	B16RY4	ug/kg	67.0	U	67.0	U	67.0	U	370	U	320	U	470	U	67.0	U
242.5 bgs	B16RY5	ug/kg	66.0	U	66.0	U	66.0	U	360	U	310	U	460	U	66.0	U
248 bgs	B16VV9	ug/kg	67.0	U	67.0	U	67.0	U	370	U	320	U	470	U	67.0	U
dup of B16RX8	B16RX9	ug/kg	69.0	U	69.0	U	69.0	U	380	U	330	U	490	U	69.0	U
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	2.40	U	2.30	U	2.40	U	4.10	U	8.90	U	6.20	U	3.00	U
Target Quantitation Limit		ug/kg														

Table B2-5. Semi-Volatile Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			Isophorone			Naph thalene		n-Butyl benzene sulfonamide		Nitro benzene		N-Nitrosodi-n-dipropylamine		N-Nitrosodiph enylamine	
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B16RX6	ug/kg	69.0	U	UJ	300	U	2900	J	270	U	69.0	U	69.0	U
17.5 bgs	B16RX7	ug/kg	69.0	U		300	U	2400	JN	270	U	69.0	U	69.0	U
22.5 bgs	B16RX8	ug/kg	71.0	U		300	U	1700	BJ	280	U	71.0	U	71.0	U
27.5 bgs	B16RY0	ug/kg	69.0	U		300	U	1800	J	270	U	69.0	U	69.0	U
32.5 bgs	B16RY1	ug/kg	70.0	U		300	U	2600	J	270	U	70.0	U	70.0	U
47.5 bgs	B16RY2	ug/kg	68.0	U		290	U	4300	J	260	U	68.0	U	68.0	U
97.5 bgs	B16RY3	ug/kg	68.0	U		290	U	2000	J	260	U	68.0	U	68.0	U
207.5 bgs	B16RY4	ug/kg	67.0	U		290	U	960	J	260	U	67.0	U	67.0	U
242.5 bgs	B16RY5	ug/kg	66.0	U		280	U			260	U	66.0	U	66.0	U
248 bgs	B16VV9	ug/kg	67.0	U		290	U			260	U	67.0	U	67.0	U
dup of B16RX8	B16RX9	ug/kg	69.0	U		300	U	4400	BJ	270	U	69.0	U	69.0	U
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	2.20	U		2.70	U			2.30	U	1.90	U	2.60	U
Target Quantitation Limit		ug/kg													

Table B2-5. Semi-Volatile Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			o-Terphenyl			Pentachloro phenol		Phen anthrene		Phenol			Propionic Acid		Pyrene		Tributyl phosphate	
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q
14.5 bgs	B16RX6	ug/kg				310	U	69.0	U	100	U	UJ			69.0	U	280000	
17.5 bgs	B16RX7	ug/kg				310	U	69.0	U	100	U				69.0	U	130000	D
22.5 bgs	B16RX8	ug/kg	200	BJ	UJ	320	U	71.0	U	110	U				71.0	U	94.0	J
27.5 bgs	B16RY0	ug/kg				310	U	69.0	U	100	U				69.0	U	8500	D
32.5 bgs	B16RY1	ug/kg				320	U	70.0	U	110	U				70.0	U	29000	D
47.5 bgs	B16RY2	ug/kg				310	U	68.0	U	100	U				68.0	U	68.0	U
97.5 bgs	B16RY3	ug/kg				300	U	68.0	U	100	U				68.0	U	68.0	U
207.5 bgs	B16RY4	ug/kg				300	U	67.0	U	100	U				67.0	U	67.0	U
242.5 bgs	B16RY5	ug/kg				300	U	66.0	U	99.0	U		130	BJ	66.0	U	66.0	U
248 bgs	B16VV9	ug/kg				300	U	67.0	U	100	U				67.0	U	67.0	U
dup of B16RX8	B16RX9	ug/kg	320	J	UJ	310	U	69.0	U	100	U				69.0	U	100	J
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L				1.90	U	2.50	U	1.90	U				2.40	U	2.80	U
Target Quantitation Limit		ug/kg								330							3300	

B = Analyte found in associated method blank
bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
J = Estimated
N = Tentatively identified compound based on mass spectral library search
Q = Qualifier
U = Undetected
UJ = Undetected, detection limit is estimated
Val Qual = Validation qualifier

Table B2-6. Miscellaneous Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			Endo sulfan I		Endrin		Hepta chlor		2 4 5-Trichloro phenoxyacetic acid		2 4-Dichloro phenoxyacetic acid		2-(2 4 5-Trichloro phenoxy) propionic acid		2-secButyl-4 6-dinitrophenol (DNBP)	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
0.5 bgs	B16RW4	ug/kg	1.70	U	3.40	U	1.70	U	17.0	U	34.0	U	17.0	U	17.0	U
14.5 bgs	B16RW5	ug/kg														
14.5 bgs	B16RX6	ug/kg														
17.5 bgs	B16RW6	ug/kg														
17.5 bgs	B16RX7	ug/kg														
22.5 bgs	B16RW7	ug/kg														
22.5 bgs	B16RX8	ug/kg														
27.5 bgs	B16RW9	ug/kg														
27.5 bgs	B16RY0	ug/kg														
32.5 bgs	B16RX0	ug/kg														
32.5 bgs	B16RY1	ug/kg														
47.5 bgs	B16RX1	ug/kg														
47.5 bgs	B16RY2	ug/kg														
97.5 bgs	B16RX2	ug/kg														
97.5 bgs	B16RY3	ug/kg														
207.5 bgs	B16RX3	ug/kg														
207.5 bgs	B16RY4	ug/kg														
242.5 bgs	B16RX4	ug/kg														
242.5 bgs	B16RY5	ug/kg														
248 bgs	B16RX5	ug/kg														
248 bgs	B16VV9	ug/kg														
dup of B16RW7	B16RW8	ug/kg														
dup of B16RX8	B16RX9	ug/kg														
equip blank tied to B16RX7 & B16RW6	B16LD9	ug/L														
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L														
Target Quantitation Limit		ug/kg														

Table B2-6. Miscellaneous Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			4-(2 4-Dichloro phenoxy) butanoic acid		Aldrin		Alpha-BHC		alpha-Chlordane		Aroclor-1016		Aroclor-1221		Aroclor-1232		Aroclor-1242		Aroclor-1248		Aroclor-1254	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
0.5 bgs	B16RW4	ug/kg	170.0	U	1.70	U	1.70	U	1.70	U												
14.5 bgs	B16RW5	ug/kg																				
14.5 bgs	B16RX6	ug/kg																				
17.5 bgs	B16RW6	ug/kg																				
17.5 bgs	B16RX7	ug/kg																				
22.5 bgs	B16RW7	ug/kg																				
22.5 bgs	B16RX8	ug/kg																				
27.5 bgs	B16RW9	ug/kg																				
27.5 bgs	B16RY0	ug/kg																				
32.5 bgs	B16RX0	ug/kg																				
32.5 bgs	B16RY1	ug/kg																				
47.5 bgs	B16RX1	ug/kg																				
47.5 bgs	B16RY2	ug/kg																				
97.5 bgs	B16RX2	ug/kg																				
97.5 bgs	B16RY3	ug/kg																				
207.5 bgs	B16RX3	ug/kg																				
207.5 bgs	B16RY4	ug/kg																				
242.5 bgs	B16RX4	ug/kg																				
242.5 bgs	B16RY5	ug/kg																				
248 bgs	B16RX5	ug/kg																				
248 bgs	B16VV9	ug/kg																				
dup of B16RW7	B16RW8	ug/kg																				
dup of B16RX8	B16RX9	ug/kg																				
equip blank tied to B16RX7 & B16RW6	B16LD9	ug/L																				
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L									0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
Target Quantitation Limit		ug/kg									100		100		100		100		100		100	

Table B2-6. Miscellaneous Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			Aroclor-1260		Aroclor-1262		Aroclor-1268		beta-1 2 3 4 5 6-Hexachlorocyclohexane		Dalapon		Delta-BHC		Dicamba		Dichlorodiphenyl dichloroethane	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
0.5 bgs	B16RW4	ug/kg							1.70	U	170	U	1.70	U	69.0	U	3.40	U
14.5 bgs	B16RW5	ug/kg																
14.5 bgs	B16RX6	ug/kg																
17.5 bgs	B16RW6	ug/kg																
17.5 bgs	B16RX7	ug/kg																
22.5 bgs	B16RW7	ug/kg																
22.5 bgs	B16RX8	ug/kg																
27.5 bgs	B16RW9	ug/kg																
27.5 bgs	B16RY0	ug/kg																
32.5 bgs	B16RX0	ug/kg																
32.5 bgs	B16RY1	ug/kg																
47.5 bgs	B16RX1	ug/kg																
47.5 bgs	B16RY2	ug/kg																
97.5 bgs	B16RX2	ug/kg																
97.5 bgs	B16RY3	ug/kg																
207.5 bgs	B16RX3	ug/kg																
207.5 bgs	B16RY4	ug/kg																
242.5 bgs	B16RX4	ug/kg																
242.5 bgs	B16RY5	ug/kg																
248 bgs	B16RX5	ug/kg																
248 bgs	B16VV9	ug/kg																
dup of B16RW7	B16RW8	ug/kg																
dup of B16RX8	B16RX9	ug/kg																
equip blank tied to B16RX7 & B16RW6	B16LD9	ug/L																
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	0.12	U	0.12	U	0.12	U										
Target Quantitation Limit		ug/kg	100		100		100											

Table B2-6. Miscellaneous Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			Dichlorodiphenyl dichloroethylene		Dichlorodiphenyl trichloroethane		Dichloro prop		Dieldrin		Diethyl ether		Endo sulfan II		Endo sulfan sulfate		Endrin aldehyde	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
0.5 bgs	B16RW4	ug/kg	3.40	U	3.40	U	170	U	3.40	U			3.40	U	3.40	U	3.40	U
14.5 bgs	B16RW5	ug/kg																
14.5 bgs	B16RX6	ug/kg									5000	U						
17.5 bgs	B16RW6	ug/kg																
17.5 bgs	B16RX7	ug/kg									5000	U						
22.5 bgs	B16RW7	ug/kg																
22.5 bgs	B16RX8	ug/kg									5000	U						
27.5 bgs	B16RW9	ug/kg																
27.5 bgs	B16RY0	ug/kg									5000	U						
32.5 bgs	B16RX0	ug/kg																
32.5 bgs	B16RY1	ug/kg									5000	U						
47.5 bgs	B16RX1	ug/kg																
47.5 bgs	B16RY2	ug/kg									5000	U						
97.5 bgs	B16RX2	ug/kg																
97.5 bgs	B16RY3	ug/kg									5000	U						
207.5 bgs	B16RX3	ug/kg																
207.5 bgs	B16RY4	ug/kg									5000	U						
242.5 bgs	B16RX4	ug/kg																
242.5 bgs	B16RY5	ug/kg									5000	U						
248 bgs	B16RX5	ug/kg																
248 bgs	B16VV9	ug/kg									5000	U						
dup of B16RW7	B16RW8	ug/kg																
dup of B16RX8	B16RX9	ug/kg									5000	U						
equip blank tied to B16RX7 & B16RW6	B16LD9	ug/L																
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L									5000	U						
Target Quantitation Limit		ug/kg																

Table B2-6. Miscellaneous Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			Endrin ketone		Ethylene glycol		Gamma-BHC (Lindane)		gamma-Chlordane		Heptachlor epoxide		Methanol		Methoxy chlor		Oil and grease		
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual
0.5 bgs	B16RW4	ug/kg	3.40	U			1.70	U	1.70	U	1.70	U			17.0	U			
14.5 bgs	B16RW5	ug/kg															694000	U	UJ
14.5 bgs	B16RX6	ug/kg			5000	U							1000	U					
17.5 bgs	B16RW6	ug/kg															696000	U	
17.5 bgs	B16RX7	ug/kg			5000	U							1000	U					
22.5 bgs	B16RW7	ug/kg															707000	U	UJ
22.5 bgs	B16RX8	ug/kg			5000	U							1000	U					
27.5 bgs	B16RW9	ug/kg															692000	U	
27.5 bgs	B16RY0	ug/kg			5000	U							1000	U					
32.5 bgs	B16RX0	ug/kg															709000	U	
32.5 bgs	B16RY1	ug/kg			5000	U							1000	U					
47.5 bgs	B16RX1	ug/kg															684000	U	
47.5 bgs	B16RY2	ug/kg			5000	U							1000	U					
97.5 bgs	B16RX2	ug/kg															679000	U	
97.5 bgs	B16RY3	ug/kg			5000	U							1000	U					
207.5 bgs	B16RX3	ug/kg															694000	U	
207.5 bgs	B16RY4	ug/kg			5000	U							1000	U					
242.5 bgs	B16RX4	ug/kg															685000	U	
242.5 bgs	B16RY5	ug/kg			5000	U							1000	U					
248 bgs	B16RX5	ug/kg															685000	U	
248 bgs	B16VV9	ug/kg			5000	U							1000	U					
dup of B16RW7	B16RW8	ug/kg															712000	U	UJ
dup of B16RX8	B16RX9	ug/kg			5000	U							1000	U					
equip blank tied to B16RX7 & B16RW6	B16LD9	ug/L															1000	U	
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L			5000	U							1000	U					
Target Quantitation Limit		ug/kg			5000												200000		

Table B2-6. Miscellaneous Organic Analysis Results for 216-A-19 (C3245) Trench Samples

			TPH - diesel range			TPH - gasoline range			TPH - kerosene range			Toxa phene	
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q
0.5 bgs	B16RW4	ug/kg										170	U
14.5 bgs	B16RW5	ug/kg											
14.5 bgs	B16RX6	ug/kg	230000		J	250	U	UJ	5000	U	UJ		
17.5 bgs	B16RW6	ug/kg											
17.5 bgs	B16RX7	ug/kg	300000	D		250	U		5000	UD			
22.5 bgs	B16RW7	ug/kg											
22.5 bgs	B16RX8	ug/kg	7800	J	J	250	U	UJ	4200	U	UJ		
27.5 bgs	B16RW9	ug/kg											
27.5 bgs	B16RY0	ug/kg	4100	U		50.0	U		4100	U			
32.5 bgs	B16RX0	ug/kg											
32.5 bgs	B16RY1	ug/kg	4200	U		50.0	U		4200	U			
47.5 bgs	B16RX1	ug/kg											
47.5 bgs	B16RY2	ug/kg	4100	U		50.0	U		4100	U			
97.5 bgs	B16RX2	ug/kg											
97.5 bgs	B16RY3	ug/kg	4700	U		50.0	U		4700	U			
207.5 bgs	B16RX3	ug/kg											
207.5 bgs	B16RY4	ug/kg	4000	U		100	U		4000	U			
242.5 bgs	B16RX4	ug/kg											
242.5 bgs	B16RY5	ug/kg	4000	U		100	U		4000	U			
248 bgs	B16RX5	ug/kg											
248 bgs	B16VV9	ug/kg	4000	U		100	U		4000	U			
dup of B16RW7	B16RW8	ug/kg											
dup of B16RX8	B16RX9	ug/kg	4200	U	UJ	250	U	UJ	4200	U	UJ		
equip blank tied to B16RX7 & B16RW6	B16LD9	ug/L											
equip blank tied to B16RX7 & B16RW6	B16LD9-A	ug/L	290	U		50.0	U		290	U			
Target Quantitation Limit		ug/kg	5000			5000			5000				

bgs = Below ground surface
D = Sample reanalyzed at higher dilution factor
dup = Duplicate
HEIS = Hanford Environmental Information System
J = Estimated
Q = Qualifier
U = Undetected
UJ = Undetected, detection limit is estima

Table B3-1. Radiochemical Analysis Results for 216-A-36B Crib (C3248) Samples

			Actinium-228			Americium-241				Antimony-125			Bismuth-212			Bismuth-214			Carbon-14				Cerium-144		
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Val Qual	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual	Result	Q	MDA
12.5 bgs	B173T6	pCi/g																	1.24	U	3.1				
12.5 bgs	B173T7	pCi/g	0.652		0.089	0.024	U	0.024		-0.003	U	0.062	0.367		0.2	0.416		0.05					-0.139	U	0.15
24 bgs	B17486	pCi/g	0.553		0.077	0.063		0.02		0.015	U	0.05	0.567		0.15	0.322		0.041					-0.057	U	0.1
25 bgs	B17487	pCi/g	360	U		40000				2080	U														
25 bgs	B17D43	pCi/g																	116		29.0				
27.5 bgs	B17D44	pCi/g				37.5		24.0											12.2	U	18.0				
30 bgs	B17D45	pCi/g				17.9	U	23.0											1.21	U	14.0				
40 bgs	B173V2	pCi/g	0.882	U	1.6	13.0	U	13.0	UJ	1.5	U	2.2	0.533	U	4.2	1.24		1.2					-1.65	U	11.0
40 bgs	B173V9	pCi/g				0	U	5.9											-0.909	U	2.7				
53.5 bgs	B173V3	pCi/g	0.667		0.29	0.19		0.14	J	0.308		0.21	0.819		0.74	0.242		0.24					-0.252	U	0.48
53.5 bgs	B173W0	pCi/g				0.194		0.19											0.108	U	2.7	UJ			
89.5 bgs	B173V5	pCi/g	0.767		0.089	0.071	U	0.071		0.088		0.067	0.41		0.19	0.465		0.045					-0.088	U	0.13
89.5 bgs	B173W2	pCi/g				0	U	0.15											0.184	U	2.8	UJ			
197.5 bgs	B173V6	pCi/g	0.611		0.069	0.022	U	0.051		0.006	U	0.045	0.442		0.14	0.416		0.035					-0.021	U	0.089
197.5 bgs	B173W3	pCi/g				-0.037	U	0.28											-2.78	U	3				
292 bgs	B173V8	pCi/g	0.983		0.057	0.045		0.041		0.003	U	0.05	0.562		0.13	0.808		0.034					0.031	U	0.17
292 bgs	B173W5	pCi/g				-0.012	U	0.035											0.799	U	3.2				
287.5 bgs	B173V7	pCi/g	0.99		0.054	0.088		0.051		0.023	U	0.044	0.669		0.13	0.753		0.031					0.047	U	0.12
287.5 bgs	B173W4	pCi/g				-0.009	U	0.029											-0.378	U	3.6				
318.5 bgs	B173W6	pCi/g				0.158	U	0.3											-0.294	U	3.1				
318.5 bgs	B173W7	pCi/g	0.556		0.036	0.014	U	0.035		0.007	U	0.03	0.32		0.085	0.49		0.022					-0.025	U	0.09
dup of B173V3	B173V4	pCi/g	0.861		0.39	0.16	U	0.16	UJ	0.293	U	0.37	0.924		0.81	1.27		0.22					0.192	U	0.77
dup of B173W0	B173W1	pCi/g				0.051	U	0.2											0.247	U	2.8	UJ			
equip blank tied to B174B4 & B17D45	B171B2	pCi/L	-8.63	U	21.0	0.1	U	0.14		-1.86	U	20.0	-7.77	U	55.0	-41.6	U	20.0					1.42	U	47.0
equip blank tied to B174B4 & B17D45	B171B4	pCi/L																	3.84	U	41.0				
Target Quantitation Limit		pCi/g				1													50.0						

Table B3-1. Radiochemical Analysis Results for 216-A-36B Crib (C3248) Samples

			Cesium-134			Cesium-137			Cobalt-60			Europium-152			Europium-154				Europium-155				Iodine-129		
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual	Result	Q	MDA	Val Qual	Result	Q	MDA
12.5 bgs	B173T6	pCi/g																					0.073	U	0.88
12.5 bgs	B173T7	pCi/g	0.019	U	0.031	-0.001	U	0.026	0.009	U	0.03	0.009	U	0.066	-0.009	U	0.089		0.003	U	0.087				
24 bgs	B17486	pCi/g	0.011	U	0.026	0.344		0.022	0.004	U	0.026	-0.022	U	0.049	0.03	U	0.08		0.053	U	0.054				
25 bgs	B17487	pCi/g	321	U		2650000			623			753	U		1800				550	U					
25 bgs	B17D43	pCi/g																					-23.5	U	51.0
27.5 bgs	B17D44	pCi/g		U	9.8	95100		16.0	8.34		5.1		U	83.0		U	15.0			U	51.0		1.33	U	20.0
30 bgs	B17D45	pCi/g		U	5.2	68200		26.0	4.01		2.2		U	66.0		U	6.8			U	40.0		-14.6	U	75.0
40 bgs	B173V2	pCi/g	-0.14	U	0.55	5.08		0.62	1.35		0.34	1.42	U	2.7	-0.167	U	0.89		0.461	U	6.6	UJ			
40 bgs	B173V9	pCi/g		U	1.3	0.936	U	1.2	0.909		0.54		U	3		U	1.3			U	3.4		0.492	U	4.5
53.5 bgs	B173V3	pCi/g	0.036	U	0.1	2.13		0.085	0.238		0.097	0.018	U	0.23	-0.025	U	0.28		0.112	U	0.27	UJ			
53.5 bgs	B173W0	pCi/g		U	0.11	2.56		0.13	0.28		0.11		U	0.23		U	0.3	UJ		U	0.27		-0.08	U	0.95
89.5 bgs	B173V5	pCi/g	0.033	U	0.04	0.051		0.025	0.045		0.028	0.004	U	0.061	-0.025	U	0.083		0.085		0.068				
89.5 bgs	B173W2	pCi/g		U	0.093	0.132		0.074		U	0.088		U	0.16		U	0.25	UJ		U	0.16		0.069	U	0.88
197.5 bgs	B173V6	pCi/g	0.04		0.025	-0.003	U	0.02	0.007	U	0.024	-0.01	U	0.043	-0.011	U	0.072		0.038	U	0.051				
197.5 bgs	B173W3	pCi/g		U	0.073		U	0.053		U	0.061		U	0.15		U	0.21			U	0.12		-0.277	U	1.5
292 bgs	B173V8	pCi/g	0.041	U	0.023	-0.001	U	0.019	0.035		0.017	-0.051	U	0.055	-0.019	U	0.054		0.018	U	0.094				
292 bgs	B173W5	pCi/g		U	0.15		U	0.093		U	0.14		U	0.21		U	0.34			U	0.19		-0.941	U	3.7
287.5 bgs	B173V7	pCi/g	0.045	U	0.021	-0.002	U	0.017	0.058		0.017	-0.034	U	0.046	-0.026	U	0.053		0.023	U	0.068				
287.5 bgs	B173W4	pCi/g		U	0.39		U	0.14		U	0.19		U	0.35		U	0.57			U	0.3		0.14	U	1.5
318.5 bgs	B173W6	pCi/g		U	0.11		U	0.078		U	0.083		U	0.2		U	0.26			U	0.14		-1.17	U	7.9
318.5 bgs	B173W7	pCi/g	0.03	U	0.015	0	U	0.011	0.003	U	0.012	0.004	U	0.034	-0.009	U	0.035		0.015	U	0.048				
dup of B173V3	B173V4	pCi/g	0.055	U	0.12	4.08		0.11	0.467		0.11	0.049	U	0.35	-0.017	U	0.34		0.105	U	0.4	UJ			
dup of B173W0	B173W1	pCi/g		U	0.1	2.55		0.09	0.246		0.1		U	0.19		U	0.26	UJ		U	0.17		-0.051	U	0.82
equip blank tied to B174B4 & B17D45	B171B2	pCi/L	-0.918	U	7.20	-1.75	U	7.10	0.309	U	7.6	0.987	U	21.0	-7.3	U	20.0		-11.5	U	22.0				
equip blank tied to B174B4 & B17D45	B171B4	pCi/L																					0.174	U	3.20
Target Quantitation Limit		pCi/g				0.10			0.05			0.10			0.10				0.10				2.00		

Table B3-1. Radiochemical Analysis Results for 216-A-36B Crib (C3248) Samples

			Lead-212			Lead-214			Neptunium-237				Nickel-63			Niobium-94			Plutonium-238				Plutonium-239/240			
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual	Result	Q	MDA	Val Qual
12.5 bgs	B173T6	pCi/g							0.04	U	0.12		0	U	2.2											
12.5 bgs	B173T7	pCi/g	0.674		0.04	0.528		0.048								0.005	U	0.02	0.019	U	0.019		0.0042	U	0.0042	
24 bgs	B17486	pCi/g	0.495		0.028	0.349		0.037								0.012	U	0.02	0.019	U	0.019		0.14		0.0042	
25 bgs	B17487	pCi/g							109	U		UJ							5330	U			98000			
25 bgs	B17D43	pCi/g											181000		940											
27.5 bgs	B17D44	pCi/g							0	U	17.0		917		200				2.51	U	24		67.6		19.0	
30 bgs	B17D45	pCi/g							0	U	15.0		695		190				5.02	U	19		17.5	U	19.0	
40 bgs	B173V2	pCi/g	1.19	U	2	1.21	U	1.9								-0.042	U	0.5	15	U	15	UJ	5.1	U	5.1	UJ
40 bgs	B173V9	pCi/g							0	U	3.5		18.1	U	35				0	U	3.3		0.436	U	3.3	
53.5 bgs	B173V3	pCi/g	0.476		0.14	0.481		0.17								-0.004	U	0.08	0.13	U	0.13	UJ	0.42		0.038	
53.5 bgs	B173W0	pCi/g							0.042	U	0.13		-0.786	U	2.2				0.035	U	0.19		0.368		0.13	
89.5 bgs	B173V5	pCi/g	0.737		0.035	0.519		0.044								0.002	U	0.02	0.034	U	0.034	UJ	0.021	U	0.021	
89.5 bgs	B173W2	pCi/g							0	U	0.12		-2.05	U	2.4				-0.027	U	0.21		0.027	U	0.21	
197.5 bgs	B173V6	pCi/g	0.537		0.025	0.475		0.032								0.007	U	0.02	0.002	U	0.04		0.006	U	0.016	
197.5 bgs	B173W3	pCi/g							0	U	0.15		-0.862	U	2.3				0.078	U	0.3		0	U	0.3	
292 bgs	B173V8	pCi/g	1.06		0.038	0.826		0.039								0.005	U	0.02	0.002	U	0.056		0.004	U	0.014	
292 bgs	B173W5	pCi/g							0	U	0.14		-0.481	U	2.3				0.031	U	0.24		0	U	0.24	
287.5 bgs	B173V7	pCi/g	1.04		0.031	0.858		0.034								0	U	0.02	0.05		0.048		0.011	U	0.016	
287.5 bgs	B173W4	pCi/g							0	U	0.12		-1.91	U	2.3				0.013	U	0.025		-0.01	U	0.036	
318.5 bgs	B173W6	pCi/g							0.026	U	0.078		-0.612	U	2.4				-0.023	U	0.17		0.022	U	0.17	
318.5 bgs	B173W7	pCi/g	0.575		0.023	0.558		0.025								-0.003	U	0.01	0.015	U	0.046		0.011	U	0.017	
dup of B173V3	B173V4	pCi/g	1.37		0.2	1.23		0.24								0.043	U	0.11	0.077	U	0.077	UJ	0.38		0.04	
dup of B173W0	B173W1	pCi/g							0	U	0.14		-1.68	U	2.4				0.052	U	0.2		0.414		0.2	
equip blank tied to B174B4 & B17D45	B171B2	pCi/L	0.962	U	14.0	-57.7	U	20.0								1.08	U	6.9	-0.013	U	0.053		0.013	U	0.033	
equip blank tied to B174B4 & B17D45	B171B4	pCi/L							0	U	0.11		-0.771	U	2.40											
Target Quantitation Limit		pCi/g							1.00				30.0						1.00				1.00			

Table B3-1. Radiochemical Analysis Results for 216-A-36B Crib (C3248) Samples

			Potassium-40			Radium-226[a]			Radium-228				Ruthenium-103			Ruthenium-106			Technetium-99			Thallium-208			Thorium-228		
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
12.5 bgs	B173T6	pCi/g																	0.034	U	0.37				0.213	U	0.33
12.5 bgs	B173T7	pCi/g				0.416		0.05	0.652		0.089		-0.006	U	0.022	0.037	U	0.23				0.214		0.023			
24 bgs	B17486	pCi/g				0.322		0.041	0.553		0.077		-0.004	U	0.018	0.065	U	0.19				0.171		0.02			
25 bgs	B17487	pCi/g				8980	U	9000																			
25 bgs	B17D43	pCi/g																	41.9		6.4						
27.5 bgs	B17D44	pCi/g		U	120		U	34.0		U	26.0								3.44	U	6.5				0.756	U	4.6
30 bgs	B17D45	pCi/g		U	47.0		U	33.0		U	22.0								1.3	U	4.4				1.01	U	3.1
40 bgs	B173V2	pCi/g				1.24		1.2	0.882	U	1.6	UJ	0.344	U	0.71	-2.04	U	5.5				0.124	U	0.65			
40 bgs	B173V9	pCi/g		U	45.0		U	1.9		U	3.2								-0.033	U	5.5				0.89	U	0.97
53.5 bgs	B173V3	pCi/g				0.481		0.24	0.667		0.29	J	-0.001	U	0.079	-0.244	U	0.73				0.198		0.081			
53.5 bgs	B173W0	pCi/g	19.4		1	0.743		0.18	1.15		0.44								-0.042	U	0.56				0.579		0.25
89.5 bgs	B173V5	pCi/g				0.465		0.045	0.767		0.089		0.004	U	0.021	-0.02	U	0.2				0.196		0.022			
89.5 bgs	B173W2	pCi/g	18.2		0.72	0.636		0.16	1.13		0.36								0.21	U	0.52				0.822		0.25
197.5 bgs	B173V6	pCi/g				0.416		0.035	0.611		0.069		0	U	0.016	-0.105	U	0.16				0.157		0.017			
197.5 bgs	B173W3	pCi/g	8.29		1.1	0.215		0.15		U	0.28								0.33	U	0.54				0.614		0.28
292 bgs	B173V8	pCi/g				0.808		0.034	0.983		0.057		0.002	U	0.017	-0.035	U	0.15				0.304		0.018			
292 bgs	B173W5	pCi/g	17.4		0.94	0.794		0.19	0.96		0.45								0.154	U	0.56				0.442		0.26
287.5 bgs	B173V7	pCi/g				0.753		0.031	0.99		0.054		-0.002	U	0.015	0.014	U	0.14				0.338		0.016			
287.5 bgs	B173W4	pCi/g	14.6		1.9	0.707		0.28	0.736		0.51								0.156	U	0.55				0.553		0.3
318.5 bgs	B173W6	pCi/g	14.8		0.88	0.378		0.15	0.775		0.37								-0.044	U	0.6				0.464		0.32
318.5 bgs	B173W7	pCi/g				0.49		0.022	0.556		0.036		-0.005	U	0.011	-0.053	U	0.09				0.163		0.011			
dup of B173V3	B173V4	pCi/g				1.27		0.22	0.861		0.39	J	0.012	U	0.11	-0.319	U	0.98				0.447		0.11			
dup of B173W0	B173W1	pCi/g	16.1		0.89	0.456		0.16	0.544		0.32								0.089	U	0.57				0.293		0.25
equip blank tied to B174B4 & B17D45	B171B2	pCi/L				0.007[b]	U	0.036	-8.63	U	21.0		0.963	U	7.6	0.023	U	66.0				-1.58	U	7.00			
equip blank tied to B174B4 & B17D45	B171B4	pCi/L																	2.63	U	4.1				0	U	0.18
Target Quantitation Limit		pCi/g				0.10			0.20										15								

Table B3-1. Radiochemical Analysis Results for 216-A-36B Crib (C3248) Samples

			Thorium-230			Thorium-232			Thorium-234			Tin-113			Tin-126			Total beta radiostrontium			Tritium			Uranium-233/234[c]			
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual
12.5 bgs	B173T6	pCi/g	0.935	B	0.33	0.425		0.33										0.052	U	0.32	0.022	U	0.28				
12.5 bgs	B173T7	pCi/g							1.04	U	1.5	0.004	U	0.03	0.157	U	0.2							0.15		0.0051	
24 bgs	B17486	pCi/g							0.057	U	0.95	-0.011	U	0.02	0.042	U	0.05							0.13		0.0048	
25 bgs	B17487	pCi/g				4.84[d]												2E+05						81.2[d]			
25 bgs	B17D43	pCi/g																									
27.5 bgs	B17D44	pCi/g	10.6	U	12	0.377	U	2.9								U	25	92100		88				35		3.6	
30 bgs	B17D45	pCi/g	11.4		11	0.76	U	1.9								U	27	86700		87				41.2		3.8	
40 bgs	B173V2	pCi/g							-10.1	U	87	0.116	U	1	-0.731	U	4.8							16		3.8	J
40 bgs	B173V9	pCi/g	1.65	U	2.9	0.889		0.49								U	2.2	27600		14	3.61		0.92	3.31		2.3	
53.5 bgs	B173V3	pCi/g							0.624	U	4.2	-0.031	U	0.1	-0.074	U	0.2							1.4		0.013	J
53.5 bgs	B173W0	pCi/g	0.418		0.25	0.418		0.25								U	0.2	102		0.38	10		0.24	3.87		0.2	
89.5 bgs	B173V5	pCi/g							0.871	U	1	0	U	0.03	0.171	U	0.2							0.3		0.014	J
89.5 bgs	B173W2	pCi/g	0.362		0.25	0.953		0.25								U	0.3	-0.085	U	0.32	21		0.27	0.846		0.22	
197.5 bgs	B173V6	pCi/g							0.351	U	0.84	-0.005	U	0.02	0.118	U	0.12							0.15		0.012	
197.5 bgs	B173W3	pCi/g	0.685		0.28	0.361		0.28								U	0.08	-0.096	U	0.2	31.8		0.26	0.581		0.19	
292 bgs	B173V8	pCi/g							1.58		1.5	-0.003	U	0.02	0.24	U	0.37							0.21		0.013	
292 bgs	B173W5	pCi/g	0.476		0.26	0.442		0.26								U	0.16	0.049	U	0.3	76.5		0.28	0.537		0.026	
287.5 bgs	B173V7	pCi/g							1.3		1.2	0	U	0.02	0.254	U	0.35							0.26		0.014	
287.5 bgs	B173W4	pCi/g	0.237	U	0.3	0.592		0.3								U	0.21	0.171	U	0.33	121		0.28	0.41		0.026	
318.5 bgs	B173W6	pCi/g	0.589		0.32	0.505		0.32								U	0.53	0.216	U	0.22	21.8		0.26	0.356		0.21	
318.5 bgs	B173W7	pCi/g							0.65	U	0.65	0.002	U	0.01	0.131	U	0.2							0.12		0.011	
dup of B173V3	B173V4	pCi/g							0.774	U	3.9	0.085	U	0.14	0.32	U	0.4							1.4		0.013	J
dup of B173W0	B173W1	pCi/g	0.52		0.25	0.813		0.25								U	0.11	87.4		0.37	12.4		0.25	2.31		0.21	
equip blank tied to B174B4 & B17D45	B171B2	pCi/L							-155	U	220	0.601	U	9.6	-4.86	U	14							0.039	U	0.053	
equip blank tied to B174B4 & B17D45	B171B4	pCi/L	0.023	U	0.18	0	U	0.18										-0.266	U	0.72	92.5	U	190				
Target Quantitation Limit		pCi/g				1.00												1.00			400			1.00			

Table B3-1. Radiochemical Analysis Results for 216-A-36B Crib (C3248) Samples

			Uranium-235				Uranium-236			Uranium-238			Uranium[e]				Zinc-65		
Interval	HEIS	Units	Result	Q	MDA	Val Qual	Result	Q	MDA	Result	Q	MDA	Result	Units	Q	MDA	Result	Q	MDA
12.5 bgs	B173T6	pCi/g																	
12.5 bgs	B173T7	pCi/g	0.018		0.0055					0.17		0.0051	504	ug/kg			0.035	U	0.066
24 bgs	B17486	pCi/g	0.014	U	0.014					0.10		0.0048	500	ug/kg	U		0.05	U	0.061
25 bgs	B17487	pCi/g	3.286[d]				4.54[d]			70.9[d]									
25 bgs	B17D43	pCi/g																	
27.5 bgs	B17D44	pCi/g	2.82		2.70					12.8		3.20	35100	ug/kg		140			
30 bgs	B17D45	pCi/g	1.86	U	2.90					11.1		2.40	36800	ug/kg		140			
40 bgs	B173V2	pCi/g	2.60		1.20	J				4.4		3.00	19200	ug/kg			0.17	U	0.80
40 bgs	B173V9	pCi/g	0	U	2.80					2.71		2.30	6340	ug/kg		36			
53.5 bgs	B173V3	pCi/g	0.05	U	0.05	UJ				0.57		0.013	3110	ug/kg			0.167	U	0.20
53.5 bgs	B173W0	pCi/g	0.096	U	0.25					1.56		0.20	2520	ug/kg		7.00			
89.5 bgs	B173V5	pCi/g	0.033		0.006	J				0.24		0.014	1230	ug/kg			0.01	U	0.06
89.5 bgs	B173W2	pCi/g	0.034	U	0.26					0.705		0.22	505	ug/kg		7.00			
197.5 bgs	B173V6	pCi/g	0.013		0.005					0.14		0.005	995	ug/kg	U		0.044	U	0.052
197.5 bgs	B173W3	pCi/g	0.031	U	0.23					0.429		0.19	395	ug/kg		7.00			
292 bgs	B173V8	pCi/g	0.012	U	0.014					0.21		0.005	988	ug/kg	U		0.017	U	0.041
292 bgs	B173W5	pCi/g	0.02	U	0.027					0.523		0.022	4750	ug/kg		36			
287.5 bgs	B173V7	pCi/g	0.019	U	0.019					0.28		0.014	984	ug/kg	U		0.075	U	0.044
287.5 bgs	B173W4	pCi/g	0.011	U	0.022					0.346		0.018	2160	ug/kg		36			
318.5 bgs	B173W6	pCi/g	0.033	U	0.25					0.411		0.21	430	ug/kg		7.00			
318.5 bgs	B173W7	pCi/g	0.003	U	0.012					0.14		0.004	988	ug/kg	U		0	U	0.024
dup of B173V3	B173V4	pCi/g	0.082		0.014	J				0.67		0.035	4880	ug/kg			-0.55	U	0.22
dup of B173W0	B173W1	pCi/g	0.097	U	0.25					1.02		0.21	1490	ug/kg		7.00			
equip blank tied to B174B4 & B17D45	B171B2	pCi/L	0.024		0.013					0.031	U	0.047	0.125	ug/L	U		-3.79	U	15.0
equip blank tied to B174B4 & B17D45	B171B4	pCi/L											-0.002	ug/L	U	0.018			
Target Quantitation Limit		pCi/g	1.00							1.00			1000						

a. All results except that noted by a 'b' are from gamma

b. RAISO AEA result was used because it was the higher result and is more appropriate.

c. Hanford did not process Thorium fuels, which result in U-233. Thus, all results are considered U-234.

d. Reported as ug/kg by ICP/MS and converted to pCi/g to be consistent with other results by AEA

e. Total Uranium reflected as ug/kg.

AEA = Alpha energy analysis
bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
ICP/MS = Inductively couple plasma/mass spectrometer
J = Estimated
MDA = Minimum detectable activity
Q = Qualifier
RAISO = Radium alpha spectroscopy analysis
U = Undetected
UJ = Undetected, detection limit is estimated
Val Qual = Validation qualifier

Table B3-2. Metal Analysis Results for 216-A-36B Crib (C3248) Samples

			Aluminum		Antimony		Arsenic		Barium		Beryllium		Bismuth			Boron		Cadmium		Chromium	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q
12.5 bgs	B173T6	ug/kg																			
12.5 bgs	B173T7	ug/kg	7600000	E	2360	UE	2600		59900	E	1420	U	4750	U		4846	U	472	U	1420	UE
24 bgs	B17486	ug/kg	8430000	E	2500	UE	1920		60800	E	1500	U	4580	U		4669	U	500	U	72500	E
25 bgs	B17487	ug/kg			4410	U	10700	U	60600		379		10700	U		4460	U	440	U	13100	
27.5 bgs	B17978	ug/kg			850	B	2800		51600		180	B	79700			5100	B	110	B	10600	
30 bgs	B174B4	ug/kg			660	B	3000		56100		210	B	91400			5800	B	38.0	U	7900	
40 bgs	B173V2	ug/kg			4720	UE	4720		55700		2840	U	9320	U	UJ	9510	U			7010	
40 bgs	B17BY9	ug/kg																			
53.5 bgs	B173V3	ug/kg			4810	UE	5790		42800		2890	U	9840	U	UJ	10000	U			8820	
53.5 bgs	B173W0	ug/kg																			
89.5 bgs	B173V5	ug/kg			4680	UE	5920		78000		2810	U	9280	U	UJ	9470	U			8120	
89.5 bgs	B173W2	ug/kg																			
197.5 bgs	B173V6	ug/kg			4980	U	2980	U	50800		2980	U	5060	U		5060	U			19700	
197.5 bgs	B173W3	ug/kg																			
292 bgs	B173V8	ug/kg			4940	UE	6120		89800		2960	U	4970	U		5070	U			23000	
292 bgs	B173W5	ug/kg																			
287.5 bgs	B173V7	ug/kg			4920	UE	5540		75800		2950	U	5070	U		5070	U			18500	
287.5 bgs	B173W4	ug/kg																			
318.5 bgs	B173W6	ug/kg																			
318.5 bgs	B173W7	ug/kg			4940	U	3320		36200		2960	U	4960	U		5060	U			8830	
dup of B173V3	B173V4	ug/kg			4780	UE	6200		52400		2870	U	9650	U	UJ	9840	U			6190	
dup of B173W0	B173W1	ug/kg																			
equip blank tied to B174B4 & B17D45	B171B2	ug/L	13.8	U	0.625	U	0.375	U	0.25	U	0.375	U	100	U		102	U	0.125	U	0.375	U
Target Quantitation Limit		ug/kg			6000		10000		20000		500							500		1000	

Table B3-2. Metal Analysis Results for 216-A-36B Crib (C3248) Samples

			Cobalt		Copper		Hexavalent Chromium		Lead		Manganese		Mercury		Molybdenum		Nickel		Selenium	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B173T6	ug/kg					430	U												
12.5 bgs	B173T7	ug/kg	6130		13800				5660	U	246000	E	472	U	1420	U	4260		1420	U
24 bgs	B17486	ug/kg	6070		12000				6000	U	236000	E	500	U	2220		50900		1500	U
25 bgs	B17487	ug/kg			15800				6190				215				58000		10800	U
27.5 bgs	B17978	ug/kg			8900		56.0	U	4600				89.0				9700		460	B
30 bgs	B174B4	ug/kg			10600		56.0	U	3400				35.0				9800		510	B
40 bgs	B173V2	ug/kg			7100				11300	U			1710	C			9940			
40 bgs	B17BY9	ug/kg					54.0	U												
53.5 bgs	B173V3	ug/kg			8030				11500	U			1590	C			11000			
53.5 bgs	B173W0	ug/kg					420	U												
89.5 bgs	B173V5	ug/kg			9580				11200	U			1310	C			13100			
89.5 bgs	B173W2	ug/kg					410	U												
197.5 bgs	B173V6	ug/kg			9410				11900	U			995	U			13900			
197.5 bgs	B173W3	ug/kg					410	U												
292 bgs	B173V8	ug/kg			18600				11900	U			988	U			18600			
292 bgs	B173W5	ug/kg					453	U												
287.5 bgs	B173V7	ug/kg			14100				11800	U			984	U			18100			
287.5 bgs	B173W4	ug/kg					481	U												
318.5 bgs	B173W6	ug/kg					420	U												
318.5 bgs	B173W7	ug/kg			6300				11900	U			988	U			9580			
dup of B173V3	B173V4	ug/kg			10400				11500	U			1660	C			8160			
dup of B173W0	B173W1	ug/kg					420	U												
equip blank tied to B174B4 & B17D45	B171B2	ug/L	0.25	U	1.95		2.00	U	1.50	U	0.563		0.13	U	0.418		0.68		0.375	U
Target Quantitation Limit		ug/kg			2500		500		10000				200				4000		10000	

Table B3-2. Metal Analysis Results for 216-A-36B Crib (C3248) Samples

			Silver			Thallium		Thorium		Vanadium		Zinc	
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B173T6	ug/kg											
12.5 bgs	B173T7	ug/kg	3120	E		472	U	3770		35100	E	41500	E
24 bgs	B17486	ug/kg	3540	E		815		2850		37700	E	30700	E
25 bgs	B17487	ug/kg	1140	U									
27.5 bgs	B17978	ug/kg	140	B									
30 bgs	B174B4	ug/kg	110	B									
40 bgs	B173V2	ug/kg	1890	UE	UJ								
40 bgs	B17BY9	ug/kg											
53.5 bgs	B173V3	ug/kg	1920	UE	UJ								
53.5 bgs	B173W0	ug/kg											
89.5 bgs	B173V5	ug/kg	1870	UE	UJ								
89.5 bgs	B173W2	ug/kg											
197.5 bgs	B173V6	ug/kg	1990	U									
197.5 bgs	B173W3	ug/kg											
292 bgs	B173V8	ug/kg	2590										
292 bgs	B173W5	ug/kg											
287.5 bgs	B173V7	ug/kg	1970	U									
287.5 bgs	B173W4	ug/kg											
318.5 bgs	B173W6	ug/kg											
318.5 bgs	B173W7	ug/kg	1980	U									
dup of B173V3	B173V4	ug/kg	1910	UE	UJ								
dup of B173W0	B173W1	ug/kg											
equip blank tied to B174B4 & B17D45	B171B2	ug/L	0.28			0.324		0.377		0.50	U	5.00	U
Target Quantitation Limit		ug/kg											

B = Analyte found in associated method blank

bgs = Below ground surface

C = Identification of the pesticide confirmed by gas chromatograph/mass spectrometer

dup = Duplicate

E = Estimated

HEIS = Hanford Environmental Information System

Q = Qualifier

U = Undetected

UJ = Undetected, detection limit is estimated

Table B3-3. General Inorganic Analysis Results for 216-A-36B Crib (C3248) Samples

			Ammonia as N		Bromide		Chloride		Cyanide		Fluoride		Nitrate as N		Nitrite as N		Nitrogen in Nitrite and Nitrate		Percent moisture (dry sample)	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B173T6																2700			
12.5 bgs	B173T7	ug/kg	40	UD	450	U	239		190	U	393		497		90.0	U				
24 bgs	B17486	ug/kg	1550		450	U	333		200	U	341		1320		90.0	U				
25 bgs	B17487	ug/kg	21900	U			2970		435	U	1190	U	29700		18800					
27.5 bgs	B17978	ug/kg	220	U			2900	B	240	U	400	U	11200		243	U	8900			
30 bgs	B174B4	ug/kg	220	U			22400	U	240	U	400	U	9100		74.0	U	10100			
40 bgs	B173V2	ug/kg	2800	B			6780	B	200	U	1340	U	121000		1720	U				
40 bgs	B17BY9																24300			
53.5 bgs	B173V3	ug/kg	58200	B			2730	U	200	U	1360	U	289000		1760	U				
53.5 bgs	B173W0																256000	D		
89.5 bgs	B173V5	ug/kg	1340	B			8580	B	200	U	1380	U	73100		1770	U				
89.5 bgs	B173W2																83500	D		
89.5 bgs	B174B1	%																	2.90	
197.5 bgs	B173V6	ug/kg	200	U			2060		200	U	975		15200		450	U				
197.5 bgs	B173W3	ug/kg															13400	D		
292 bgs	B173V8	ug/kg	200	U			4590	B	200	U	908	B	48200	E	450	U				
292 bgs	B173W5	ug/kg															54500			
287.5 bgs	B173V7	ug/kg	393	B			1210	B	200	U	343	U	45200		441	U				
287.5 bgs	B173W4	ug/kg															54600			
287.5 bgs	B174B2	%																	14.7	
318.5 bgs	B173W6	ug/kg															14500	D		
318.5 bgs	B173W7	ug/kg	200	U			1160	B	200	U	350	U	20400	B	450	U				
318.5 bgs	B174B3	%																	3.80	
dup of B173V3	B173V4	ug/kg	40500	B			4670	B	200	U	1360	U	247000		1760	U				
dup of B173W0	B173W1	ug/kg															287000	D		
equip blank tied to B174B4 & B17D45	B171B2	ug/L			45.0	U	14.0	U	4.00	U	7.00	U	5.00	U	9.00	U				
equip blank tied to B174B4 & B17D45	B171B4	ug/L	100	U													20.0	U		
Target Quantitation Limit		ug/kg	500				2000		500		5000		2500		2500					

Table B3-3. General Inorganic Analysis Results for 216-A-36B Crib (C3248) Samples

			Percent moisture (wet sample)		Percent Solids		pH Measurement			Phosphate		Sulfate	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Units	Q	Result	Q	Result	Q
12.5 bgs	B173T6												
12.5 bgs	B173T7	ug/kg					9.24	pH		130	U	918	
24 bgs	B17486	ug/kg					9.01	pH		130	U	2840	
25 bgs	B17487	ug/kg					7.56	pH				14800	
27.5 bgs	B17978	ug/kg					8.80	pH				17900	B
30 bgs	B174B4	ug/kg					8.70	pH				16300	B
40 bgs	B173V2	ug/kg					8.91	pH		2480	U	8980	B
40 bgs	B17BY9												
53.5 bgs	B173V3	ug/kg					8.04	pH		2540	U	8680	B
53.5 bgs	B173W0												
89.5 bgs	B173V5	ug/kg					8.21	pH		2560	U	4730	U
89.5 bgs	B173W2												
89.5 bgs	B174B1	%	3.00		97.1								
197.5 bgs	B173V6	ug/kg					9.19	pH		650	U	7470	
197.5 bgs	B173W3	ug/kg											
292 bgs	B173V8	ug/kg					8.26	pH		650	U	44600	
292 bgs	B173W5	ug/kg											
287.5 bgs	B173V7	ug/kg					8.90	pH		637	U	23500	B
287.5 bgs	B173W4	ug/kg											
287.5 bgs	B174B2	%	17.2		85.3								
318.5 bgs	B173W6	ug/kg											
318.5 bgs	B173W7	ug/kg					8.71	pH		650	U	29600	B
318.5 bgs	B174B3	%	3.90		96.2								
dup of B173V3	B173V4	ug/kg					7.99	pH		2540	U	4680	U
dup of B173W0	B173W1	ug/kg											
equip blank tied to B174B4 & B17D45	B171B2	ug/L								13.0	U	24.0	U
equip blank tied to B174B4 & B17D45	B171B4	ug/L											
Target Quantitation Limit		ug/kg								5000		5000	

B = Analyte found in associated method blank
bgs = Below ground surface
D = Sample reanalyzed at higher dilution factor
dup = Duplicate
HEIS = Hanford Environmental Information System
Q = Qualifier
U = Undetected

Table B3-4. Volatile Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			1 1 1-Trichloro ethane		1 1 2 2-Tetrachloro ethane		1 1 2-Trichloro ethane		1 1-Dichloro ethane		1 1-Dichloro ethene		1 2-Dichloro benzene		1 2-Dichloro ethane		1 2-Dichloro ethene(Total)	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B173T7	ug/kg	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U			2.00	U	2.00	U
24 bgs	B17486	ug/kg	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U			2.00	U	2.00	U
25 bgs	B17487	ug/kg	1.40	U	1.20	U	1.30	U	1.60	U	1.50	U	1.30	U	1.50	U	2.70	U
equip blank tied to B174B4 & B17D45	B171B2	ug/L	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U			1.00	U	1.00	U
Target Quantitation Limit		ug/kg	5.00						10.0				5.00		10.0			

Table B3-4. Volatile Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			1 2-Dichloro propane		1 3-Dichloro benzene		1-Butanol		2-Butanone		2-Hexa none		2-Penta none		4-Methyl-2-Pentanone		Acetone		Benzene	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B173T7	ug/kg	2.00	U					2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U
24 bgs	B17486	ug/kg	2.00	U					2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U
25 bgs	B17487	ug/kg	1.30	U	1.70	U	45.0	U	1.60	U	1.30	U	4.00	U	1.50	U	1.80	U	1.30	U
equip blank tied to B174B4 & B17D45	B171B2	ug/L	1.00	U			20.0	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U
Target Quantitation Limit		ug/kg					5000		10.0						10.0		20.0		5.00	

Table B3-4. Volatile Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			Bromodichloro methane		Bromo form		Bromo methane		Carbon disulfide		Carbon tetra chloride		Chloro benzene		Chloro ethane		Chloro form		Chloro methane		cis-1 3-Dichloro propene	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B173T7	ug/kg	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U
24 bgs	B17486	ug/kg	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U
25 bgs	B17487	ug/kg	1.50	U	1.50	U	3.70	U	1.80	U	2.50	U	1.50	U	3.60	U	1.40	U	3.20	U	1.30	U
equip blank tied to B174B4 & B17D45	B171B2	ug/L	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U
Target Quantitation Limit		ug/kg									5.00		5.00				5.00					

Table B3-4. Volatile Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			Dibromochloro methane		Dibromo methane		Ethyl benzene		Methylenec hloride		n-Butyl benzene		Styrene		Tetrachloro ethene		Tetra hydrofuran		Toluene	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B173T7	ug/kg	2.00	U			2.00	U	2.00	U	2.00	U	2.00	U	2.00	U			2.00	U
24 bgs	B17486	ug/kg	2.00	U			2.00	U	2.00	U	2.00	U	2.00	U	2.00	U			2.00	U
25 bgs	B17487	ug/kg	1.30	U	1.30	U	1.90	U	2.50	U			1.50	U	1.40	U	4.00	U	1.30	U
equip blank tied to B174B4 & B17D45	B171B2	ug/L	1.00	U			1.00	U	1.00	U	1.00	U	1.00	U	1.00	U			1.00	U
Target Quantitation Limit		ug/kg					5.00		5.00		5.00				5.00				5.00	

Table B3-4. Volatile Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			trans-1 3-Dichloro propene		Trichloro ethene		Vinyl chloride		Xylenes (total)	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B173T7	ug/kg	2.00	U	2.00	U	2.00	U	2.00	U
24 bgs	B17486	ug/kg	2.00	U	2.00	U	2.00	U	2.00	U
25 bgs	B17487	ug/kg	1.40	U	1.70	U	3.00	U	3.20	U
equip blank tied to B174B4 & B17D45	B171B2	ug/L	1.00	U	1.00	U	1.00	U	1.00	U
Target Quantitation Limit		ug/kg			5.00				5.00	

bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
Q = Qualifier
U = Undetected

Table B3-5. Semi-Volatile Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			1 2 4-Trichloro benzene		1 2 4-Trithio lane		1 2-Dichloro benzene		1 3-Dichloro benzene		1 4-Dichloro benzene		1-Chloro propane		2 4 5-Trichloro phenol		2 4 6-Trichloro phenol	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B173T7	ug/kg	310	U			380	U	340	U	330	U			77.0	U	70.0	U
24 bgs	B17486	ug/kg	300	U			370	U	330	U	320	U			75.0	U	69.0	U
25 bgs	B17487	ug/kg	350	U							350	U			350	U	350	U
27.5 bgs	B17978	ug/kg	18.0	U			13.0	U	12.0	U	14.0	U	340	U	31.0	U	33.0	U
30 bgs	B174B4	ug/kg	18.0	U			12.0	U	12.0	U	14.0	U	340000	U	31.0	U	32.0	U
40 bgs	B17BY9	ug/kg	17.0	U			12.0	U	12.0	U	14.0	U	330	U	30.0	U	31.0	U
53.5 bgs	B173V3	ug/kg	300	U	130	J	370	U	330	U	320	U			76.0	U	69.0	U
89.5 bgs	B173V5	ug/kg	300	U			370	U	330	U	320	U			75.0	U	68.0	U
197.5 bgs	B173V6	ug/kg	300	U			370	U	330	U	320	U			76.0	U	69.0	U
292 bgs	B173V8	ug/kg	330	U			410	U	360	U	360	U			83.0	U	76.0	U
287.5 bgs	B173V7	ug/kg	310	U			380	U	340	U	330	U			78.0	U	71.0	U
318.5 bgs	B173W7	ug/kg	310	U			380	U	330	U	330	U			77.0	U	70.0	U
dup of B173V3	B173V4	ug/kg	300	U			370	U	330	U	320	U			76.0	U	69.0	U
equip blank tied to B174B4 & B17D45	B171B2	ug/L	3.50	U			4.90	U	6.00	U	5.80	U			2.20	U	2.80	U

Table B3-5. Semi-Volatile Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			2 4-Dichloro phenol		2 4-Dimethyl phenol		2 4-Dinitro phenol		2 4-Dinitro toluene		2 6-Dinitro toluene		2-Butoxy ethanol		2-Chloronaph thalene		2-Chloro phenol		2-Methylnaph thalene	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B173T7	ug/kg	84.0	U	70.0	U	700	U	70.0	U	70.0	U	100	U	70.0	U	150	U	190	U
24 bgs	B17486	ug/kg	82.0	U	69.0	U	690	U	69.0	U	69.0	U	100	U	69.0	U	150	U	190	U
25 bgs	B17487	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
27.5 bgs	B17978	ug/kg	27.0	U	29.0	U	67.0	U	18.0	U	21.0	U			16.0	U	14.0	U	15.0	U
30 bgs	B174B4	ug/kg	26.0	U	29.0	U	66.0	U	18.0	U	21.0	U			16.0	U	14.0	U	15.0	U
40 bgs	B17BY9	ug/kg	26.0	U	28.0	U	64.0	U	18.0	U	20.0	U			16.0	U	14.0	U	15.0	U
53.5 bgs	B173V3	ug/kg	83.0	U	69.0	U	690	U	69.0	U	69.0	U	100	U	69.0	U	150	U	190	U
89.5 bgs	B173V5	ug/kg	82.0	U	68.0	U	680	U	68.0	U	68.0	U	100	U	68.0	U	150	U	180	U
197.5 bgs	B173V6	ug/kg	83.0	U	69.0	U	690	U	69.0	U	69.0	U	100	U	69.0	U	150	U	190	U
292 bgs	B173V8	ug/kg	91.0	U	76.0	U	760	U	76.0	U	76.0	U	110	U	76.0	U	170	U	200	U
287.5 bgs	B173V7	ug/kg	85.0	U	71.0	U	710	U	71.0	U	71.0	U	110	U	71.0	U	160	U	190	U
318.5 bgs	B173W7	ug/kg	83.0	U	70.0	U	700	U	70.0	U	70.0	U	100	U	70.0	U	150	U	190	U
dup of B173V3	B173V4	ug/kg	83.0	U	69.0	U	690	U	69.0	U	69.0	U	100	U	69.0	U	150	U	190	U
equip blank tied to B174B4 & B17D45	B171B2	ug/L	1.60	U	5.00	U	3.80	U	2.10	U	2.60	U	3.60	U	2.70	U	2.00	U	2.20	U

Table B3-5. Semi-Volatile Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			2-Methylphenol (cresol o-)		2-Nitro aniline		2-Nitro phenol		2-Pentanone 4-hydroxy-		3 3'-Dichloro benzidine		3+4 Methylphenol (cresol m+p)		3-methyl 2-cyclohexen-1-one	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B173T7	ug/kg	70.0	U	70.0	U	180	U			84.0	U	120	U		
24 bgs	B17486	ug/kg	69.0	U	69.0	U	180	U			82.0	U	120	U		
25 bgs	B17487	ug/kg	350	U	350	U	350	U					350	U		
27.5 bgs	B17978	ug/kg	20.0	U	39.0	U	20.0	U			24.0	U				
30 bgs	B174B4	ug/kg	20.0	U	39.0	U	20.0	U			24.0	U				
40 bgs	B17BY9	ug/kg	19.0	U	38.0	U	19.0	U			23.0	U				
53.5 bgs	B173V3	ug/kg	69.0	U	69.0	U	180	U			83.0	U	120	U		
89.5 bgs	B173V5	ug/kg	68.0	U	68.0	U	180	U			82.0	U	120	U		
197.5 bgs	B173V6	ug/kg	69.0	U	69.0	U	180	U			83.0	U	120	U	430	J
292 bgs	B173V8	ug/kg	76.0	U	76.0	U	200	U			91.0	U	130	U		
287.5 bgs	B173V7	ug/kg	71.0	U	71.0	U	190	U	640	J	85.0	U	120	U		
318.5 bgs	B173W7	ug/kg	70.0	U	70.0	U	180	U			83.0	U	120	U		
dup of B173V3	B173V4	ug/kg	69.0	U	69.0	U	180	U			83.0	U	120	U		
equip blank tied to B174B4 & B17D45	B171B2	ug/L	2.70	U	2.40	U	2.30	U			4.80	U	3.70	U		

Table B3-5. Semi-Volatile Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			3-Nitro aniline		4 6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chloro aniline		4-Chlorophenyl phenyl ether		4-Methylphenol (cresol p-)	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B173T7	ug/kg	70.0	U	700	U	70.0	U	70.0	U	98.0	U	70.0	U		
24 bgs	B17486	ug/kg	69.0	U	690	U	69.0	U	69.0	U	96.0	U	69.0	U		
25 bgs	B17487	ug/kg	350	U	350	U	350	U	350	U			350	U		
27.5 bgs	B17978	ug/kg	27.0	U	64.0	U	23.0	U	28.0	U	32.0	U	19.0	U	53.0	U
30 bgs	B174B4	ug/kg	27.0	U	64.0	U	23.0	U	27.0	U	31.0	U	19.0	U	52.0	U
40 bgs	B17BY9	ug/kg	26.0	U	62.0	U	22.0	U	27.0	U	31.0	U	18.0	U	51.0	U
53.5 bgs	B173V3	ug/kg	69.0	U	690	U	69.0	U	69.0	U	97.0	U	69.0	U		
89.5 bgs	B173V5	ug/kg	68.0	U	680	U	68.0	U	68.0	U	96.0	U	68.0	U		
197.5 bgs	B173V6	ug/kg	69.0	U	690	U	69.0	U	69.0	U	97.0	U	69.0	U		
292 bgs	B173V8	ug/kg	76.0	U	760	U	76.0	U	76.0	U	110	U	76.0	U		
287.5 bgs	B173V7	ug/kg	71.0	U	710	U	71.0	U	71.0	U	100	U	71.0	U		
318.5 bgs	B173W7	ug/kg	70.0	U	700	U	70.0	U	70.0	U	97.0	U	70.0	U		
dup of B173V3	B173V4	ug/kg	69.0	U	690	U	69.0	U	69.0	U	97.0	U	69.0	U		
equip blank tied to B174B4 & B17D45	B171B2	ug/L	5.20	U	2.00	U	2.20	U	1.50	U	8.40	U	2.60	U		

Table B3-5. Semi-Volatile Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			4-Nitro aniline		4-Nitro phenol		Acenaph thene		Acenapht hylene		Anthra cene		Benzo(a) anthracene		Benzo(a) pyrene		Benzo(b) fluoranthene		Benzo(ghi) perylene		Benzo(k) fluoranthene	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B173T7	ug/kg	260	U	680	U	70.0	U	84.0	U	70.0	U	70.0	U	70.0	U	70.0	U	70.0	U	70.0	U
24 bgs	B17486	ug/kg	250	U	670	U	69.0	U	82.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U
25 bgs	B17487	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
27.5 bgs	B17978	ug/kg	23.0	U	44.0	U	17.0	U	17.0	U	19.0	U	24.0	U	20.0	U	40.0	U	110	U	20.0	U
30 bgs	B174B4	ug/kg	23.0	U	43.0	U	17.0	U	17.0	U	18.0	U	24.0	U	20.0	U	40.0	U	100	U	20.0	U
40 bgs	B17BY9	ug/kg	22.0	U	42.0	U	16.0	U	16.0	U	18.0	U	23.0	U	19.0	U	38.0	U	100	U	19.0	U
53.5 bgs	B173V3	ug/kg	260	U	670	U	69.0	U	83.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U
89.5 bgs	B173V5	ug/kg	250	U	660	U	68.0	U	82.0	U	68.0	U	68.0	U	68.0	U	68.0	U	68.0	U	68.0	U
197.5 bgs	B173V6	ug/kg	260	U	670	U	69.0	U	83.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U
292 bgs	B173V8	ug/kg	280	U	730	U	76.0	U	91.0	U	76.0	U	76.0	U	76.0	U	76.0	U	76.0	U	76.0	U
287.5 bgs	B173V7	ug/kg	260	U	690	U	71.0	U	85.0	U	71.0	U	71.0	U	71.0	U	71.0	U	71.0	U	71.0	U
318.5 bgs	B173W7	ug/kg	260	U	670	U	70.0	U	83.0	U	70.0	U	70.0	U	70.0	U	70.0	U	70.0	U	70.0	U
dup of B173V3	B173V4	ug/kg	260	U	670	U	69.0	U	83.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U
equip blank tied to B174B4 & B17D45	B171B2	ug/L	3.40	U	1.60	U	2.80	U	2.70	U	2.30	U	2.40	U	2.20	U	2.00	U	2.90	U	3.30	U

Table B3-5. Semi-Volatile Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			Benzyl alcohol		Bis(2-chloro-1-methylethyl)ether		Bis(2-Chloroethoxy) methane		Bis(2-chloroethyl) ether		Bis(2-ethylhexyl) phthalate		Butylbenzyl phthalate		Carbazole	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B173T7	ug/kg	80.0	U	270	U	120	U	260	U	590	U	70.0	U	84.0	U
24 bgs	B17486	ug/kg	80.0	U	260	U	120	U	250	U	580	U	69.0	U	82.0	U
25 bgs	B17487	ug/kg					350	U	350	U	350	U	350	U		
27.5 bgs	B17978	ug/kg			16.0	U	21.0	U	14.0	U	36.0	U	27.0	U	21.0	U
30 bgs	B174B4	ug/kg			16.0	U	21.0	U	14.0	U	35.0	U	27.0	U	21.0	U
40 bgs	B17BY9	ug/kg			15.0	U	21.0	U	13.0	U	34.0	U	26.0	U	20.0	U
53.5 bgs	B173V3	ug/kg			260	U	120	U	260	U	580	U	69.0	U	83.0	U
89.5 bgs	B173V5	ug/kg			260	U	120	U	250	U	570	U	68.0	U	82.0	U
197.5 bgs	B173V6	ug/kg			260	U	120	U	260	U	580	U	69.0	U	83.0	U
292 bgs	B173V8	ug/kg			290	U	130	U	280	U	630	U	76.0	U	91.0	U
287.5 bgs	B173V7	ug/kg			270	U	120	U	260	U	600	U	71.0	U	85.0	U
318.5 bgs	B173W7	ug/kg			260	U	120	U	260	U	580	U	70.0	U	83.0	U
dup of B173V3	B173V4	ug/kg			260	U	120	U	260	U	580	U	69.0	U	83.0	U
equip blank tied to B174B4 & B17D45	B171B2	ug/L	2.10	U	2.40	U	2.30	U	4.00	U	3.00	U	2.30	U	1.60	U

Table B3-5. Semi-Volatile Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			Chrysene		Dibenz[a h] anthracene	
Interval	HEIS	Units	Result	Q	Result	Q
12.5 bgs	B173T7	ug/kg	70.0	U	70.0	U
24 bgs	B17486	ug/kg	69.0	U	69.0	U
25 bgs	B17487	ug/kg	350	U	350.0	U
27.5 bgs	B17978	ug/kg	15.0	U	84.0	U
30 bgs	B174B4	ug/kg	15.0	U	83.0	U
40 bgs	B17BY9	ug/kg	14.0	U	81.0	U
53.5 bgs	B173V3	ug/kg	69.0	U	69.0	U
89.5 bgs	B173V5	ug/kg	68.0	U	68.0	U
197.5 bgs	B173V6	ug/kg	69.0	U	69.0	U
292 bgs	B173V8	ug/kg	76.0	U	76.0	U
287.5 bgs	B173V7	ug/kg	71.0	U	71.0	U
318.5 bgs	B173W7	ug/kg	70.0	U	70.0	U
dup of B173V3	B173V4	ug/kg	69.0	U	69.0	U
equip blank tied to B174B4 & B17D45	B171B2	ug/L	2.70	U	3.00	U

Table B3-5. Semi-Volatile Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			Dibenzo furan		Diethyl phthalate		Dimethyl phthalate		Di-n-butylph thalate		Di-n-octylph thalate		Fluor anthene		Fluorene		Hexachloro benzene		Hexachloro butadiene	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B173T7	ug/kg	70.0	U	280	J	70.0	U	91.0	U	70.0	U	70.0	U	70.0	U	70.0	U	380	U
24 bgs	B17486	ug/kg	69.0	U	360	J	69.0	U	89.0	U	69.0	U	69.0	U	69.0	U	69.0	U	380	U
25 bgs	B17487	ug/kg	350	U	350	U	350	U	550		350	U	350	U	350	U	350	U	350	U
27.5 bgs	B17978	ug/kg	23.0	U	43.0	U	20.0	U	29.0	U	150	U	24.0	U	20.0	U	18.0	U	13.0	U
30 bgs	B174B4	ug/kg	23.0	U	42.0	U	20.0	U	29.0	U	150	U	24.0	U	19.0	U	18.0	U	13.0	U
40 bgs	B17BY9	ug/kg	22.0	U	41.0	U	20.0	U	28.0	U	140	U	23.0	U	19.0	U	18.0	U	12.0	U
53.5 bgs	B173V3	ug/kg	69.0	U	190	U	69.0	U	90.0	U	69.0	U	69.0	U	69.0	U	69.0	U	380	U
89.5 bgs	B173V5	ug/kg	68.0	U	190	U	68.0	U	89.0	U	68.0	U	68.0	U	68.0	U	68.0	U	380	U
197.5 bgs	B173V6	ug/kg	69.0	U	190	U	69.0	U	90.0	U	69.0	U	69.0	U	69.0	U	69.0	U	380	U
292 bgs	B173V8	ug/kg	76.0	U	290	J	76.0	U	98.0	U	76.0	U	76.0	U	76.0	U	76.0	U	420	U
287.5 bgs	B173V7	ug/kg	71.0	U	650	J	71.0	U	93.0	U	71.0	U	71.0	U	71.0	U	71.0	U	390	U
318.5 bgs	B173W7	ug/kg	70.0	U	360	J	70.0	U	90.0	U	70.0	U	70.0	U	70.0	U	70.0	U	380	U
dup of B173V3	B173V4	ug/kg	69.0	U	190	U	69.0	U	90.0	U	69.0	U	69.0	U	69.0	U	69.0	U	380	U
equip blank tied to B174B4 & B17D45	B171B2	ug/L	2.20	U	7.30	U	2.40	U	2.40	U	2.90	U	2.40	U	2.30	U	2.40	U	4.20	U
Target Quantitation Limit		ug/kg																		

Table B3-5. Semi-Volatile Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			Hexachloro cyclopentadiene		Hexachloro ethane		Indeno(1 2 3-cd) pyrene		Iso phorone		Mesityl oxide		Naph thalene		n-Butyl benzene sulfonamide		Nitro benzene	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B173T7	ug/kg	330	U	490	U	70.0	U	70.0	U			300	U	1200	BJ	270	U
24 bgs	B17486	ug/kg	320	U	480	U	69.0	U	69.0	U			290	U	560	BJ	270	U
25 bgs	B17487	ug/kg	350	U	350	U	350	U	350	U			350	U			350	U
27.5 bgs	B17978	ug/kg	74.0	U	17.0	U	18.0	U	19.0	U			15.0	U			19.0	U
30 bgs	B174B4	ug/kg	73.0	U	17.0	U	18.0	U	19.0	U			15.0	U			19.0	U
40 bgs	B17BY9	ug/kg	71.0	U	16.0	U	17.0	U	18.0	U			15.0	U			18.0	U
53.5 bgs	B173V3	ug/kg	320	U	480	U	69.0	U	69.0	U			300	U			270	U
89.5 bgs	B173V5	ug/kg	320	U	480	U	68.0	U	68.0	U			290	U			270	U
197.5 bgs	B173V6	ug/kg	320	U	480	U	69.0	U	500	J			300	U	460	J	270	U
292 bgs	B173V8	ug/kg	360	U	530	U	76.0	U	76.0	U			320	U			290	U
287.5 bgs	B173V7	ug/kg	330	U	500	U	71.0	U	180	J	2300	J	310	U	1100	J	280	U
318.5 bgs	B173W7	ug/kg	330	U	490	U	70.0	U	70.0	U			300	U			270	U
dup of B173V3	B173V4	ug/kg	320	U	480	U	69.0	U	69.0	U			300	U			270	U
equip blank tied to B174B4 & B17D45	B171B2	ug/L	9.10	U	6.40	U	3.00	U	2.20	U			2.80	U			2.30	U
Target Quantitation Limit		ug/kg																

Table B3-5. Semi-Volatile Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			N-Nitrosodi-n-dipropylamine		N-Nitrosodiphenylamine		Pentachlorophenol		Phenanthrene		Phenol		Pyrene		Pyridine		Tributyl phosphate	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B173T7	ug/kg	70.0	U	70.0	U	310	U	70.0	U	100	U	70.0	U			70.0	U
24 bgs	B17486	ug/kg	69.0	U	69.0	U	310	U	69.0	U	100	U	69.0	U			69.0	U
25 bgs	B17487	ug/kg	350	U			350	U	350	U	350	U	350	U	350	U	350	U
27.5 bgs	B17978	ug/kg	20.0	U	22.0	U	120	U	17.0	U	91.0	U	23.0	U			340	U
30 bgs	B174B4	ug/kg	20.0	U	21.0	U	120	U	17.0	U	90.0	U	23.0	U			340	U
40 bgs	B17BY9	ug/kg	20.0	U	21.0	U	120	U	16.0	U	87.0	U	22.0	U			330	U
53.5 bgs	B173V3	ug/kg	69.0	U	69.0	U	310	U	69.0	U	100	U	69.0	U			69.0	U
89.5 bgs	B173V5	ug/kg	68.0	U	68.0	U	310	U	68.0	U	100	U	68.0	U			68.0	U
197.5 bgs	B173V6	ug/kg	69.0	U	69.0	U	310	U	69.0	U	100	U	69.0	U			69.0	U
292 bgs	B173V8	ug/kg	76.0	U	76.0	U	340	U	76.0	U	110	U	76.0	U			76.0	U
287.5 bgs	B173V7	ug/kg	71.0	U	71.0	U	320	U	71.0	U	110	U	71.0	U			71.0	U
318.5 bgs	B173W7	ug/kg	70.0	U	70.0	U	310	U	70.0	U	100	U	70.0	U			70.0	U
dup of B173V3	B173V4	ug/kg	69.0	U	69.0	U	310	U	69.0	U	100	U	69.0	U			69.0	U
equip blank tied to B174B4 & B17D45	B171B2	ug/L	2.00	U	2.70	U	2.00	U	2.60	U	2.00	U	2.40	U			2.90	U
Target Quantitation Limit		ug/kg									330						3300	

B = Analyte found in associated method blank
bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
J = Estimated
Q = Qualifier
U = Undetected

Table B3-6. Miscellaneous Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			Endo sulfan I		Endrin		Hepta chlor		1-Butanol		2 4 5-Trichloro phenoxyacetic acid		2 4-Dichloro phenoxyacetic acid		2-(2 4 5-Trichloro phenoxy) propionic acid	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
0.5 bgs	B173T4	ug/kg	1.70	U	3.40	U	1.70	U			17.0	U	34.0	U	17.0	U
12.5 bgs	B173T6	ug/kg														
12.5 bgs	B173T7	ug/kg														
24 bgs	B17486	ug/kg														
25 bgs	B17487	ug/kg														
27.5 bgs	B17978	ug/kg							4900	U						
30 bgs	B174B4	ug/kg							4900	U						
40 bgs	B173V2	ug/kg														
40 bgs	B17BY9	ug/kg														
53.5 bgs	B173V3	ug/kg														
53.5 bgs	B173W0	ug/kg														
89.5 bgs	B173V5	ug/kg														
89.5 bgs	B173W2	ug/kg														
197.5 bgs	B173V6	ug/kg														
197.5 bgs	B173W3	ug/kg														
292 bgs	B173V8	ug/kg														
292 bgs	B173W5	ug/kg														
287.5 bgs	B173V7	ug/kg														
287.5 bgs	B173W4	ug/kg														
318.5 bgs	B173W6	ug/kg														
318.5 bgs	B173W7	ug/kg														
dup of B173V3	B173V4	ug/kg														
dup of B173W0	B173W1	ug/kg														
equip blank tied to B174B4 & B17D45	B171B2	ug/L														
Target Quantitation Limit		ug/kg														

Table B3-6. Miscellaneous Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			2-secButyl-4 6 dinitrophenol(DNBP)		4-(2 4-Dichloro phenoxy) butanoic acid		Aldrin		Alpha-BHC		alpha-Chlordane		Aroclor-1016		Aroclor-1221		Aroclor-1232		Aroclor-1242		Aroclor-1248	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
0.5 bgs	B173T4	ug/kg	17.0	U	170	U	1.70	U	1.70	U	1.70	U										
12.5 bgs	B173T6	ug/kg																				
12.5 bgs	B173T7	ug/kg											52.0	U	100	U	52.0	U	52.0	U	52.0	U
24 bgs	B17486	ug/kg											50.0	U	100	U	50.0	U	50.0	U	50.0	U
25 bgs	B17487	ug/kg											16.0	U	5.00	U	89.0	U	16.0	U	5.20	U
27.5 bgs	B17978	ug/kg																				
30 bgs	B174B4	ug/kg																				
40 bgs	B173V2	ug/kg											50.0	U	100	U	50.0	U	50.0	U	50.0	U
40 bgs	B17BY9	ug/kg																				
53.5 bgs	B173V3	ug/kg											51.0	U	100	U	51.0	U	51.0	U	51.0	U
53.5 bgs	B173W0	ug/kg																				
89.5 bgs	B173V5	ug/kg											47.0	U	93	U	47.0	U	47.0	U	47.0	U
89.5 bgs	B173W2	ug/kg																				
197.5 bgs	B173V6	ug/kg											45.0	U	91	U	45.0	U	45.0	U	45.0	U
197.5 bgs	B173W3	ug/kg																				
292 bgs	B173V8	ug/kg											51.0	U	100	U	51.0	U	51.0	U	51.0	U
292 bgs	B173W5	ug/kg																				
287.5 bgs	B173V7	ug/kg											52.0	U	100	U	52.0	U	52.0	U	52.0	U
287.5 bgs	B173W4	ug/kg																				
318.5 bgs	B173W6	ug/kg																				
318.5 bgs	B173W7	ug/kg											50.0	U	100	U	50.0	U	50.0	U	50.0	U
dup of Bl 73V3	B173V4	ug/kg											49.0	U	99	U	49.0	U	49.0	U	49.0	U
dup of B173W0	B173W1	ug/kg																				
equip blank tied to B174B4 & B17D45	B171B2	ug/L																				
Target Quantitation Limit		ug/kg											100		100		100		100		100	

Table B3-6. Miscellaneous Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			Aroclor-1254		Aroclor-1260		Aroclor-1262		Aroclor-1268		beta-1 2 3 4 5 6-Hexachlorocyclohexane		Dalapon		Delta-BHC		Dicamba		Dichlorodiphenyl dichloroethane	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
0.5 bgs	B173T4	ug/kg									1.70	U	170	U	1.70	U	68.0	U	3.40	U
12.5 bgs	B173T6	ug/kg																		
12.5 bgs	B173T7	ug/kg	52.0	U	52.0	U	52.0	U	52.0	U										
24 bgs	B17486	ug/kg	50.0	U	50.0	U	50.0	U	50.0	U										
25 bgs	B17487	ug/kg	13.0		22.0	U														
27.5 bgs	B17978	ug/kg																		
30 bgs	B174B4	ug/kg																		
40 bgs	B173V2	ug/kg	50.0	U	50.0	U	50.0	U	50.0	U										
40 bgs	B17BY9	ug/kg																		
53.5 bgs	B173V3	ug/kg	51.0	U	51.0	U	51.0	U	51.0	U										
53.5 bgs	B173W0	ug/kg																		
89.5 bgs	B173V5	ug/kg	47.0	U	47.0	U	47.0	U	47.0	U										
89.5 bgs	B173W2	ug/kg																		
197.5 bgs	B173V6	ug/kg	45.0	U	45.0	U	45.0	U	45.0	U										
197.5 bgs	B173W3	ug/kg																		
292 bgs	B173V8	ug/kg	51.0	U	51.0	U	51.0	U	51.0	U										
292 bgs	B173W5	ug/kg																		
287.5 bgs	B173V7	ug/kg	52.0	U	52.0	U	52.0	U	52.0	U										
287.5 bgs	B173W4	ug/kg																		
318.5 bgs	B173W6	ug/kg																		
318.5 bgs	B173W7	ug/kg	50.0	U	50.0	U	50.0	U	50.0	U										
dup of B173V3	B173V4	ug/kg	49.0	U	49.0	U	49.0	U	49.0	U										
dup of B173W0	B173W1	ug/kg																		
equip blank tied to B174B4 & B17D45	B171B2	ug/L																		
Target Quantitation Limit		ug/kg	100		100		100		100											

Table B3-6. Miscellaneous Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			Dichlorodiphenyl dichloroethylene		Dichlorodiphenyl trichloroethane		Dichloro prop		Dieldrin		Diethyl ether			Endo sulfan II		Endosulfan sulfate		Endrin aldehyde	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q
0.5 bgs	B173T4	ug/kg	3.40	U	3.40	U	170	U	3.40	U				3.40	U	3.40	U	3.40	U
12.5 bgs	B173T6	ug/kg																	
12.5 bgs	B173T7	ug/kg									5000	U							
24 bgs	B17486	ug/kg									5000	U							
25 bgs	B17487	ug/kg																	
27.5 bgs	B17978	ug/kg																	
30 bgs	B174B4	ug/kg																	
40 bgs	B173V2	ug/kg																	
40 bgs	B17BY9	ug/kg																	
53.5 bgs	B173V3	ug/kg									5000	U	UJ						
53.5 bgs	B173W0	ug/kg																	
89.5 bgs	B173V5	ug/kg									5000	U	UJ						
89.5 bgs	B173W2	ug/kg																	
197.5 bgs	B173V6	ug/kg									5000	U							
197.5 bgs	B173W3	ug/kg																	
292 bgs	B173V8	ug/kg									5000	U							
292 bgs	B173W5	ug/kg																	
287.5 bgs	B173V7	ug/kg									5000	U							
287.5 bgs	B173W4	ug/kg																	
318.5 bgs	B173W6	ug/kg																	
318.5 bgs	B173W7	ug/kg									5000	U							
dup of B173V3	B173V4	ug/kg									5000	U	UJ						
dup of B173W0	B173W1	ug/kg																	
equip blank tied to B174B4 & B17D45	B171B2	ug/L									5000	U							
Target Quantitation Limit		ug/kg																	

Table B3-6. Miscellaneous Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			Endrin ketone		Ethylene glycol			Gamma-BHC (Lindane)		gamma-Chlordane		Heptachlor epoxide		Methanol			Methoxy chlor	
Interval	HEIS	Units	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual	Result	Q
0.5 bgs	B173T4	ug/kg	3.40	U				1.70	U	1.70	U	1.70	U				17.0	U
12.5 bgs	B173T6	ug/kg																
12.5 bgs	B173T7	ug/kg			5000	U								1000	U			
24 bgs	B17486	ug/kg			5000	U								1000	U			
25 bgs	B17487	ug/kg																
27.5 bgs	B17978	ug/kg			50000	U								7100	U			
30 bgs	B174B4	ug/kg			50000	U								7100	U			
40 bgs	B173V2	ug/kg																
40 bgs	B17BY9	ug/kg																
53.5 bgs	B173V3	ug/kg			5000	U	UJ							1000	U	UJ		
53.5 bgs	B173W0	ug/kg																
89.5 bgs	B173V5	ug/kg			5000	U	UJ							1000	U	UJ		
89.5 bgs	B173W2	ug/kg																
197.5 bgs	B173V6	ug/kg			5000	U								1000	U			
197.5 bgs	B173W3	ug/kg																
292 bgs	B173V8	ug/kg			5000	U								1000	U			
292 bgs	B173W5	ug/kg																
287.5 bgs	B173V7	ug/kg			5000	U								1000	U			
287.5 bgs	B173W4	ug/kg																
318.5 bgs	B173W6	ug/kg																
318.5 bgs	B173W7	ug/kg			5000	U								1000	U			
dup of B173V3	B173V4	ug/kg			5000	U	UJ							1000	U	UJ		
dup of B173W0	B173W1	ug/kg																
equip blank tied to B174B4 & B17D45	B171B2	ug/L			5000	U								1000	U			
Target Quantitation Limit		ug/kg			5000													

Table B3-6. Miscellaneous Organic Analysis Results for 216-A-36B Crib (C3248) Samples

			Oil and grease			TPH - diesel range		TPH - gasoline range			TPH - kerosene range		Toxaphene	
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q
0.5 bgs	B173T4	ug/kg											170	U
12.5 bgs	B173T6	ug/kg	719000	U										
12.5 bgs	B173T7	ug/kg				3900	U	100	U		3900	U		
24 bgs	B17486	ug/kg				3900	U	100	U		3900	U		
25 bgs	B17487	ug/kg												
27.5 bgs	B17978	ug/kg	90000	B		1900	U	100	U		25000	U		
30 bgs	B174B4	ug/kg	200000	U		1900	U	100	U		25000	U		
40 bgs	B173V2	ug/kg												
40 bgs	B17BY9	ug/kg	200000	U		1900	U	100	U		25000	U		
53.5 bgs	B173V3	ug/kg				3900	U	250	U	UJ	3900	U		
53.5 bgs	B173W0	ug/kg	692000	U	UJ									
89.5 bgs	B173V5	ug/kg				3800	U	100	U	UJ	3800	U		
89.5 bgs	B173W2	ug/kg	685000	U	UJ									
197.5 bgs	B173V6	ug/kg				3900	U	250	U		3900	U		
197.5 bgs	B173W3	ug/kg	690000	U										
292 bgs	B173V8	ug/kg				5100	U	250	U		5100	U		
292 bgs	B173W5	ug/kg	755000	U										
287.5 bgs	B173V7	ug/kg				4700	U	250	U		4700	U		
287.5 bgs	B173W4	ug/kg	802000	U										
318.5 bgs	B173W6	ug/kg	691000	U										
318.5 bgs	B173W7	ug/kg				3900	U	250	U		3900	U		
dup of B173V3	B173V4	ug/kg				3900	U	250	U	UJ	3900	U		
dup of B173W0	B173W1	ug/kg	691000	U	UJ									
equip blank tied to B174B4 & B17D45	B171B2	ug/L				150	U	250	U		150	U		
Target Quantitation Limit		ug/kg	200000			5000		5000			5000			

B = Analyte found in associated method blank
bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
Q = Qualifier
U = Undetected
UJ = Undetected, detection limit is estimated

Table B4-1. Radiochemical Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Actinium-228			Americium-241			Antimony-125			Bismuth-212			Bismuth-214				Carbon-14			
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual	Result	Q	MDA	Val Qual
12.5 bgs	B16W93	pCi/g	0.581		0.044	0.029	U	0.052	0.041	U	0.038	0.366		0.098	0.406		0.026					
12.5 bgs	B16W79	pCi/g																	1.47	U	3.00	
17.5 bgs	B16W80	pCi/g																	0.302	U	2.60	
17.5 bgs	B16W94	pCi/g	0.556		0.038	0.038	U	0.041	-0.004	U	0.028	0.467		0.084	0.453		0.021					
27.5 bgs	B16W81	pCi/g																	-0.315	U	3.00	
27.5 bgs	B16W96	pCi/g	0.153		0.01	-0.01	U	0.05	0.001	U	0.007	0.102		0.023	0.106		0.005					
37.5 bgs	B16W82	pCi/g																	-0.093	U	2.80	
37.5 bgs	B16W97	pCi/g	0.546		0.035	0.024	U	0.046	0.011	U	0.028	0.316		0.075	0.508		0.019					
47.5 bgs	B16W83	pCi/g																	-0.493	U	2.90	
47.5 bgs	B16W98	pCi/g	0.514		0.036	0.027	U	0.039	0.009	U	0.03	0.376		0.081	0.362		0.021					
72.5 bgs	B16W84	pCi/g																	-0.04	U	2.90	UJ
72.5 bgs	B16W99	pCi/g	0.558		0.045	0.037	U	0.039	0.003	U	0.033	0.355		0.095	0.411		0.024	J				
97.5 bgs	B16W85	pCi/g																	0.596	U	3.10	
97.5 bgs	B16WB0	pCi/g	0.521		0.032	0.002	U	0.052	0.006	U	0.028	0.275		0.078	0.447		0.019					
147.5 bgs	B16W86	pCi/g																	-0.34	U	2.60	
147.5 bgs	B16WB1	pCi/g	0.574		0.032	0.02		0.017	0.001	U	0.027	0.388		0.073	0.449		0.018					
197.5 bgs	B16W87	pCi/g																	0.42	U	2.90	
197.5 bgs	B16WB2	pCi/g	0.524		0.037	0.017	U	0.041	0	U	0.029	0.298		0.082	0.372		0.021					
237 bgs	B16W88	pCi/g																	0.543	U	2.60	
237 bgs	B16WB3	pCi/g				0.055	U	0.21		U	0.061											
272.5 bgs	B16W89	pCi/g																	-0.904	U	3.20	
272.5 bgs	B16WB4	pCi/g				-0.03	U	0.21		U	0.07											
dup of B16W94	B16W95	pCi/g	0.143		0.011	0.012	U	0.039	0.002	U	0.007	0.104		0.022	0.111		0.005					
equip blank tied to B16W93 & B16W79	B16WB8	pCi/L																	2.07	U	41.0	
equip blank tied to B16W93 & B16W79	B16WC0	pCi/L	28.7	U	36.0	0.21		0.13	4.63	U	26.0	-3.44	U	74.0	54.9		21.0					
Target Quantitation Limit		pCi/g				1.00													50.0			

Table B4-1. Radiochemical Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Cerium-144			Cesium-134			Cesium-137			Cobalt-60			Europium-152			Europium-154			Europium-155		
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
12.5 bgs	B16W93	pCi/g	0.032	U	0.094	0.024	U	0.017	0.113		0.014	0.003	U	0.014	0.002	U	0.037	0.02	U	0.044	0.038	U	0.052
12.5 bgs	B16W79	pCi/g																					
17.5 bgs	B16W80	pCi/g																					
17.5 bgs	B16W94	pCi/g	0.02	U	0.079	0.02	U	0.014	0.018	U	0.012	0.002	U	0.012	-0.003	U	0.031	-0.018	U	0.037	0.022	U	0.045
27.5 bgs	B16W81	pCi/g																					
27.5 bgs	B16W96	pCi/g	0.007	U	0.021	0.009	U	0.004	0.002	U	0.003	0.002	U	0.003	0.001	U	0.008	-0.005	U	0.01	-0.002	U	0.012
37.5 bgs	B16W82	pCi/g																					
37.5 bgs	B16W97	pCi/g	-0.018	U	0.083	0.021	U	0.013	0.002	U	0.01	-0.002	U	0.01	-0.019	U	0.029	-0.012	U	0.032	0.005	U	0.044
47.5 bgs	B16W83	pCi/g																					
47.5 bgs	B16W98	pCi/g	-0.044	U	0.093	0.02	U	0.014	0.004	U	0.011	-0.005	U	0.011	0.005	U	0.034	-0.008	U	0.036	0.006	U	0.049
72.5 bgs	B16W84	pCi/g																					
72.5 bgs	B16W99	pCi/g	0.033	U	0.09	0.032	U	0.016	0.002	U	0.013	0.001	U	0.014	-0.021	U	0.035	-0.024	U	0.042	0.041		0.048
97.5 bgs	B16W85	pCi/g																					
97.5 bgs	B16WB0	pCi/g	0.008	U	0.082	0.021	U	0.013	-0.007	U	0.01	0.001	U	0.01	-0.017	U	0.029	0.008	U	0.033	0.043		0.042
147.5 bgs	B16W86	pCi/g																					
147.5 bgs	B16WB1	pCi/g	0.054	U	0.082	0.027	U	0.013	-0.001	U	0.009	-0.001	U	0.01	-0.011	U	0.029	-0.023	U	0.031	0.036	U	0.044
197.5 bgs	B16W87	pCi/g																					
197.5 bgs	B16WB2	pCi/g	-0.032	U	0.08	0.02	U	0.014	0.007	U	0.012	0.004	U	0.012	-0.004	U	0.031	-0.016	U	0.037	0.031	U	0.043
237 bgs	B16W88	pCi/g																					
237 bgs	B16WB3	pCi/g					U	0.037		U	0.027		U	0.03		U	0.071		U	0.11		U	0.066
272.5 bgs	B16W89	pCi/g																					
272.5 bgs	B16WB4	pCi/g					U	0.043		U	0.029		U	0.033		U	0.08		U	0.12		U	0.13
dup of B16W94	B16W95	pCi/g	-0.005	U	0.016	0.007	U	0.004	0.001	U	0.003	-0.001	U	0.004	-0.005	U	0.007	-0.009	U	0.011	0.012		0.009
equip blank tied to B16W93 & B16W79	B16WB8	pCi/L																					
equip blank tied to B16W93 & B16W79	B16WC0	pCi/L	-13.8	U	61.0	-3.66	U	9.20	0.423	U	9.70	-2.88	U	8.40	4.19	U	27.0	-1.26	U	27.0	9.98	U	32.0
Target Quantitation Limit		pCi/g							0.10			0.05			0.10			0.10			0.10		

Table B4-1. Radiochemical Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Iodine-129			Lead-212			Lead-214				Neptunium-237			Nickel-63				Niobium-94		
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual	Result	Q	MDA	Result	Q	MDA	Val Qual	Result	Q	MDA
12.5 bgs	B16W93	pCi/g				0.592		0.024	0.492		0.027									0.009	U	0.013
12.5 bgs	B16W79	pCi/g	0.221	U	1.80								0.016	U	0.047	1.81	U	2.50				
17.5 bgs	B16W80	pCi/g	-0.047	U	2.10								0	U	0.12	2.64		2.60				
17.5 bgs	B16W94	pCi/g				0.583		0.02	0.492		0.022									0.005	U	0.011
27.5 bgs	B16W81	pCi/g	-0.152	U	1.90								0.072	U	0.11	2.05	U	2.50				
27.5 bgs	B16W96	pCi/g				0.129		0.005	0.102		0.006									0	U	0.003
37.5 bgs	B16W82	pCi/g	0.256	U	2.00								0.032	U	0.095	14.4		2.50				
37.5 bgs	B16W97	pCi/g				0.607		0.02	0.586		0.021									0.003	U	0.01
47.5 bgs	B16W83	pCi/g	-0.13	U	2.30								0	U	0.13	1.34	U	2.50				
47.5 bgs	B16W98	pCi/g				0.525		0.022	0.439		0.023									-0.001	U	0.01
72.5 bgs	B16W84	pCi/g	-0.084	U	1.30								0	U	0.099	-0.227	U	2.50	UJ			
72.5 bgs	B16W99	pCi/g				0.556		0.023	0.417		0.026	J								-0.003	U	0.012
97.5 bgs	B16W85	pCi/g	-0.204	U	1.20								0.077	U	0.12	-1.75	U	2.40				
97.5 bgs	B16WB0	pCi/g				0.507		0.02	0.503		0.021									0	U	0.009
147.5 bgs	B16W86	pCi/g	-0.062	U	1.30								0	U	0.12	-1.29	U	2.40				
147.5 bgs	B16WB1	pCi/g				0.6		0.02	0.488		0.021									0	U	0.009
197.5 bgs	B16W87	pCi/g	-0.355	U	1.70								0	U	0.11	-0.472	U	2.60				
197.5 bgs	B16WB2	pCi/g				0.511		0.021	0.43		0.022									-0.004	U	0.01
237 bgs	B16W88	pCi/g	-0.51	U	1.80								0	U	0.1	-0.101	U	2.40				
237 bgs	B16WB3	pCi/g																				
272.5 bgs	B16W89	pCi/g	0.22	U	2.50								0	U	0.1	0.309	U	2.60				
272.5 bgs	B16WB4	pCi/g																				
dup of B16W94	B16W95	pCi/g				0.128		0.004	0.105		0.005									0	U	0.003
equip blank tied to B16W93 & B16W79	B16WB8	pCi/L											0	U	0.21	-0.242	U	3.60				
equip blank tied to B16W93 & B16W79	B16WC0	pCi/L				-22.8	U	20.0	36.6		19.0									1.58	U	9.20
Target Quantitation Limit		pCi/g	2.00										1.00			30.0						

Table B4-1. Radiochemical Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Plutonium-238			Plutonium-239/240			Potassium-40			Radium-226				Radium-228			Ruthenium-103			Ruthenium-106		
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
12.5 bgs	B16W93	pCi/g	-0.035	U	0.065	-0.002	U	0.021				0.406		0.026		0.581		0.044	-0.002	U	0.012	-0.053	U	0.11
12.5 bgs	B16W79	pCi/g																						
17.5 bgs	B16W80	pCi/g																						
17.5 bgs	B16W94	pCi/g	-0.015	U	0.05	0.004	U	0.02				0.453		0.021		0.556		0.038	0.001	U	0.01	-0.027	U	0.094
27.5 bgs	B16W81	pCi/g																						
27.5 bgs	B16W96	pCi/g	-0.009	U	0.069	0.002	U	0.02				0.106		0.005		0.153		0.01	0	U	0.003	0.008	U	0.026
37.5 bgs	B16W82	pCi/g																						
37.5 bgs	B16W97	pCi/g	-0.002	U	0.015	0.002	U	0.015				0.508		0.019		0.546		0.035	0.002	U	0.01	0.02	U	0.085
47.5 bgs	B16W83	pCi/g																						
47.5 bgs	B16W98	pCi/g	0.01	U	0.023	0.012		0.005				0.362		0.021		0.514		0.036	0	U	0.011	0.015	U	0.097
72.5 bgs	B16W84	pCi/g																						
72.5 bgs	B16W99	pCi/g	0.024	U	0.055	0.004	U	0.022				0.411		0.024	J	0.558		0.045	0	U	0.012	-0.089	U	0.11
97.5 bgs	B16W85	pCi/g																						
97.5 bgs	B16WB0	pCi/g	0.015	U	0.042	0.006		0.005				0.447		0.019		0.521		0.032	0.002	U	0.01	-0.007	U	0.086
147.5 bgs	B16W86	pCi/g																						
147.5 bgs	B16WB1	pCi/g	-0.003	U	0.02	0.002	U	0.004				0.449		0.018		0.574		0.032	-0.001	U	0.009	0.004	U	0.082
197.5 bgs	B16W87	pCi/g																						
197.5 bgs	B16WB2	pCi/g	-0.012	U	0.047	0.003	U	0.016				0.372		0.021		0.524		0.037	0.003	U	0.01	0.021	U	0.097
237 bgs	B16W88	pCi/g																						
237 bgs	B16WB3	pCi/g	-0.03	U	0.29	0	U	0.23	8.04		0.34	0.263		0.057		0.381		0.14						
272.5 bgs	B16W89	pCi/g																						
272.5 bgs	B16WB4	pCi/g	0.037	U	0.29	0	U	0.29	9.15		0.37	0.301		0.064		0.488		0.13						
dup of B16W94	B16W95	pCi/g	-0.004	U	0.033	0.004	U	0.005				0.111		0.005		0.143		0.011	-0.001	U	0.002	-0.009	U	0.024
equip blank tied to B16W93 & B16W79	B16WB8	pCi/L																						
equip blank tied to B16W93 & B16W79	B16WC0	pCi/L	0.014	U	0.13	0.024	U	0.036				54.9		21.0		28.7	U	36.0	3.96	U	12.0	6.05	U	90.0
Target Quantitation Limit		pCi/g	1.00			1.00						0.10				0.20								

Table B4-1. Radiochemical Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Technetium-99				Thallium-208				Thorium-228				Thorium-230				Thorium-232		
Interval	HEIS	Units	Result	Q	MDA	Val Qual	Result	Q	MDA	Val Qual	Result	Q	MDA	Val Qual	Result	Q	MDA	Val Qual	Result	Q	MDA
12.5 bgs	B16W93	pCi/g					0.164		0.013												
12.5 bgs	B16W79	pCi/g	0.166	U	0.55						0.572		0.34		0.143	U	0.27		0.393		0.27
17.5 bgs	B16W80	pCi/g	0.15	U	0.55						0.187	U	0.36		0.075	U	0.29		0.299		0.29
17.5 bgs	B16W94	pCi/g					0.153		0.011												
27.5 bgs	B16W81	pCi/g	0.189	U	0.57						0.348	U	0.37		0.464		0.37		0.541		0.30
27.5 bgs	B16W96	pCi/g					0.045		0.003												
37.5 bgs	B16W82	pCi/g	0.17	U	0.52						0.299		0.29		0.299		0.29		0.411		0.29
37.5 bgs	B16W97	pCi/g					0.18		0.01												
47.5 bgs	B16W83	pCi/g	0.113	U	0.59						0.376		0.29		0.30		0.29		0.376		0.29
47.5 bgs	B16W98	pCi/g					0.15		0.011												
72.5 bgs	B16W84	pCi/g	0.307	U	0.64	UJ					0.354		0.16	J	0.621		0.20	J	0.373		0.16
72.5 bgs	B16W99	pCi/g					0.177		0.012	J											
97.5 bgs	B16W85	pCi/g	0.17	U	0.55						0.48		0.14		0.587		0.31		0.367		0.14
97.5 bgs	B16WB0	pCi/g					0.148		0.01												
147.5 bgs	B16W86	pCi/g	0.109	U	0.57						0.664		0.27		0.799		0.27		0.382		0.27
147.5 bgs	B16WB1	pCi/g					0.194		0.01												
197.5 bgs	B16W87	pCi/g	0.135	U	0.6						0.517		0.3		0.474		0.30		0.553		0.30
197.5 bgs	B16WB2	pCi/g					0.164		0.011												
237 bgs	B16W88	pCi/g	0.163	U	0.56						0.277		0.26		0.447		0.26		0.344		0.26
237 bgs	B16WB3	pCi/g									0.353		0.032						0.381		0.14
272.5 bgs	B16W89	pCi/g	0.135	U	0.56						0.554		0.38		0.553		0.29		0.40		0.24
272.5 bgs	B16WB4	pCi/g									0.402		0.036						0.488		0.13
dup of B16W94	B16W95	pCi/g					0.043		0.003												
equip blank tied to B16W93 & B16W79	B16WB8	pCi/L	4.40	U	5.60						0.074	U	0.28		0	U	0.28		0	U	0.28
equip blank tied to B16W93 & B16W79	B16WC0	pCi/L					-0.808	U	10.0												
Target Quantitation Limit		pCi/g	15.0																1.00		

Table B4-1. Radiochemical Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Thorium-234			Tin-113			Tin-126			Total beta radiostrontium			Tritium			Uranium				Uranium-233/234		
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Units	Q	MDA	Result	Q	MDA
12.5 bgs	B16W93	pCi/g	-0.306	U	0.87	0.007	U	0.016	0.149	U	0.20							492	ug/kg	U		0.17		0.024
12.5 bgs	B16W79	pCi/g										1.70		0.25	134		0.26							
17.5 bgs	B16W80	pCi/g										0.001	U	0.25	152		0.27							
17.5 bgs	B16W94	pCi/g	0.502	U	0.61	-0.003	U	0.013	0.111	U	0.20							480	ug/kg	U		0.12		0.028
27.5 bgs	B16W81	pCi/g										-0.019	U	0.32	130		0.26							
27.5 bgs	B16W96	pCi/g	0.174		0.17	-0.002	U	0.003	0.01	U	0.01							466	ug/kg	U		0.11		0.016
37.5 bgs	B16W82	pCi/g										-0.012	U	0.25	154		0.27							
37.5 bgs	B16W97	pCi/g	0.51	U	0.57	-0.008	U	0.012	0.158	U	1.00							462	ug/kg	U		0.13		0.013
47.5 bgs	B16W83	pCi/g										-0.06	U	0.27	267		0.37							
47.5 bgs	B16W98	pCi/g	0.784		0.64	-0.001	U	0.014	0.128	U	0.20							491	ug/kg	U		0.13		0.017
72.5 bgs	B16W84	pCi/g										0.073	U	0.33	175		0.26							
72.5 bgs	B16W99	pCi/g	0.84	U	0.84	0.002	U	0.016	0.134	U	0.20							666	ug/kg	U		0.19		0.012
97.5 bgs	B16W85	pCi/g										0.023	U	0.33	225		0.31							
97.5 bgs	B16WB0	pCi/g	0.083	U	0.56	-0.001	U	0.013	0.121	U	0.20							583	ug/kg	U		0.16		0.005
147.5 bgs	B16W86	pCi/g										-0.004	U	0.32	83.2		0.17							
147.5 bgs	B16WB1	pCi/g	0.559	U	0.57	0	U	0.012	0.145	U	0.20							541	ug/kg	U		0.11		0.019
197.5 bgs	B16W87	pCi/g										0.091	U	0.31	79.6		0.17							
197.5 bgs	B16WB2	pCi/g	0.481	U	0.71	-0.007	U	0.013	0.144	U	0.20							524	ug/kg	U		0.11		0.013
237 bgs	B16W88	pCi/g										0.119	U	0.35	44		0.16							
237 bgs	B16WB3	pCi/g								U	0.05							273	ug/kg		3.00	0.366		0.23
272.5 bgs	B16W89	pCi/g										-0.034	U	0.17	50.4	B	0.24							
272.5 bgs	B16WB4	pCi/g								U	0.05							313	ug/kg		3.00	0.374		0.22
dup of B16W94	B16W95	pCi/g	0.141		0.13	-0.001	U	0.003	0.024	U	0.03							492	ug/kg	U		0.16		0.016
equip blank tied to B16W93 & B16W79	B16WB8	pCi/L										0.042	U	1.10	-31.4	U	220							
equip blank tied to B16W93 & B16W79	B16WC0	pCi/L	82.5	U	480	-9.23	U	12.0	3.08	U	24.0							0.125	ug/L	U		0.09		0.051
Target Quantitation Limit		pCi/g										1.00			400			1000				1.00		

Table B4-1. Radiochemical Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Uranium-235			Uranium-238			Zinc-65		
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
12.5 bgs	B16W93	pCi/g	0.012		0.005	0.18		0.005	0.043	U	0.035
12.5 bgs	B16W79	pCi/g									
17.5 bgs	B16W80	pCi/g									
17.5 bgs	B16W94	pCi/g	0.011	U	0.016	0.13		0.015	0.029	U	0.028
27.5 bgs	B16W81	pCi/g									
27.5 bgs	B16W96	pCi/g	0.013		0.005	0.14		0.005	0.008	U	0.008
37.5 bgs	B16W82	pCi/g									
37.5 bgs	B16W97	pCi/g	0.022		0.005	0.18		0.005	0.006	U	0.023
47.5 bgs	B16W83	pCi/g									
47.5 bgs	B16W98	pCi/g	0.01		0.005	0.15		0.005	-0.001	U	0.026
72.5 bgs	B16W84	pCi/g									
72.5 bgs	B16W99	pCi/g	0.014		0.013	0.17		0.012	0.042	U	0.033
97.5 bgs	B16W85	pCi/g									
97.5 bgs	B16WB0	pCi/g	0.018		0.005	0.14		0.005	0.013	U	0.023
147.5 bgs	B16W86	pCi/g									
147.5 bgs	B16WB1	pCi/g	0	U	0.014	0.14		0.016	0.005	U	0.023
197.5 bgs	B16W87	pCi/g									
197.5 bgs	B16WB2	pCi/g	0.028		0.005	0.11		0.005	0.044	U	0.029
237 bgs	B16W88	pCi/g									
237 bgs	B16WB3	pCi/g	0	U	0.28	0.396		0.23			
272.5 bgs	B16W89	pCi/g									
272.5 bgs	B16WB4	pCi/g	0.035	U	0.27	0.345		0.22			
dup of B16W94	B16W95	pCi/g	0.012	U	0.018	0.16		0.006	0.008	U	0.008
equip blank tied to B16W93 & B16W79	B16WB8	pCi/L									
equip blank tied to B16W93 & B16W79	B16WC0	pCi/L	0.014	U	0.043	0.047		0.012	12.1	U	21.0
Target Quantitation Limit		pCi/g	1.00			1.00					

bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
J = Estimated
Q = Qualifier
U = Undetected
UJ = Undetected, detection limit is estimated

Table B4-2. Metal Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Aluminum			Antimony			Arsenic			Barium		Beryllium		Bismuth		Boron		Cadmium	
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B16W93	ug/kg	8660000	E		2460	U		1560			114000		1480	U	9240	U	9425	U	492	U
12.5 bgs	B16W79	ug/kg				230	U		1700			165000		310		530	U	510		40.0	U
17.5 bgs	B16W80	ug/kg				230	U		2200			86800		180		520	U	580		40.0	U
17.5 bgs	B16W94	ug/kg	6390000	E		2400	U		1440	U		83800		1440	U	9550	U	9740	U	480	U
27.5 bgs	B16W81	ug/kg				220	U		2200			76200		210		500	U	360		40.0	U
27.5 bgs	B16W96	ug/kg	7260000	E		2330	U		1660			102000		1400	U	9180	U	9360	U	466	U
37.5 bgs	B16W82	ug/kg				230	U		1900			78500		150		520	U	360		40.0	U
37.5 bgs	B16W97	ug/kg	6930000	E		2310	U		1390	U		93200		1390	U	9460	U	9650	U	462	U
47.5 bgs	B16W83	ug/kg				230	U		2400			79600		140		520	U	500		40.0	U
47.5 bgs	B16W98	ug/kg	7440000	E		2460	U		1470	U		91600		1470	U	9840	U	10000	U	491	U
72.5 bgs	B16W84	ug/kg				230	U	UJ	2000			108000		380		540	U	570		40.0	U
72.5 bgs	B16W99	ug/kg	15000000	E	J	2400	U		3060	E	J	141000		1440	U	9660	U	9850	U	481	U
97.5 bgs	B16W85	ug/kg				360			2800			123000		390		530	U	470		40.0	U
97.5 bgs	B16WB0	ug/kg	12300000	E		2450	U		3460	E		193000		1470	U	9330	U	9520	U	490	U
147.5 bgs	B16W86	ug/kg				230			2700			63200		330		520	U	940		40.0	U
147.5 bgs	B16WB1	ug/kg	7780000	E		2360	U		2400			65500		1420	U	100	U	102	U	473	U
197.5 bgs	B16W87	ug/kg				220	U		1400			44900		290		520	U	670		40.0	U
197.5 bgs	B16WB2	ug/kg	7370000	E		2440	U		1460	U		62700		1460	U	100	U	102	U	487	U
237 bgs	B16W88	ug/kg				1500			1800			53800		260		420	U	660		30.0	U
272.5 bgs	B16W89																				
272.5 bgs	B16WB4	ug/kg				580			1200			49300		10.0	U	530	U	840		180	
dup of B16W94	B16W95	ug/kg	6970000	E		2460	U		3720			114000		1480	U	9630	U	9820	U	492	U
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	17.8			0.625	U		0.375	U		0.25	U	0.375	U	100	U	102	U	0.125	U
Target Quantitation Limit		ug/kg				6000			10000			20000		500						500	

Table B4-2. Metal Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Chromium		Cobalt		Copper			Hexavalent Chromium		Lead		Manganese			Mercury		Molybdenum		Nickel		
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q	Val Qual
12.5 bgs	B16W93	ug/kg	8850		12600		14700					5900	U	547000			492	U	1480	U	13000		
12.5 bgs	B16W79	ug/kg	8500				14600			430	U	3900					20.0				11000		
17.5 bgs	B16W80	ug/kg	6100				13300			420	U	3000					20.0	U			7800		
17.5 bgs	B16W94	ug/kg	7550		11500		14400					5760	U	435000			480	U	1580		14200		
27.5 bgs	B16W81	ug/kg	7100				12000			420	U	2900					20.0	U			7800		
27.5 bgs	B16W96	ug/kg	6280		11900		14000					5590	U	480000			466	U	1400	U	9800		
37.5 bgs	B16W82	ug/kg	4600				13800			420	U	2700					20.0	U			6800		
37.5 bgs	B16W97	ug/kg	4530		10800		13700					5540	U	430000			462	U	1750		8020		
47.5 bgs	B16W83	ug/kg	7000				14500			420	U	2500					20.0	U			7000		
47.5 bgs	B16W98	ug/kg	4360		11400		14200					5890	U	415000			491	U	1470	U	7570		
72.5 bgs	B16W84	ug/kg	6300				17200			436	U	3700					20.0				8400		
72.5 bgs	B16W99	ug/kg	7900		15900		19700		J			5770	U	652000		J	481	U	1440	U	11300	E	J
97.5 bgs	B16W85	ug/kg	7800				16500			430	U	4100					20.0	U			14300		
97.5 bgs	B16WB0	ug/kg	6210		12800		17400					5880	U	557000			490	U	1680		10200	E	
147.5 bgs	B16W86	ug/kg	10200				9700			413	U	3300					20.0	-			8900		
147.5 bgs	B16WB1	ug/kg	12300		6330		12700					5680	U	328000			473	U	1420	U	12500	E	
197.5 bgs	B16W87	ug/kg	23500				8500			411	U	2300					20.0	U			17100		
197.5 bgs	B16WB2	ug/kg	13500		7880		13900					5840	U	287000			487	U	1950		15100		
237 bgs	B16W88	ug/kg	10600				12000			405	U	13100					20.0	U			7700		
272.5 bgs	B16W89									410	U												
272.5 bgs	B16WB4	ug/kg	7100				11500					4500					20.0	U			7700		
dup of B16W94	B16W95	ug/kg	6070		13100		14200					5900	U	548000			492	U	1480	U	9620		
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	0.999		0.25	U	2.86			2.00	U	1.50	U	0.589			0.125	U	0.375	U	2.47		
Target Quantitation Limit		ug/kg	1000				2500			500		10000					200				4000		

Table B4-2. Metal Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Selenium		Silver			Thallium		Thorium		Vanadium		Zinc		
Interval	HEIS	Units	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual
12.5 bgs	B16W93	ug/kg	1480	U	984	U		883		2530		82700		56700		
12.5 bgs	B16W79	ug/kg	440	U	130	U										
17.5 bgs	B16W80	ug/kg	430	U	120	U										
17.5 bgs	B16W94	ug/kg	1440	U	1550			1310		2350		110000		64300		
27.5 bgs	B16W81	ug/kg	410	U	120	U										
27.5 bgs	B16W96	ug/kg	1400	U	932	U		466	U	2160		98300		56500		
37.5 bgs	B16W82	ug/kg	430	U	120	U										
37.5 bgs	B16W97	ug/kg	1390	U	1070			1260		2600		104000		51800		
47.5 bgs	B16W83	ug/kg	430	U	120	U										
47.5 bgs	B16W98	ug/kg	1470	U	982	U		491	U	2060		105000		55900		
72.5 bgs	B16W84	ug/kg	450	U	130	U										
72.5 bgs	B16W99	ug/kg	1440	U	2130		J	582		5060		122000		58400	E	J
97.5 bgs	B16W85	ug/kg	430	U	120	U										
97.5 bgs	B16WB0	ug/kg	1470	U	4140			1540		3380		88800		52000	E	
147.5 bgs	B16W86	ug/kg	430	U	120	U										
147.5 bgs	B16WB1	ug/kg	1420	U	1900			551		4460		48500		39100		
197.5 bgs	B16W87	ug/kg	430	U	120	U										
197.5 bgs	B16WB2	ug/kg	1460	U	2530			1520		3200		60000		42900		
237 bgs	B16W88	ug/kg	340	U	100	U										
272.5 bgs	B16W89															
272.5 bgs	B16WB4	ug/kg	430	U	120	U										
dup of B16W94	B16W95	ug/kg	1480	U	984	U		492	U	2310		110000		66300		
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	0.375	U	0.25	U		0.125	U	0.25	U	0.50	U	5.00	U	
Target Quantitation Limit		ug/kg	10000		2000											

bgs = Below ground surface
dup = Duplicate
E = Estimated
HEIS = Hanford Environmental Information System
J = Estimated
Q = Qualifier
U = Undetected
UJ = Undetected, detection limit is estimated
Val Qual = Validation qualifier

Table B4-3. General Inorganic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Ammonia as N			Bromide			Chloride			Cyanide			Fluoride			Nitrate as N		Nitrite as N		Nitrogen in Nitrite and Nitrate	
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q
12.5 bgs	B16W93	ug/kg	68700	U		2250	U		13800			190	U		1060			382000		1660			
12.5 bgs	B16W79	ug/kg	266000						14300			400	U		1300	U		385000	D	404	U	489000	D
17.5 bgs	B16W80	ug/kg	9000						1300	U		320	U		1300	U		162000	D	398	U	163000	D
17.5 bgs	B16W94	ug/kg	200	U		2250	U		1290			200	U		1150			134000		450	U		
27.5 bgs	B16W81	ug/kg	5200	U					1300	U		310	U		1300	U		4140		398	U	5100	
27.5 bgs	B16W96	ug/kg	200	U		2250	U		700	U		200	U		1130			4360		450	U		
37.5 bgs	B16W82	ug/kg	44200						1300	U		320	U		1300	U		10800		401	U	10500	D
37.5 bgs	B16W97	ug/kg	200	U		2250	U		700	U		190	U		1270			11200		450	U		
47.5 bgs	B16W83	ug/kg	4300	U					1300	U		380	U		1300	U		11500	D	401	U	13400	D
47.5 bgs	B16W98	ug/kg	200	U		2250	U		1220			190	U		350	U		11600		450	U		
72.5 bgs	B16W84	ug/kg	4800	U					1360	U		479	U	UJ	1360	U		25400		413	U	24100	
72.5 bgs	B16W99	ug/kg	200	U	UJ	2250	U	UJ	700	U	UJ				1690		J	33000		450	U		
97.5 bgs	B16W85	ug/kg	5300	U					1340	U		397	U		1340	U		5240		407	U	5650	
97.5 bgs	B16WB0	ug/kg	200	U		2250	U		700	U					1060			5110		450	U		
147.5 bgs	B16W86	ug/kg	4800	U					1290	U		333	U		1290	U		1570		392	U	1910	
147.5 bgs	B16WB1	ug/kg	200	U		2250	U		1270						350	U		1420		450	U		
147.5 bgs	B16WB5	%																					
197.5 bgs	B16W87	ug/kg	4500	U					1280	U		280	U		1280	U		1240		389	U	1430	
197.5 bgs	B16WB2	ug/kg	200	U		2250	U		9070						350	U		1910		450	U		
197.5 bgs	B16WB6	%																					
237 bgs	B16W88	ug/kg	4700	U					1270	U		415	U		1270	U		1020		386	U	1200	
272.5 bgs	B16W89	%																				2800	
272.5 bgs	B16WB4	ug/kg	4900	U					1300	U		280	U		1300	U		2030		389	U		
272.5 bgs	B16WB7	%																					
dup of B16W94	B16W95	ug/kg	288			2250	U		1340			190	U		1220			2650		450	U		
equip blank tied to B16W93 & B16W79	B16WB8	ug/L	100	U																		20.0	U
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	4.00	U		45.0	U		14.0	U		4.00	U		7.00	U		5.00	U	9.00	U		
Target Quantitation Limit		ug/kg	500						2000			500			5000			2500		2500			

Table B4-3. General Inorganic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Percent moisture (wet sample)		pH Measurement				Phosphate		Sulfate		
Interval	HEIS	Units	Result	Q	Result	Units	Q	Val Qual	Result	Q	Result	Q	Val Qual
12.5 bgs	B16W93	ug/kg			7.91	pH			650	U	31700		
12.5 bgs	B16W79	ug/kg			7.50	pH			1300	U	32000		
17.5 bgs	B16W80	ug/kg			7.90	pH			1300	U	1700		
17.5 bgs	B16W94	ug/kg			8.17	pH			650	U	2540		
27.5 bgs	B16W81	ug/kg			8.60	pH			1300	U	1800		
27.5 bgs	B16W96	ug/kg			8.88	pH			650	U	2620		
37.5 bgs	B16W82	ug/kg			8.50	pH			1300	U	2100		
37.5 bgs	B16W97	ug/kg			8.73	pH			650	U	5500		
47.5 bgs	B16W83	ug/kg			8.50	pH			1300	U	2100		
47.5 bgs	B16W98	ug/kg			8.70	pH			650	U	2730		
72.5 bgs	B16W84	ug/kg			8.40	pH		J	1360	U	2350		
72.5 bgs	B16W99	ug/kg			8.59	pH		J	650	U	5790		J
97.5 bgs	B16W85	ug/kg			8.55	pH			1340	U	1340	U	
97.5 bgs	B16WB0	ug/kg			8.78	pH			650	U	2080		
147.5 bgs	B16W86	ug/kg			8.87	pH			1290	U			
147.5 bgs	B16WB1	ug/kg			8.86	pH			650	U	5570		
147.5 bgs	B16WB5	%	3.50										
197.5 bgs	B16W87	ug/kg			8.88	pH			1280	U	4540		
197.5 bgs	B16WB2	ug/kg			9.18	pH			650	U	8160		
197.5 bgs	B16WB6	%	3.20										
237 bgs	B16W88	ug/kg			8.92	pH			1270	U	9330		
272.5 bgs	B16W89	%											
272.5 bgs	B16WB4	ug/kg			8.80	pH			1300	U	7500		
272.5 bgs	B16WB7	%	4.10										
dup of B16W94	B16W95	ug/kg			8.16	pH			650	U	2490		
equip blank tied to B16W93 & B16W79	B16WB8	ug/L											
equip blank tied to B16W93 & B16W79	B16WC0	ug/L							13.0	U	24.0	U	
Target Quantitation Limit		ug/kg							5000		5000		

bgs = Below ground surface
D = Sample reanalyzed at higher dilution factor
dup = Duplicate
HEIS = Hanford Environmental Information System
J = Estimated
Q = Qualifier
U = Undetected
UJ = Undetected, detection limit is estimated
Val Qual = Validation qualifier

Table B4-4. Volatile Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			1 1 1-Trichloroethane			1 1 2 2-Tetrachloroethane			1 1 2-Trichloroethane			1 1-Dichloroethane			1 1-Dichloroethene			1 2-Dichloroethane		
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual
12.5 bgs	B16W93	ug/kg	2.10	U		2.10	U		2.10	U		2.10	U		2.10	U		2.10	U	
12.5 bgs	B16W79	ug/kg	6.00	U		6.00	U		6.00	U		6.00	U		6.00	U		6.00	U	
17.5 bgs	B16W80	ug/kg	6.00	U		6.00	U		6.00	U		6.00	U		6.00	U		6.00	U	
17.5 bgs	B16W94	ug/kg	2.00	U		2.00	U		2.00	U		2.00	U		2.00	U		2.00	U	
27.5 bgs	B16W81	ug/kg	6.00	U		6.00	U		6.00	U		6.00	U		6.00	U		6.00	U	
27.5 bgs	B16W96	ug/kg	1.90	U		1.90	U		1.90	U		1.90	U		1.90	U		1.90	U	
37.5 bgs	B16W82	ug/kg	6.00	U		6.00	U		6.00	U		6.00	U		6.00	U		6.00	U	
37.5 bgs	B16W97	ug/kg	1.90	U		1.90	U		1.90	U		1.90	U		1.90	U		1.90	U	
47.5 bgs	B16W83	ug/kg	6.00	U		6.00	U		6.00	U		6.00	U		6.00	U		6.00	U	
47.5 bgs	B16W98	ug/kg	2.00	U		2.00	U		2.00	U		2.00	U		2.00	U		2.00	U	
72.5 bgs	B16W84	ug/kg	6.00	U	UJ	6.00	U	UJ	6.00	U	UJ	6.00	U	UJ	6.00	U	UJ	6.00	U	UJ
97.5 bgs	B16W85	ug/kg	6.00	U		6.00	U		6.00	U		6.00	U		6.00	U		6.00	U	
147.5 bgs	B16W86	ug/kg	5.00	U		5.00	U		5.00	U		5.00	U		5.00	U		5.00	U	
197.5 bgs	B16W87	ug/kg	5.00	U		5.00	U		5.00	U		5.00	U		5.00	U		5.00	U	
237 bgs	B16W88	ug/kg	6.00	U		6.00	U		6.00	U		6.00	U		6.00	U		6.00	U	
272.5 bgs	B16WB4	ug/kg	5.00	U		5.00	U		5.00	U		5.00	U		5.00	U		5.00	U	
dup of B16W94	B16W95	ug/kg	2.10	U		2.10	U		2.10	U		2.10	U		2.10	U		2.10	U	
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	1.00	U		1.00	U		1.00	U		1.00	U		1.00	U		1.00	U	
Target Quantitation Limit		ug/kg	5.00									10.0						5.00		

Table B4-4. Volatile Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			1 2-Dichloroethene (Total)			1 2-Dichloropropane			1-Butanol		2-Butanone			2-Hexanone			2-Pentanone	
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q
12.5 bgs	B16W93	ug/kg	2.10	U		2.10	U		21.0	U	2.10	U		2.10	U		2.10	U
12.5 bgs	B16W79	ug/kg	6.00	U		6.00	U				11.0	U		11.0	U			
17.5 bgs	B16W80	ug/kg	6.00	U		6.00	U				12.0	U		12.0	U			
17.5 bgs	B16W94	ug/kg	2.00	U		2.00	U		20.0	U	2.00	U		2.00	U		2.00	U
27.5 bgs	B16W81	ug/kg	6.00	U		6.00	U				12.0	U		12.0	U			
27.5 bgs	B16W96	ug/kg	1.90	U		1.90	U		19.0	U	1.90	U		1.90	U		1.90	U
37.5 bgs	B16W82	ug/kg	6.00	U		6.00	U				11.0	U		11.0	U			
37.5 bgs	B16W97	ug/kg	1.90	U		1.90	U		19.0	U	1.90	U		1.90	U		1.90	U
47.5 bgs	B16W83	ug/kg	6.00	U		6.00	U				12.0	U		12.0	U			
47.5 bgs	B16W98	ug/kg	2.00	U		2.00	U		20.0	U	2.00	U		2.00	U		2.00	U
72.5 bgs	B16W84	ug/kg	6.00	U	UJ	6.00	U	UJ			11.0	U	UJ	11.0	U	UJ		
97.5 bgs	B16W85	ug/kg	6.00	U		6.00	U				11.0	U		11.0	U			
147.5 bgs	B16W86	ug/kg	5.00	U		5.00	U				10.0	U		10.0	U			
197.5 bgs	B16W87	ug/kg	5.00	U		5.00	U				10.0	U		10.0	U			
237 bgs	B16W88	ug/kg	6.00	U		6.00	U				11.0	U		11.0	U			
272.5 bgs	B16WB4	ug/kg	5.00	U		5.00	U				10.0	U		10.0	U			
dup of B16W94	B16W95	ug/kg	2.10	U		2.10	U		21.0	U	2.10	U		2.10	U		2.10	U
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	1.00	U		1.00	U		10.0	U	1.00	U		1.00	U		1.00	U
Target Quantitation Limit		ug/kg	10.0						5000		10.0							

Table B4-4. Volatile Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			4-Methyl-2-Pentanone			Acetone			Benzene			Bromodi chloromethane			Bromoform		
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual
12.5 bgs	B16W93	ug/kg	2.10	U		2.10	U		2.10	U		2.10	U		2.10	U	
12.5 bgs	B16W79	ug/kg	11.0	U		13.0	B		6.00	U		6.00	U		6.00	U	
17.5 bgs	B16W80	ug/kg	12.0	U		7.00	JB		6.00	U		6.00	U		6.00	U	
17.5 bgs	B16W94	ug/kg	2.00	U		2.00	U		2.00	U		2.00	U		2.00	U	
27.5 bgs	B16W81	ug/kg	12.0	U		8.00	JB		6.00	U		6.00	U		6.00	U	
27.5 bgs	B16W96	ug/kg	1.90	U		1.90	U		1.90	U		1.90	U		1.90	U	
37.5 bgs	B16W82	ug/kg	11.0	U		9.00	JB		6.00	U		6.00	U		6.00	U	
37.5 bgs	B16W97	ug/kg	1.90	U		1.90	U		1.90	U		1.90	U		1.90	U	
47.5 bgs	B16W83	ug/kg	12.0	U		10.0	JB		6.00	U		6.00	U		6.00	U	
47.5 bgs	B16W98	ug/kg	2.00	U		2.00	U		2.00	U		2.00	U		2.00	U	
72.5 bgs	B16W84	ug/kg	11.0	U	UJ	9.01	JB	UJ	6.00	U	UJ	6.00	U	UJ	6.00	U	UJ
97.5 bgs	B16W85	ug/kg	11.0	U		14.9	B		6.00	U		6.00	U		6.00	U	
147.5 bgs	B16W86	ug/kg	10.0	U		11.6	B		5.00	U		5.00	U		5.00	U	
197.5 bgs	B16W87	ug/kg	10.0	U		8.21	JB		5.00	U		5.00	U		5.00	U	
237 bgs	B16W88	ug/kg	11.0	U		7.42	JB		6.00	U		6.00	U		6.00	U	
272.5 bgs	B16WB4	ug/kg	10.0	U		2.00	J		5.00	U		5.00	U		5.00	U	
dup of B16W94	B16W95	ug/kg	2.10	U		2.10	U		2.10	U		2.10	U		2.10	U	
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	1.00	U		2.00	U		1.00	U		1.00	U		1.00	U	
Target Quantitation Limit		ug/kg	10.0			20			5.00								

Table B4-4. Volatile Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Bromomethane			Carbon disulfide			Carbon tetrachloride			Chlorobenzene			Chloroethane			Chloroform		
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual
12.5 bgs	B16W93	ug/kg	2.10	U		2.10	U		2.10	U		2.10	U		2.10	U		2.10	U	
12.5 bgs	B16W79	ug/kg	11.0	U		6.00	U		6.00	U		6.00	U		11.0	U		6.00	U	
17.5 bgs	B16W80	ug/kg	12.0	U		6.00	U		6.00	U		6.00	U		12.0	U		6.00	U	
17.5 bgs	B16W94	ug/kg	2.00	U		2.00	U		2.00	U		2.00	U		2.00	U		2.00	U	
27.5 bgs	B16W81	ug/kg	12.0	U		6.00	U		6.00	U		6.00	U		12.0	U		6.00	U	
27.5 bgs	B16W96	ug/kg	1.90	U		1.90	U		1.90	U		1.90	U		1.90	U		1.90	U	
37.5 bgs	B16W82	ug/kg	11.0	U		6.00	U		6.00	U		6.00	U		11.0	U		6.00	U	
37.5 bgs	B16W97	ug/kg	1.90	U		1.90	U		1.90	U		1.90	U		1.90	U		1.90	U	
47.5 bgs	B16W83	ug/kg	12.0	U		6.00	U		6.00	U		6.00	U		12.0	U		6.00	U	
47.5 bgs	B16W98	ug/kg	2.00	U		2.00	U		2.00	U		2.00	U		2.00	U		2.00	U	
72.5 bgs	B16W84	ug/kg	11.0	U	UJ	6.00	U	UJ	6.00	U	UJ	6.00	U	UJ	11.0	U	UJ	6.00	U	UJ
97.5 bgs	B16W85	ug/kg	11.0	U		6.00	U		6.00	U		6.00	U		11.0	U		6.00	U	
147.5 bgs	B16W86	ug/kg	10.0	U		5.00	U		5.00	U		5.00	U		10.0	U		5.00	U	
197.5 bgs	B16W87	ug/kg	10.0	U		5.00	U		5.00	U		5.00	U		10.0	U		5.00	U	
237 bgs	B16W88	ug/kg	11.0	U		6.00	U		6.00	U		6.00	U		11.0	U		6.00	U	
272.5 bgs	B16WB4	ug/kg	10.0	U		5.00	U		5.00	U		5.00	U		10.0	U		5.00	U	
dup of B16W94	B16W95	ug/kg	2.10	U		2.10	U		2.10	U		2.10	U		2.10	U		2.10	U	
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	1.00	U		1.00	U		1.00	U		1.00	U		1.00	U		1.00	U	
Target Quantitation Limit		ug/kg							5.00			5.00						5.00		

Table B4-4. Volatile Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Chloromethane			cis-1 3-Dichloropropene			Dibromochloro methane			Ethylbenzene			Methylenechloride		
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual
12.5 bgs	B16W93	ug/kg	2.10	U		2.10	U		2.10	U		2.10	U		2.10	U	
12.5 bgs	B16W79	ug/kg	11.0	U		6.00	U		6.00	U		6.00	U		6.00	U	
17.5 bgs	B16W80	ug/kg	12.0	U		6.00	U		6.00	U		6.00	U		6.00	UC	
17.5 bgs	B16W94	ug/kg	2.00	U		2.00	U		2.00	U		2.00	U		2.00	U	
27.5 bgs	B16W81	ug/kg	12.0	U		6.00	U		6.00	U		6.00	U		2.00	JB	
27.5 bgs	B16W96	ug/kg	1.90	U		1.90	U		1.90	U		1.90	U		1.90	U	
37.5 bgs	B16W82	ug/kg	11.0	U		6.00	U		6.00	U		6.00	U		2.00	JB	
37.5 bgs	B16W97	ug/kg	1.90	U		1.90	U		1.90	U		1.90	U		1.90	U	
47.5 bgs	B16W83	ug/kg	12.0	U		6.00	U		6.00	U		6.00	U		3.00	JB	
47.5 bgs	B16W98	ug/kg	2.00	U		2.00	U		2.00	U		2.00	U		2.00	U	
72.5 bgs	B16W84	ug/kg	11.0	U	UJ	6.00	U	UJ	6.00	U	UJ	6.00	U	UJ	6.25	B	UJ
97.5 bgs	B16W85	ug/kg	11.0	U		6.00	U		6.00	U		6.00	U		4.87	JB	
147.5 bgs	B16W86	ug/kg	10.0	U		5.00	U		5.00	U		5.00	U		5.00	U	
197.5 bgs	B16W87	ug/kg	10.0	U		5.00	U		5.00	U		5.00	U		4.25	JB	
237 bgs	B16W88	ug/kg	11.0	U		6.00	U		6.00	U		6.00	U		3.61	JB	
272.5 bgs	B16WB4	ug/kg	10.0	U		5.00	U		5.00	U		5.00	U		5.00	U	
dup of B16W94	B16W95	ug/kg	2.10	U		2.10	U		2.10	U		2.10	U		2.10	U	
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	1.00	U		1.00	U		1.00	U		1.00	U		1.00	U	
Target Quantitation Limit		ug/kg										5.00			5.00		

Table B4-4. Volatile Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			n-Butylbenzene			Styrene			Tetrachloro ethene			Toluene			trans-1 3-Dichloropropene			Trichloroethene		
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual
12.5 bgs	B16W93	ug/kg	2.10	U		2.10	U		2.10	U		2.10	U		2.10	U		2.10	U	
12.5 bgs	B16W79	ug/kg	6.00	U		6.00	U		6.00	U		6.00	U		6.00	U		6.00	U	
17.5 bgs	B16W80	ug/kg	6.00	U		6.00	U		6.00	U		6.00	U		6.00	U		6.00	U	
17.5 bgs	B16W94	ug/kg	2.00	U		2.00	U		2.00	U		2.00	U		2.00	U		2.00	U	
27.5 bgs	B16W81	ug/kg	6.00	U		6.00	U		6.00	U		6.00	U		6.00	U		6.00	U	
27.5 bgs	B16W96	ug/kg	1.90	U		1.90	U		1.90	U		1.90	U		1.90	U		1.90	U	
37.5 bgs	B16W82	ug/kg	6.00	U		6.00	U		6.00	U		6.00	U		6.00	U		6.00	U	
37.5 bgs	B16W97	ug/kg	1.90	U		1.90	U		1.90	U		1.90	U		1.90	U		1.90	U	
47.5 bgs	B16W83	ug/kg	6.00	U		6.00	U		6.00	U		6.00	U		6.00	U		6.00	U	
47.5 bgs	B16W98	ug/kg	2.00	U		2.00	U		2.00	U		2.00	U		2.00	U		2.00	U	
72.5 bgs	B16W84	ug/kg	6.00	U	UJ	6.00	U	UJ	6.00	U	UJ	6.00	U	UJ	6.00	U	UJ	6.00	U	UJ
97.5 bgs	B16W85	ug/kg	6.00	U		6.00	U		6.00	U		6.00	U		6.00	U		6.00	U	
147.5 bgs	B16W86	ug/kg	5.00	U		5.00	U		5.00	U		5.00	U		5.00	U		5.00	U	
197.5 bgs	B16W87	ug/kg	5.00	U		5.00	U		5.00	U		5.00	U		5.00	U		5.00	U	
237 bgs	B16W88	ug/kg	6.00	U		6.00	U		6.00	U		6.00	U		6.00	U		6.00	U	
272.5 bgs	B16WB4	ug/kg	5.00	U		5.00	U		5.00	U		5.00	U		5.00	U		5.00	U	
dup of B16W94	B16W95	ug/kg	2.10	U		2.10	U		2.10	U		2.10	U		2.10	U		2.10	U	
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	1.00	U		1.00	U		1.00	U		1.00	U		1.00	U		1.00	U	
Target Quantitation Limit		ug/kg	5.00						5.00			5.00						5.00		

Table B4-4. Volatile Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Vinyl chloride			Xylenes (total)		
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Val Qual
12.5 bgs	B16W93	ug/kg	2.10	U		2.10	U	
12.5 bgs	B16W79	ug/kg	11.0	U		6.00	U	
17.5 bgs	B16W80	ug/kg	12.0	U		6.00	U	
17.5 bgs	B16W94	ug/kg	2.00	U		2.00	U	
27.5 bgs	B16W81	ug/kg	12.0	U		6.00	U	
27.5 bgs	B16W96	ug/kg	1.90	U		1.90	U	
37.5 bgs	B16W82	ug/kg	11.0	U		6.00	U	
37.5 bgs	B16W97	ug/kg	1.90	U		1.90	U	
47.5 bgs	B16W83	ug/kg	12.0	U		6.00	U	
47.5 bgs	B16W98	ug/kg	2.00	U		2.00	U	
72.5 bgs	B16W84	ug/kg	11.0	U	UJ	6.00	U	UJ
97.5 bgs	B16W85	ug/kg	11.0	U		6.00	U	
147.5 bgs	B16W86	ug/kg	10.0	U		5.00	U	
197.5 bgs	B16W87	ug/kg	10.0	U		5.00	U	
237 bgs	B16W88	ug/kg	11.0	U		6.00	U	
272.5 bgs	B16WB4	ug/kg	10.0	U		5.00	U	
dup of B16W94	B16W95	ug/kg	2.10	U		2.10	U	
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	1.00	U		1.00	U	
Target Quantitation Limit		ug/kg				5.00		

B = Analyte found in associated method blank
bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
J = Estimated
Q = Qualifier
U = Undetected
UJ = Undetected, detection limit is estimated
Val Qual = Validation qualifier

Table B4-5. Semi-Volatile Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			1 2 4-Trichloro benzene		1 2-Dichloro benzene		1 3-Dichloro benzene		1 4-Dichloro benzene		1-Chloro propane		2 4 5-Trichloro phenol		2 4 6-Trichloro phenol		2 4-Dichloro phenol	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B16W93	ug/kg	310	U	380	U	340	U	330	U			77.0	U	70.0	U	84.0	U
12.5 bgs	B16W79	ug/kg	360	U	360	U	360	U	360	U			890	U	360	U	360	U
17.5 bgs	B16W80	ug/kg	350	U	350	U	350	U	350	U			870	U	350	U	350	U
17.5 bgs	B16W94	ug/kg	300	U	370	U	330	U	320	U			76.0	U	69.0	U	83.0	U
27.5 bgs	B16W81	ug/kg	350	U	350	U	350	U	350	U			870	U	350	U	350	U
27.5 bgs	B16W96	ug/kg	300	U	370	U	330	U	320	U			75.0	U	68.0	U	82.0	U
37.5 bgs	B16W82	ug/kg	350	U	350	U	350	U	350	U			880	U	350	U	350	U
37.5 bgs	B16W97	ug/kg	310	U	380	U	330	U	330	U			77.0	U	70.0	U	83.0	U
47.5 bgs	B16W83	ug/kg	350	U	350	U	350	U	350	U			880	U	350	U	350	U
47.5 bgs	B16W98	ug/kg	310	U	380	U	330	U	330	U			77.0	U	70.0	U	84.0	U
72.5 bgs	B16W84	ug/kg	360	U	360	U	360	U	360	U			910	U	360	U	360	U
97.5 bgs	B16W85	ug/kg	360	U	360	U	360	U	360	U			900	U	360	U	360	U
147.5 bgs	B16W86	ug/kg	340	U	340	U	340	U	340	U			860	U	340	U	340	U
197.5 bgs	B16W87	ug/kg	340	U	340	U	340	U	340	U			860	U	340	U	340	U
237 bgs	B16W88	ug/kg	340	U	340	U	340	U	340	U			860	U	340	U	340	U
272.5 bgs	B16WB4	ug/kg	350	U	350	U	350	U	350	U	350	U	860	U	350	U	350	U
dup of B16W94	B16W95	ug/kg	300	U	370	U	330	U	320	U			76.0	U	69.0	U	83.0	U
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	3.40	U	4.80	U	6.00	U	5.70	U			2.20	U	2.80	U	1.60	U
Target Quantitation Limit		ug/kg																

Table B4-5. Semi-Volatile Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			2 4-Dimethyl phenol		2 4-Dinitro phenol		2 4-Dinitro toluene		2 6-Dinitro toluene		2-Butoxy ethanol		2-Chloronaph thalene		2-Chloro phenol		2-Methylnaph thalene		2-Methylphenol (cresol o-)	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B16W93	ug/kg	70.0	U	700	U	70.0	U	70.0	U	110	U	84.0	U	150	U	190	U	70.0	U
12.5 bgs	B16W79	ug/kg	360	U	890	U	360	U	360	U	360	U	360	U	360	U	360	U	360	U
17.5 bgs	B16W80	ug/kg	350	U	870	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
17.5 bgs	B16W94	ug/kg	69.0	U	690	U	69.0	U	69.0	U	100	U	83.0	U	150	U	190	U	69.0	U
27.5 bgs	B16W81	ug/kg	350	U	870	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
27.5 bgs	B16W96	ug/kg	68.0	U	680	U	68.0	U	68.0	U	100	U	82.0	U	150	U	180	U	68.0	U
37.5 bgs	B16W82	ug/kg	350	U	880	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
37.5 bgs	B16W97	ug/kg	70.0	U	700	U	70.0	U	70.0	U	100	U	83.0	U	150	U	190	U	70.0	U
47.5 bgs	B16W83	ug/kg	350	U	880	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
47.5 bgs	B16W98	ug/kg	70.0	U	700	U	70.0	U	70.0	U	100	U	84.0	U	150	U	190	U	70.0	U
72.5 bgs	B16W84	ug/kg	360	U	910	U	360	U	360	U	360	U	360	U	360	U	360	U	360	U
97.5 bgs	B16W85	ug/kg	360	U	900	U	360	U	360	U	360	U	360	U	360	U	360	U	360	U
147.5 bgs	B16W86	ug/kg	340	U	860	U	340	U	340	U	340	U	340	U	340	U	340	U	340	U
197.5 bgs	B16W87	ug/kg	340	U	860	U	340	U	340	U	340	U	340	U	340	U	340	U	340	U
237 bgs	B16W88	ug/kg	340	U	840	U	340	U	340	U	340	U	340	U	340	U	340	U	340	U
272.5 bgs	B16WB4	ug/kg	350	U	860	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
dup of B16W94	B16W95	ug/kg	69.0	U	690	U	69.0	U	69.0	U	100	U	83.0	U	150	U	190	U	69.0	U
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	4.90	U	3.80	U	2.10	U	2.50	U	3.60	U	2.60	U	2.00	U	2.20	U	2.60	U
Target Quantitation Limit		ug/kg																		

Table B4-5. Semi-Volatile Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			2-Nitro aniline		2-Nitro phenol		3 3'-Dichloro benzidine		3-Methylphenol (cresol m-)		3-Nitro aniline		4 6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B16W93	ug/kg	70.0	U	180	U	84.0	U	120	U	70.0	U	700	U	70.0	U
12.5 bgs	B16W79	ug/kg	890	U	360	U	360	U			890	U	890	U	360	U
17.5 bgs	B16W80	ug/kg	870	U	350	U	350	U			870	U	870	U	350	U
17.5 bgs	B16W94	ug/kg	69.0	U	180	U	83.0	U	120	U	69.0	U	690	U	69.0	U
27.5 bgs	B16W81	ug/kg	870	U	350	U	350	U			870	U	870	U	350	U
27.5 bgs	B16W96	ug/kg	68.0	U	180	U	82.0	U	120	U	68.0	U	680	U	68.0	U
37.5 bgs	B16W82	ug/kg	880	U	350	U	350	U			880	U	880	U	350	U
37.5 bgs	B16W97	ug/kg	70.0	U	180	U	83.0	U	120	U	70.0	U	700	U	70.0	U
47.5 bgs	B16W83	ug/kg	880	U	350	U	350	U			880	U	880	U	350	U
47.5 bgs	B16W98	ug/kg	70.0	U	180	U	84.0	U	120	U	70.0	U	700	U	70.0	U
72.5 bgs	B16W84	ug/kg	910	U	360	U	360	U			910	U	910	U	360	U
97.5 bgs	B16W85	ug/kg	900	U	360	U	360	U			900	U	900	U	360	U
147.5 bgs	B16W86	ug/kg	860	U	340	U	340	U			860	U	860	U	340	U
197.5 bgs	B16W87	ug/kg	860	U	340	U	340	U			860	U	860	U	340	U
237 bgs	B16W88	ug/kg	840	U	340	U	340	U			840	U	840	U	340	U
272.5 bgs	B16WB4	ug/kg	860	U	350	U	350	U			860	U	860	U	350	U
dup of B16W94	B16W95	ug/kg	69.0	U	180	U	83.0	U	120	U	69.0	U	690	U	69.0	U
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	2.40	U	2.30	U	4.70	U	3.70	U	5.20	U	2.00	U	2.20	U
Target Quantitation Limit		ug/kg														

Table B4-5. Semi-Volatile Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			4-Chloro-3-methylphenol		4-Chloro aniline		4-Chlorophenyl phenyl ether		4-Methylphenol (cresol p-)		4-Nitro aniline		4-Nitro phenol		Acenaph thene		Acenaph thylene	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B16W93	ug/kg	70.0	U	98.0	U	70.0	U			260	U	680	U	70.0	U	84.0	U
12.5 bgs	B16W79	ug/kg	360	U	360	U	360	U	360	U	890	U	890	U	360	U	360	U
17.5 bgs	B16W80	ug/kg	350	U	350	U	350	U	350	U	870	U	870	U	350	U	350	U
17.5 bgs	B16W94	ug/kg	69.0	U	96.0	U	69.0	U			250	U	670	U	69.0	U	83.0	U
27.5 bgs	B16W81	ug/kg	350	U	350	U	350	U	350	U	870	U	870	U	350	U	350	U
27.5 bgs	B16W96	ug/kg	68.0	U	95.0	U	68.0	U			250	U	660	U	68.0	U	82.0	U
37.5 bgs	B16W82	ug/kg	350	U	350	U	350	U	350	U	880	U	880	U	350	U	350	U
37.5 bgs	B16W97	ug/kg	70.0	U	97.0	U	70.0	U			260	U	670	U	70.0	U	83.0	U
47.5 bgs	B16W83	ug/kg	350	U	350	U	350	U	350	U	880	U	880	U	350	U	350	U
47.5 bgs	B16W98	ug/kg	70.0	U	98.0	U	70.0	U			260	U	680	U	70.0	U	84.0	U
72.5 bgs	B16W84	ug/kg	360	U	360	U	360	U	360	U	910	U	910	U	360	U	360	U
97.5 bgs	B16W85	ug/kg	360	U	360	U	360	U	360	U	900	U	900	U	360	U	360	U
147.5 bgs	B16W86	ug/kg	340	U	340	U	340	U	340	U	860	U	860	U	340	U	340	U
197.5 bgs	B16W87	ug/kg	340	U	340	U	340	U	340	U	860	U	860	U	340	U	340	U
237 bgs	B16W88	ug/kg	340	U	340	U	340	U	340	U	840	U	860	U	340	U	340	U
272.5 bgs	B16WB4	ug/kg	350	U	350	U	350	U	350	U	860	U	860	U	350	U	350	U
dup of B16W94	B16W95	ug/kg	69.0	U	96.0	U	69.0	U			250	U	670	U	69.0	U	83.0	U
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	1.50	U	8.30	U	2.50	U			3.30	U	1.60	U	2.80	U	2.60	U
Target Quantitation Limit		ug/kg																

Table B4-5. Semi-Volatile Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Anthracene		Benzo(a) anthracene		Benzo(a) pyrene		Benzo(b) fluoranthene		Benzo(ghi) perylene		Benzo(k) fluoranthene		Benzyl alcohol		Bis(2-chloro-1-methylethyl)ether	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B16W93	ug/kg	70.0	U	70.0	U	70.0	U	70.0	U	70.0	U	70.0	U	77.0	U	270	U
12.5 bgs	B16W79	ug/kg	360	U	360	U	360	U	360	U	360	U	360	U	360	U	360	U
17.5 bgs	B16W80	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
17.5 bgs	B16W94	ug/kg	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U	76.0	U	260	U
27.5 bgs	B16W81	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
27.5 bgs	B16W96	ug/kg	68.0	U	68.0	U	68.0	U	68.0	U	68.0	U	68.0	U	75.0	U	260	U
37.5 bgs	B16W82	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
37.5 bgs	B16W97	ug/kg	70.0	U	70.0	U	70.0	U	70.0	U	70.0	U	70.0	U	77.0	U	260	U
47.5 bgs	B16W83	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
47.5 bgs	B16W98	ug/kg	70.0	U	70.0	U	70.0	U	70.0	U	70.0	U	70.0	U	77.0	U	260	U
72.5 bgs	B16W84	ug/kg	360	U	360	U	360	U	360	U	360	U	360	U	360	U	360	U
97.5 bgs	B16W85	ug/kg	360	U	360	U	360	U	360	U	360	U	360	U	360	U	360	U
147.5 bgs	B16W86	ug/kg	340	U	340	U	340	U	340	U	340	U	340	U	340	U	340	U
197.5 bgs	B16W87	ug/kg	340	U	340	U	340	U	340	U	340	U	340	U	340	U	340	U
237 bgs	B16W88	ug/kg	340	U	340	U	340	U	340	U	340	U	340	U	340	U	340	U
272.5 bgs	B16WB4	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
dup of B16W94	B16W95	ug/kg	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U	76.0	U	260	U
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	2.30	U	2.40	U	2.20	U	2.00	U	2.90	U	3.20	U	2.10	U	2.40	U
Target Quantitation Limit		ug/kg																

Table B4-5. Semi-Volatile Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Bis(2-Chloroethoxy) methane		Bis(2-chloroethyl) ether		Bis(2-ethylhexyl) phthalate		Butylbenzylphthalate		Carbazole		Chrysene		cyclohexyl isocyanate	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B16W93	ug/kg	120	U	260	U	590	U	70.0	U	84.0	U	70.0	U		
12.5 bgs	B16W79	ug/kg	360	U	360	U	21.0	J	360	U	360	U	360	U		
17.5 bgs	B16W80	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U		
17.5 bgs	B16W94	ug/kg	120	U	250	U	2100		69.0	U	83.0	U	69.0	U	320	JN
27.5 bgs	B16W81	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U		
27.5 bgs	B16W96	ug/kg	120	U	250	U	690		68.0	U	82.0	U	68.0	U		
37.5 bgs	B16W82	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U		
37.5 bgs	B16W97	ug/kg	120	U	260	U	580	U	70.0	U	83.0	U	70.0	U		
47.5 bgs	B16W83	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U		
47.5 bgs	B16W98	ug/kg	120	U	260	U	590	U	70.0	U	84.0	U	70.0	U		
72.5 bgs	B16W84	ug/kg	360	U	360	U	360	U	360	U	360	U	360	U		
97.5 bgs	B16W85	ug/kg	360	U	360	U	360	U	360	U	360	U	360	U		
147.5 bgs	B16W86	ug/kg	340	U	340	U	340	U	340	U	340	U	340	U		
197.5 bgs	B16W87	ug/kg	340	U	340	U	18.2	J	340	U	340	U	340	U		
237 bgs	B16W88	ug/kg	340	U	340	U	47.2	J	340	U	340	U	340	U		
272.5 bgs	B16WB4	ug/kg	350	U	350	U	78.0	JB	350	U	350	U	350	U		
dup of B16W94	B16W95	ug/kg	120	U	250	U	580	U	69.0	U	83.0	U	69.0	U		
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	2.30	U	3.90	U	3.00	U	2.30	U	1.60	U	2.60	U		
Target Quantitation Limit		ug/kg														

Table B4-5. Semi-Volatile Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Cyclotetrasiloxane Octamethyl		Dibenz[a h] anthracene	
Interval	HEIS	Units	Result	Q	Result	Q
12.5 bgs	B16W93	ug/kg			70.0	U
12.5 bgs	B16W79	ug/kg			360	U
17.5 bgs	B16W80	ug/kg			350	U
17.5 bgs	B16W94	ug/kg			69.0	U
27.5 bgs	B16W81	ug/kg			350	U
27.5 bgs	B16W96	ug/kg			68.0	U
37.5 bgs	B16W82	ug/kg			350	U
37.5 bgs	B16W97	ug/kg			70.0	U
47.5 bgs	B16W83	ug/kg			350	U
47.5 bgs	B16W98	ug/kg			70.0	U
72.5 bgs	B16W84	ug/kg			360	U
97.5 bgs	B16W85	ug/kg			360	U
147.5 bgs	B16W86	ug/kg			340	U
197.5 bgs	B16W87	ug/kg			340	U
237 bgs	B16W88	ug/kg			340	U
272.5 bgs	B16WB4	ug/kg			350	U
dup of B16W94	B16W95	ug/kg	140	JN	69.0	U
equip blank tied to B16W93 & B16W79	B16WC0	ug/L			3.00	U
Target Quantitation Limit		ug/kg				

Table B4-5. Semi-Volatile Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Dibenzo furan		Diethyl phthalate		Dimethyl phthalate		Di-n-butylph thalate		Di-n-octylph thalate		Fluor anthene		Fluorene		Hexachloro benzene		Hexachloro butadiene	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B16W93	ug/kg	70.0	U	650	BJ	70.0	U	91.0	U	70.0	U	70.0	U	70.0	U	70.0	U	390	U
12.5 bgs	B16W79	ug/kg	360	U	360	U	360	U	360	U	360	U	360	U	360	U	360	U	360	U
17.5 bgs	B16W80	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
17.5 bgs	B16W94	ug/kg	69.0	U	510	BJ	69.0	U	90.0	U	69.0	U	69.0	U	69.0	U	69.0	U	380	U
27.5 bgs	B16W81	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
27.5 bgs	B16W96	ug/kg	68.0	U	190	U	68.0	U	88.0	U	68.0	U	68.0	U	68.0	U	68.0	U	370	U
37.5 bgs	B16W82	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
37.5 bgs	B16W97	ug/kg	70.0	U	760	B	70.0	U	90	U	70.0	U	70.0	U	70.0	U	70.0	U	380	U
47.5 bgs	B16W83	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
47.5 bgs	B16W98	ug/kg	70.0	U	700	B	70.0	U	91.0	U	70.0	U	70.0	U	70.0	U	70.0	U	380	U
72.5 bgs	B16W84	ug/kg	360	U	360	U	360	U	360	U	360	U	360	U	360	U	360	U	360	U
97.5 bgs	B16W85	ug/kg	360	U	360	U	360	U	360	U	360	U	360	U	360	U	360	U	360	U
147.5 bgs	B16W86	ug/kg	340	U	340	U	340	U	340	U	340	U	340	U	340	U	340	U	340	U
197.5 bgs	B16W87	ug/kg	340	U	340	U	340	U	340	U	340	U	340	U	340	U	340	U	340	U
237 bgs	B16W88	ug/kg	340	U	340	U	340	U	340	U	340	U	340	U	340	U	340	U	340	U
272.5 bgs	B16WB4	ug/kg	350	U	350	U	350	U	19	J	350	U	350	U	350	U	350	U	350	U
dup of B16W94	B16W95	ug/kg	69.0	U	190	U	69.0	U	89.0	U	69.0	U	69.0	U	69.0	U	69.0	U	380	U
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	2.20	U	7.20	U	2.40	U	2.40	U	2.90	U	2.40	U	2.30	U	2.40	U	4.10	U
Target Quantitation Limit		ug/kg																		

Table B4-5. Semi-Volatile Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Hexachloro cyclopentadiene		Hexachloro ethane		Indeno(1 2 3-cd)pyrene		Iso phorone		Naph thalene		n-Butyl benzene sulfonamide		Nitro benzene	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B16W93	ug/kg	330	U	490	U	70.0	U	70.0	U	300	U	660	JN	270	U
12.5 bgs	B16W79	ug/kg	360	U	360	U	360	U	360	U	360	U			360	U
17.5 bgs	B16W80	ug/kg	350	U	350	U	350	U	350	U	350	U			350	U
17.5 bgs	B16W94	ug/kg	320	U	480	U	69.0	U	69.0	U	300	U	18000	JN	270	U
27.5 bgs	B16W81	ug/kg	350	U	350	U	350	U	350	U	350	U			350	U
27.5 bgs	B16W96	ug/kg	320	U	480	U	68.0	U	68.0	U	290	U			270	U
37.5 bgs	B16W82	ug/kg	350	U	350	U	350	U	350	U	350	U			350	U
37.5 bgs	B16W97	ug/kg	330	U	490	U	70.0	U	70.0	U	300	U	1100	JN	270	U
47.5 bgs	B16W83	ug/kg	350	U	350	U	350	U	350	U	350	U			350	U
47.5 bgs	B16W98	ug/kg	330	U	490	U	70.0	U	70.0	U	300	U	1000	JN	270	U
72.5 bgs	B16W84	ug/kg	360	U	360	U	360	U	360	U	360	U			360	U
97.5 bgs	B16W85	ug/kg	360	U	360	U	360	U	360	U	360	U			360	U
147.5 bgs	B16W86	ug/kg	340	U	340	U	340	U	340	U	340	U			340	U
197.5 bgs	B16W87	ug/kg	340	U	340	U	340	U	340	U	340	U			340	U
237 bgs	B16W88	ug/kg	340	U	340	U	340	U	340	U	340	U			340	U
272.5 bgs	B16WB4	ug/kg	350	U	350	U	350	U	350	U	350	U			350	U
dup of B16W94	B16W95	ug/kg	320	U	480	U	69.0	U	69.0	U	300	U			270	U
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	9.00	U	6.30	U	3.00	U	2.20	U	2.80	U			2.30	U
Target Quantitation Limit		ug/kg														

Table B4-5. Semi-Volatile Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			N-Nitrosodi-n-dipropylamine		N-Nitrosodiphenylamine		Pentachlorophenol		Phenanthrene		Phenol		Pyrene		Tributyl phosphate	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
12.5 bgs	B16W93	ug/kg	70.0	U	70.0	U	320	U	70.0	U	110	U	70.0	U	70.0	U
12.5 bgs	B16W79	ug/kg	360	U	360	U	890	U	360	U	360	U	360	U	45.0	J
17.5 bgs	B16W80	ug/kg	350	U	350	U	870	U	350	U	350	U	350	U	350	U
17.5 bgs	B16W94	ug/kg	69.0	U	69.0	U	310	U	69.0	U	100	U	69.0	U	69.0	U
27.5 bgs	B16W81	ug/kg	350	U	350	U	870	U	350	U	350	U	350	U	350	U
27.5 bgs	B16W96	ug/kg	68.0	U	68.0	U	310	U	68.0	U	100	U	68.0	U	68.0	U
37.5 bgs	B16W82	ug/kg	350	U	350	U	880	U	350	U	350	U	350	U	350	U
37.5 bgs	B16W97	ug/kg	70.0	U	70.0	U	310	U	70.0	U	100	U	70.0	U	70.0	U
47.5 bgs	B16W83	ug/kg	350	U	350	U	880	U	350	U	350	U	350	U	350	U
47.5 bgs	B16W98	ug/kg	70.0	U	70.0	U	310	U	70.0	U	100	U	70.0	U	70.0	U
72.5 bgs	B16W84	ug/kg	360	U	360	U	910	U	360	U	360	U	360	U	360	U
97.5 bgs	B16W85	ug/kg	360	U	360	U	900	U	360	U	360	U	360	U	360	U
147.5 bgs	B16W86	ug/kg	340	U	340	U	860	U	340	U	340	U	340	U	340	U
197.5 bgs	B16W87	ug/kg	340	U	340	U	860	U	340	U	340	U	340	U	340	U
237 bgs	B16W88	ug/kg	340	U	340	U	840	U	340	U	340	U	340	U	340	U
272.5 bgs	B16WB4	ug/kg	350	U	350	U	860	U	350	U	350	U	350	U	350	U
dup of B16W94	B16W95	ug/kg	69.0	U	69.0	U	310	U	69.0	U	100	U	69.0	U	69.0	U
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	2.00	U	2.60	U	2.00	U	2.50	U	2.00	U	2.40	U	2.90	U
Target Quantitation Limit		ug/kg									330				330	

B = Analyte found in associated method blank
bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
J = Estimated
N = Tentatively identified compound based on mass spectral library search
Q = Qualifier
U = Undetected

Table B4-6. Miscellaneous Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Endo sulfan 1		Endrin		Hepta chlor		1-Butanol			2 4 5-Trichlorophenoxy acetic acid		2 4-Dichlorophenoxy acetic acid		2-(2 4 5-Trichlorophenoxy) propionic acid	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q
0.5 bgs	B16W91	ug/kg	1.80	U	3.60	U	1.80	U				18.0	U	36.0	U	18.0	U
12.5 bgs	B16W93	ug/kg															
12.5 bgs	B16W79	ug/kg							28000	U							
17.5 bgs	B16W80	ug/kg							25000	U							
17.5 bgs	B16W94	ug/kg															
27.5 bgs	B16W81	ug/kg							23000	U							
27.5 bgs	B16W96	ug/kg															
37.5 bgs	B16W82	ug/kg							23000	U							
37.5 bgs	B16W97	ug/kg															
47.5 bgs	B16W83	ug/kg							24000	U							
47.5 bgs	B16W98	ug/kg															
72.5 bgs	B16W84	ug/kg							24000	U	J						
97.5 bgs	B16W85	ug/kg							24000	U							
147.5 bgs	B16W86	ug/kg							23000	U							
197.5 bgs	B16W87	ug/kg							26000	U							
237 bgs	B16W88	ug/kg							22000	U							
272.5 bgs	B16W89	ug/kg															
272.5 bgs	B16WB4	ug/kg							24000	U							
dup of B16W94	B16W95	ug/kg															
equip blank tied to B16W93 & B16W79	B16WB8	ug/L															
equip blank tied to B16W93 & B16W79	B16WC0	ug/L															
Target Quantitation Limit		ug/kg															

Table B4-6. Miscellaneous Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			2-secButyl-4 6-dinitrophenol (DNBP)		4-(2 4-Dichlorophenoxy) butanoic acid		Aldrin		Alpha-BHC		alpha-Chlordane		Aroclor-1016		Aroclor-1221		Aroclor-1232		Aroclor-1242		Aroclor-1248	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
0.5 bgs	B16W91	ug/kg	18.0	U	180	U	1.80	U	1.80	U	1.80	U										
12.5 bgs	B16W93	ug/kg											50.0	U	50.0	U	50.0	U	50.0	U	50.0	U
12.5 bgs	B16W79	ug/kg											16.0	U	16.0	U	16.0	U	16.0	U	16.0	U
17.5 bgs	B16W80	ug/kg											16.0	U	16.0	U	16.0	U	16.0	U	16.0	U
17.5 bgs	B16W94	ug/kg											49.0	U	49.0	U	49.0	U	49.0	U	49.0	U
27.5 bgs	B16W81	ug/kg											16.0	U	16.0	U	16.0	U	16.0	U	16.0	U
27.5 bgs	B16W96	ug/kg											51.0	U	51.0	U	51.0	U	51.0	U	51.0	U
37.5 bgs	B16W82	ug/kg											16.0	U	16.0	U	16.0	U	16.0	U	16.0	U
37.5 bgs	B16W97	ug/kg											51.0	U	51.0	U	51.0	U	51.0	U	51.0	U
47.5 bgs	B16W83	ug/kg											16.0	U	16.0	U	16.0	U	16.0	U	16.0	U
47.5 bgs	B16W98	ug/kg											51.0	U	51.0	U	51.0	U	51.0	U	51.0	U
72.5 bgs	B16W84	ug/kg											16.0	U	16.0	U	16.0	U	16.0	U	16.0	U
97.5 bgs	B16W85	ug/kg											16.0	U	16.0	U	16.0	U	16.0	U	16.0	U
147.5 bgs	B16W86	ug/kg											16.0	U	16.0	U	16.0	U	16.0	U	16.0	U
197.5 bgs	B16W87	ug/kg											15.0	U	15.0	U	15.0	U	15.0	U	15.0	U
237 bgs	B16W88	ug/kg											15.0	U	15.0	U	15.0	U	15.0	U	15.0	U
272.5 bgs	B16W89	ug/kg																				
272.5 bgs	B16WB4	ug/kg											16.0	U	16.0	U	16.0	U	16.0	U	16.0	U
dup of B16W94	B16W95	ug/kg											48.0	U	48.0	U	48.0	U	48.0	U	48.0	U
equip blank tied to B16W93 & B16W79	B16WB8	ug/L																				
equip blank tied to B16W93 & B16W79	B16WC0	ug/L											0.11	U	0.11	U	0.11	U	0.11	U	0.11	U
Target Quantitation Limit		ug/kg											100		100		100		100		100	

Table B4-6. Miscellaneous Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Aroclor-1254		Aroclor-1260		Aroclor-1262		Aroclor-1268		beta-1 2 3 4 5 6-Hexachlorocyclohexane		Dalapon		Delta-BHC		Dicamba		Dichlorodiphenyl dichloroethane	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
0.5 bgs	B16W91	ug/kg									1.80	U	180	U	1.80	U	72.0	U	3.60	U
12.5 bgs	B16W93	ug/kg	50.0	U	50.0	U	50.0	U	50.0	U										
12.5 bgs	B16W79	ug/kg	16.0	U	16.0	U														
17.5 bgs	B16W80	ug/kg	16.0	U	16.0	U														
17.5 bgs	B16W94	ug/kg	49.0	U	49.0	U	49.0	U	49.0	U										
27.5 bgs	B16W81	ug/kg	16.0	U	16.0	U														
27.5 bgs	B16W96	ug/kg	51.0	U	51.0	U	51.0	U	51.0	U										
37.5 bgs	B16W82	ug/kg	16.0	U	16.0	U														
37.5 bgs	B16W97	ug/kg	51.0	U	51.0	U	51.0	U	51.0	U										
47.5 bgs	B16W83	ug/kg	16.0	U	16.0	U														
47.5 bgs	B16W98	ug/kg	51.0	U	51.0	U	51.0	U	51.0	U										
72.5 bgs	B16W84	ug/kg	16.0	U	16.0	U														
97.5 bgs	B16W85	ug/kg	16.0	U	16.0	U														
147.5 bgs	B16W86	ug/kg	16.0	U	16.0	U														
197.5 bgs	B16W87	ug/kg	15.0	U	15.0	U														
237 bgs	B16W88	ug/kg	15.0	U	15.0	U														
272.5 bgs	B16W89	ug/kg																		
272.5 bgs	B16WB4	ug/kg	16.0	U	16.0	U														
dup of B16W94	B16W95	ug/kg	48.0	U	48.0	U	48.0	U	48.0	U										
equip blank tied to B16W93 & B16W79	B16WB8	ug/L																		
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	0.11	U	0.11	U	0.11	U	0.11	U										
Target Quantitation Limit		ug/kg	100		100		100		100											

Table B4-6. Miscellaneous Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Dichlorodiphenyl dichloroethylene		Dichlorodiphenyl trichloroethane		Dichloro prop		Dieldrin		Diethyl ether			Endo sulfan II		Endo sulfan sulfate		Endrin aldehyde		Endrin ketone	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q	Result	Q
0.5 bgs	B16W91	ug/kg	3.60	U	3.60	U	180	U	3.60	U				3.60	U	3.60	U	3.60	U	3.60	U
12.5 bgs	B16W93	ug/kg									5000	U									
12.5 bgs	B16W79	ug/kg									28000	U									
17.5 bgs	B16W80	ug/kg									25000	U									
17.5 bgs	B16W94	ug/kg									5000	U									
27.5 bgs	B16W81	ug/kg									23000	U									
27.5 bgs	B16W96	ug/kg									5000	U									
37.5 bgs	B16W82	ug/kg									23000	U									
37.5 bgs	B16W97	ug/kg									5000	U									
47.5 bgs	B16W83	ug/kg									24000	U									
47.5 bgs	B16W98	ug/kg									5000	U									
72.5 bgs	B16W84	ug/kg									24000	U	J								
97.5 bgs	B16W85	ug/kg									24000	U									
147.5 bgs	B16W86	ug/kg									23000	U									
197.5 bgs	B16W87	ug/kg									26000	U									
237 bgs	B16W88	ug/kg									22000	U									
272.5 bgs	B16W89	ug/kg																			
272.5 bgs	B16WB4	ug/kg									24000	U									
dup of B16W94	B16W95	ug/kg									5000	U									
equip blank tied to B16W93 & B16W79	B16WB8	ug/L																			
equip blank tied to B16W93 & B16W79	B16WC0	ug/L									5000	U									
Target Quantitation Limit		ug/kg																			

Table B4-6. Miscellaneous Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			Ethylene glycol			Gamma-BHC (Lindane)		gamma-Chlordane		Heptachlor epoxide		Methanol			Methoxychlor		Oil and grease		TPH - diesel range	
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q
0.5 bgs	B16W91	ug/kg				1.80	U	1.80	U	1.80	U				18	U				
12.5 bgs	B16W93	ug/kg	5000	U								1000	U						4200	U
12.5 bgs	B16W79	ug/kg	25.5	U								28000	U				710000	U	12800	U
17.5 bgs	B16W80	ug/kg	23.5	U								25000	U				696000	U	12500	U
17.5 bgs	B16W94	ug/kg	5000	U								1000	U						4100	U
27.5 bgs	B16W81	ug/kg	26.0	U								23000	U				694000	U	12500	U
27.5 bgs	B16W96	ug/kg	5000	U								1000	U						4100	U
37.5 bgs	B16W82	ug/kg	25.5	U								23000	U				706000	U	12700	U
37.5 bgs	B16W97	ug/kg	5000	U								1000	U						4200	U
47.5 bgs	B16W83	ug/kg	24.0	U								24000	U				704000	U	12700	U
47.5 bgs	B16W98	ug/kg	5000	U								1000	U						4200	U
72.5 bgs	B16W84	ug/kg	27.5	U	J							24000	U	J			727000	U	13100	U
97.5 bgs	B16W85	ug/kg	23.5	U								24000	U				716000	U	12900	U
147.5 bgs	B16W86	ug/kg	24.0	U								23000	U				689000	U	12400	U
197.5 bgs	B16W87	ug/kg	21.0	U								26000	U				684000	U	12300	U
237 bgs	B16W88	ug/kg	25.0	U								22000	U				675000	U	12200	U
272.5 bgs	B16W89	ug/kg															685000	U		
272.5 bgs	B16WB4	ug/kg	21.0	U								24000	U						12500	U
dup of B16W94	B16W95	ug/kg	5000	U								1000	U						4100	U
equip blank tied to B16W93 & B16W79	B16WB8	ug/L															950	U		
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	5000	U								1000	U						280	U
Target Quantitation Limit		ug/kg	5000														200000		5000	

Table B4-6. Miscellaneous Organic Analysis Results for 216-A-37-1 Crib (C4106) Samples

			TPH - gasoline range			TPH - kerosene range		Toxaphene	
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Result	Q
0.5 bgs	B16W91	ug/kg						180	U
12.5 bgs	B16W93	ug/kg	100	U		4200	U		
12.5 bgs	B16W79	ug/kg	33.0	U		12800	U		
17.5 bgs	B16W80	ug/kg	30.0	U		12500	U		
17.5 bgs	B16W94	ug/kg	100	U		4100	U		
27.5 bgs	B16W81	ug/kg	30.0	U		12500	U		
27.5 bgs	B16W96	ug/kg	100	U		4100	U		
37.5 bgs	B16W82	ug/kg	33.0	U		12700	U		
37.5 bgs	B16W97	ug/kg	100	U		4200	U		
47.5 bgs	B16W83	ug/kg	30.0	U		12700	U		
47.5 bgs	B16W98	ug/kg	100	U		4200	U		
72.5 bgs	B16W84	ug/kg	30000	U	UR	13100	U		
97.5 bgs	B16W85	ug/kg	33000	U		12900	U		
147.5 bgs	B16W86	ug/kg	30000	U		12400	U		
197.5 bgs	B16W87	ug/kg	30000	U		12300	U		
237 bgs	B16W88	ug/kg	30000	U		12200	U		
272.5 bgs	B16W89	ug/kg							
272.5 bgs	B16WB4	ug/kg	29.0	U		12500	U		
dup of B16W94	B16W95	ug/kg	100	U		4100	U		
equip blank tied to B16W93 & B16W79	B16WB8	ug/L							
equip blank tied to B16W93 & B16W79	B16WC0	ug/L	50.0	U		280	U		
Target Quantitation Limit		ug/kg	5000			5000			

bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
J = Estimated
Q = Qualifier
R = Data rejected, minimum quality requirements not met
U = Undetected
Val Qual = Validation qualifier

Table B5-1. Radiochemical Analysis Results for 216-B-12 Crib (C3246) Samples

			Actinium-228			Americium-241			Antimony-125			Bismuth-212			Bismuth-214			
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual
14.5 bgs	B171B8	pCi/g																
35.5 bgs	B171B9	pCi/g	2.23	U	39.0	2.00		0.32	-20.9	U	71.0	-6.32	U	110	7.12	U	32.0	UJ
35.5 bgs	B171B9-B	pCi/g																
40 bgs	B171C0	pCi/g	1.00	U	2.90	0.027	U	0.21	2.81	U	15.0	0.06	U	7.00	-1.52	U	6.50	
40 bgs	B171C0-B	pCi/g																
50 bgs	B17216	pCi/g	4.48	U	18.0	0.14		0.10	-4.66	U	50.0	-0.367	U	52.0	16.6	U	22.0	
50 bgs	B17216-B	pCi/g																
62.5 bgs	B17217	pCi/g	1.26	U	10.0	0.14	U	0.15	7.16	U	35.0	11.1	U	30.0	-0.3	U	15.0	
62.5 bgs	B17217-B	pCi/g																
94.5 bgs	B17218	pCi/g	1.02		0.26	0.064	U	0.085	0.052	U	0.18	0.438	U	0.53	1.05		0.14	
94.5 bgs	B17218-B	pCi/g																
197.5 bgs	B161C2	pCi/g				-0.032	U	0.25										
247.5 bgs	B161C3	pCi/g				0.47		0.24										
302 bgs	B161C4	pCi/g				0	U	0.30										
dup of B17218	B171C1	pCi/g	0.67		0.08	0.026	U	0.10	-0	U	0.05	0.508		0.18	0.433		0.05	
dup of B17218-B	B171C1-B	pCi/g																
equip blank tied to B171B9, -A, -B	B171B1	pCi/L	5.08	U	25.00	0.081	U	0.17	2.79	U	20.0	-12.5	U	51.0	-59.9	U	20.0	
equip blank tied to B171B9, -A, -B	B171B3	pCi/L																
Target Quantitation Limit		pCi/g																

Table B5-1. Radiochemical Analysis Results for 216-B-12 Crib (C3246) Samples

			Carbon-14				Cerium-144			Cesium-134			Cesium-137			Cobalt-60			Europium-152		
Interval	HEIS	Units	Result	Q	MDA	Val Qual	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
14.5 bgs	B171B8	pCi/g	-0.02	U	2.70						U	0.23		U	0.14		U	0.14		U	0.34
35.5 bgs	B171B9	pCi/g					49.2	U	110	-2.33	U	14.0	61900		22.0	-0.188	U	4.80	-20.2	U	62.0
35.5 bgs	B171B9-B	pCi/g	1.86	U	2.20	UJ															
40 bgs	B171C0	pCi/g					5.73	U	19.0	0.224	U	0.93	3080		3.50	-0.146	U	0.30	-5.20	U	12.0
40 bgs	B171C0-B	pCi/g	1.51	U	2.00																
50 bgs	B17216	pCi/g					17.5	U	76.0	-0.947	U	6.90	31500		13.0	0.004	U	1.60	-0.04	U	43.0
50 bgs	B17216-B	pCi/g	1.15	U	2.00																
62.5 bgs	B17217	pCi/g					-2.35	U	48.0	-0.678	U	3.70	21300		8.80	0.77	U	0.77	11.6	U	30.0
62.5 bgs	B17217-B	pCi/g	3.30		2.40																
94.5 bgs	B17218	pCi/g					-0.17	U	0.42	0.037	U	0.084	0.003	U	0.079	0.009	U	0.086	-0.11	U	0.18
94.5 bgs	B17218-B	pCi/g	2.35	U	2.60																
197.5 bgs	B161C2	pCi/g	-0.588	U	2.00						U	0.11		U	0.081		U	0.093		U	0.19
247.5 bgs	B161C3	pCi/g	-0.273	U	2.60						U	0.064		U	0.049		U	0.12		U	0.11
302 bgs	B161C4	pCi/g	0.474	U	2.70						U	0.063		U	0.045		U	0.054		U	0.1
dup of B17218	B171C1	pCi/g					-0.047	U	0.13	0.025	U	0.03	0.002	U	0.024	0.016	U	0.03	-0.04	U	0.054
dup of B17218-B	B171C1-B	pCi/g	1.46	U	2.60																
equip blank tied to B171B9, -A, -B	B171B1	pCi/L					-6.20	U	46	-0.729	U	7.40	0.604	U	7.20	-1.91	U	7.00	-1.61	U	21.0
equip blank tied to B171B9, -A, -B	B171B3	pCi/L	-8.01	U	41.0																
Target Quantitation Limit		pCi/g	50.0										0.10			0.05			0.10		

Table B5-1. Radiochemical Analysis Results for 216-B-12 Crib (C3246) Samples

			Europium-154			Europium-155			Iodine-129			Lead-212			Lead-214				Neptunium-237		
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual	Result	Q	MDA
14.5 bgs	B171B8	pCi/g		U	0.42		U	0.26	-0.051	U	1.00								0.043	U	0.13
35.5 bgs	B171B9	pCi/g	-3.16	U	25.0	34.9		55.0				15.5	U	34.0	-8.19	U	46.0	UJ			
35.5 bgs	B171B9-B	pCi/g							0.544	U	1.20								0	U	12
40 bgs	B171C0	pCi/g	0.143	U	2.20	-2.36	U	8.80				1.16	U	6.5	-0.162	U	9.10				
40 bgs	B171C0-B	pCi/g							0.059	U	1.40								0.048		0.014
50 bgs	B17216	pCi/g	-2.61	U	12.0	-3.74	U	38.0				12.3	U	24.0	-7.00	U	32.0				
50 bgs	B17216-B	pCi/g							-0.121	U	1.20								0.323	U	0.97
62.5 bgs	B17217	pCi/g	-2.53	U	6.10	-3.84	U	23.0				-8.86	U	16.0	12.7	U	22.0				
62.5 bgs	B17217-B	pCi/g							-0.123	U	1.50								0.26	U	2.0
94.5 bgs	B17218	pCi/g	-0.065	U	0.22	0.282		0.23				0.718		0.11	1.08		0.14				
94.5 bgs	B17218-B	pCi/g							0.362	U	0.96								0.056	U	0.17
197.5 bgs	B161C2	pCi/g		U	0.3		U	0.18	0.042	U	1.20								0.008	U	0.043
247.5 bgs	B161C3	pCi/g		U	0.18		U	0.11	-0.113	U	1.10								0.031	U	0.093
302 bgs	B161C4	pCi/g		U	0.15		U	0.092	-0.007	U	1.30								0	U	0.13
dup of B17218	B171C1	pCi/g	0.008	U	0.09	0.02	U	0.075				0.63		0.03	0.504		0.04				
dup of B17218-B	B171C1-B	pCi/g							-0.361	U	1.20								0.216	U	0.22
equip blank tied to B171B9, -A, -B	B171B1	pCi/L	-0.04	U	19.0	-7.15	U	22.0				4.79	U	14	-63.7	U	20.0				
equip blank tied to B171B9, -A, -B	B171B3	pCi/L							1.56	U	5.70								0.025	U	0.095
Target Quantitation Limit		pCi/g	0.10			0.10			2.00										1.00		

Table B5-1. Radiochemical Analysis Results for 216-B-12 Crib (C3246) Samples

			Nickel-63			Niobium-94			Plutonium-238			Plutonium-239/240			Potassium-40			Radium-226[a]			
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual
14.5 bgs	B171B8	pCi/g	0.061	U	2.20				0	U	0.29	0	U	0.29	14.2		1.40	0.708		0.24	
35.5 bgs	B171B9	pCi/g				0.916	U	14.0	-0.12	U	0.32	3.90		0.077				7.12	U	32.0	UJ
35.5 bgs	B171B9-B	pCi/g	33.2	U	93.0																
40 bgs	B171C0	pCi/g				0.025	U	0.92	0.014	U	0.20	0.036	U	0.053				-1.52	U	6.50	
40 bgs	B171C0-B	pCi/g	3.2	U	4.70																
50 bgs	B17216	pCi/g				-2.77	U	6.40	-0.14	U	0.26	0.20		0.024				16.6	U	22.0	
50 bgs	B17216-B	pCi/g	-1.17	U	18.0																
62.5 bgs	B17217	pCi/g				1.48	U	3.90	-0.009	U	0.11	0.009	U	0.069				-0.297	U	15.0	
62.5 bgs	B17217-B	pCi/g	5.62	U	19.0																
94.5 bgs	B17218	pCi/g				-0.032	U	0.07	-0.017	U	0.14	0.008	U	0.09				1.05		0.14	
94.5 bgs	B17218-B	pCi/g	0.078	U	2.10																
197.5 bgs	B161C2	pCi/g	-0.738	U	2.30				0	U	0.21	0.083	U	0.21	15.8		0.83	0.383		0.17	
247.5 bgs	B161C3	pCi/g	1.05	U	2.40				0.025	U	0.19	0	U	0.19	15.0		0.53	0.383		0.078	
302 bgs	B161C4	pCi/g	-0.373	U	2.30				0	U	0.18	0.024	U	0.18	14.4		0.47	0.567		0.09	
dup of B17218	B171C1	pCi/g				0.001	U	0.02	0.008	U	0.25	0.016	U	0.059				0.433		0.045	
dup of B17218-B	B171C1-B	pCi/g	-0.077	U	2.10																
equip blank tied to B171B9, -A, -B	B171B1	pCi/L				1.55	U	6.90	0.096	U	0.12	0.048		0.013				0.042[b]		0.026	
equip blank tied to B171B9, -A, -B	B171B3	pCi/L	-0.523	U	2.00																
Target Quantitation Limit		pCi/g	30.0						1.00			1.00						0.10			

Table B5-1. Radiochemical Analysis Results for 216-B-12 Crib (C3246) Samples

			Radium-228			Ruthenium-103			Ruthenium-106			Technetium-99			Thallium-208				Thorium-228		
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual	Result	Q	MDA
14.5 bgs	B171B8	pCi/g		U	1.10							0.123	U	0.57					0.584		0.20
35.5 bgs	B171B9	pCi/g	2.23	U	39.0	-2.03	U	24	-16.1	U	150				2.95	U	18.0	UJ			
35.5 bgs	B171B9-B	pCi/g										0.299	U	0.49					7.54		1.90
40 bgs	B171C0	pCi/g	1.00	U	2.90	1.62	U	4.80	-10.7	U	30.0				1.31	U	3.60				
40 bgs	B171C0-B	pCi/g										0.115	U	0.57					0.664		0.40
50 bgs	B17216	pCi/g	4.48	U	18.0	-0.761	U	16	30.9	U	100				-0.73	U	12.0				
50 bgs	B17216-B	pCi/g										0.116	U	0.48					0.971		0.82
62.5 bgs	B17217	pCi/g	1.26	U	10.0	1.77	U	12	22.3	U	73.0				3.36	U	8.30				
62.5 bgs	B17217-B	pCi/g										0.304	U	0.48					0.906		0.87
94.5 bgs	B17218	pCi/g	1.02		0.26	0.016	U	0.07	0.138	U	0.63				0.295		0.064				
94.5 bgs	B17218-B	pCi/g										0.094	U	0.40					0.49		0.21
197.5 bgs	B161C2	pCi/g	0.584		0.28							0.362	U	0.62					0.398		0.13
247.5 bgs	B161C3	pCi/g	0.69		0.23							0.192	U	0.55					0.66		0.14
302 bgs	B161C4	pCi/g	0.816		0.24							0.083	U	0.57					0.307		0.12
dup of B17218	B171C1	pCi/g	0.668		0.077	-0.004	U	0.02	-0.04	U	0.20				0.173		0.021				
dup of B17218-B	B171C1-B	pCi/g										0.123	U	0.55					0.517		0.20
equip blank tied to B171B9, -A, -B	B171B1	pCi/L	5.08	U	25.0	-1.60	U	6.70	41.1	U	70.0				-2.01	U	6.80				
equip blank tied to B171B9, -A, -B	B171B3	pCi/L										2.52	U	3.60					0	U	0.15
Target Quantitation Limit		pCi/g	0.20									15.0									

Table B5-1. Radiochemical Analysis Results for 216-B-12 Crib (C3246) Samples

			Thorium-230			Thorium-232			Thorium-234			Tin-113			Tin-126			Total beta radiostrontium		
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
14.5 bgs	B171B8	pCi/g	1.19		0.20	0.716		0.20							0.742		0.17	0.125	U	0.28
35.5 bgs	B171B9	pCi/g							148	U	680	6.99	U	30	10.4	U	11.0			
35.5 bgs	B171B9-B	pCi/g	3.15	U	5.40	-0.243	U	1.90										12700		28.0
40 bgs	B171C0	pCi/g							16.2	U	120	0.736	U	5.90	3.45	U	4.00			
40 bgs	B171C0-B	pCi/g	0.905		0.29	0.452		0.23										45.9		1.30
50 bgs	B17216	pCi/g							29.7	U	480	-0.179	U	21.0	-3.56	U	26.0			
50 bgs	B17216-B	pCi/g	0.754	U	$1.00	0.215	U	0.82										97.1		6.60
62.5 bgs	B17217	pCi/g							51.8	U	260	2.80	U	14.0	2.77	U	15.0			
62.5 bgs	B17217-B	pCi/g	0.679	U	0.87	0.453	U	0.87										12.5		6.70
94.5 bgs	B17218	pCi/g							2.02	U	3.3	0.027	U	0.09	0.027	U	0.18			
94.5 bgs	B17218-B	pCi/g	0.789		0.21	0.544		0.21										31.2		0.31
197.5 bgs	B161C2	pCi/g	0.19	U	0.31	0.432		0.13								U	0.12	-0.014	U	0.34
247.5 bgs	B161C3	pCi/g	0.801		0.32	0.409		0.14								U	0.071	0.003	U	0.35
302 bgs	B161C4	pCi/g	0.805		0.29	0.564		0.12								U	0.07	0.022	U	0.35
dup of B17218	B171C1	pCi/g							2.01		1.1	-0.008	U	0.02	0.094	U	0.10			
dup of B17218-B	B171C1-B	pCi/g	0.929		0.25	0.671		0.20										31.8		0.32
equip blank tied to B171B9, -A, -B	B171B1	pCi/L							11.2	U	250	2.24	U	9.50	-1.62	U	14.0			
equip blank tied to B171B9, -A, -B	B171B3	pCi/L	0.115	U	0.15	0.019	U	0.15										-0.044	U	0.69
Target Quantitation Limit		pCi/g				1.00												1.00		

Table B5-1. Radiochemical Analysis Results for 216-B-12 Crib (C3246) Samples

			Tritium				Uranium-233/234			Uranium-234			Uranium-235			Uranium-238		
Interval	HEIS	Units	Result	Q	MDA	Val Qual	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
14.5 bgs	B171B8	pCi/g	8.28		0.27		0.605		0.17				0.027	U	0.21	0.628		0.17
35.5 bgs	B171B9	pCi/g					4.70		0.063	4.70		0.063	0.26		0.069	4.70		0.023
35.5 bgs	B171B9-B	pCi/g	2.62		2.20	J												
40 bgs	B171C0	pCi/g					4.90		0.053	4.90		0.053	0.32		0.021	5.10		0.02
40 bgs	B171C0-B	pCi/g	1.56	U	2.10													
50 bgs	B17216	pCi/g					1.80		0.066	1.80		0.066	0.14		0.072	1.80		0.024
50 bgs	B17216-B	pCi/g	1.66	U	2.20													
62.5 bgs	B17217	pCi/g					0.74		0.069	0.74		0.069	0.041		0.028	0.69		0.087
62.5 bgs	B17217-B	pCi/g	0.992	U	2.40													
94.5 bgs	B17218	pCi/g					1.80		0.11	1.80		0.11	0.15		0.027	1.70		0.067
94.5 bgs	B17218-B	pCi/g	5.31		0.26													
197.5 bgs	B161C2	pCi/g	7.51		0.25		1.10		0.13				0.042	U	0.16	0.996		0.13
247.5 bgs	B161C3	pCi/g	5.20		0.30		0.358		0.14				0.022	U	0.17	0.43		0.14
302 bgs	B161C4	pCi/g	7.59		0.23		0.308		0.13				0.021	U	0.16	0.53		0.13
dup of B17218	B171C1	pCi/g					2.00		0.067	2.00		0.067	0.12		0.027	2.00		0.025
dup of B17218-B	B171C1-B	pCi/g	4.95		0.27													
equip blank tied to B171B9, -A, -B	B171B1	pCi/L					0.035	U	0.041				0.029		0.013	0.035		0.033
equip blank tied to B171B9, -A, -B	B171B3	pCi/L	77.2	U	190													
Target Quantitation Limit		pCi/g	400				1.00			1.00			1.00			1.00		

Table B5-1. Radiochemical Analysis Results for 216-B-12 Crib (C3246) Samples

			Uranium C					Zinc-65		
Interval	HEIS	Units	Result	Q	MDA	Units	Val Qual	Result	Q	MDA
14.5 bgs	B171B8	pCi/g	445		4.00	ug/kg				
35.5 bgs	B171B9	pCi/g	28000			ug/kg	J	6.25	U	20.0
35.5 bgs	B171B9-B	pCi/g								
40 bgs	B171C0	pCi/g	26100			ug/kg		-0.43	U	1.30
40 bgs	B171C0-B	pCi/g								
50 bgs	B17216	pCi/g	6950			ug/kg		2.07	U	9.40
50 bgs	B17216-B	pCi/g								
62.5 bgs	B17217	pCi/g	2770			ug/kg		0.012	U	5.20
62.5 bgs	B17217-B	pCi/g								
94.5 bgs	B17218	pCi/g	7510			ug/kg		0.091	U	0.16
94.5 bgs	B17218-B	pCi/g								
197.5 bgs	B161C2	pCi/g	2890		42.0	ug/kg				
247.5 bgs	B161C3	pCi/g	342		4.00	ug/kg				
302 bgs	B161C4	pCi/g	334		4.00	ug/kg				
dup of B17218	B171C1	pCi/g	8060			ug/kg		0.018	U	0.064
dup of B17218-B	B171C1-B	pCi/g								
equip blank tied to B171B9, -A, -B	B171B1	pCi/L	0.125	U		ug/L		-11.5	U	14.0
equip blank tied to B171B9, -A, -B	B171B3	pCi/L	-0.004	U	0.018	ug/L				
Target Quantitation Limit		pCi/g	1000							

a. Gamma results, except as noted

b. RAISO AEA result was used because it was the higher result and is more appropriate.

c. Total Uranium reported in mass, ug/kg

AEA = Alpha energy analysis

bgs = Below ground surface

dup = Duplicate

HEIS = Hanford Environmental Information System

J = Estimated

MDA = Minimum detectable activity

Q = Qualifier

RAISO = Radium alpha spectroscopy analysis

U = Undetected

UJ = Undetected, detection limit is estimated

Val Qual = Validation qualifier

Table B5-2. Metal Analysis Results for 216-B-12 Crib (C3246) Samples

			Aluminum			Antimony			Arsenic			Barium			Beryllium		
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual
14.5 bgs	B171B8	ug/kg				380			7300			82300			330		
35.5 bgs	B171B9	ug/kg	6420000	E	J	2360	U	UJ	3740		J	28200		J	1420	U	UJ
40 bgs	B171C0	ug/kg	11300000	E		2480	U		6120			53400			1490	U	
50 bgs	B17216	ug/kg	8660000	E		2480	U		2970			56900			1490	U	
62.5 bgs	B17217	ug/kg	8780000	E		2440	U		3850			69900			1470	U	
94.5 bgs	B17218	ug/kg	9850000	E		2460	U		5050			79000			1480	U	
197.5 bgs	B161C2	ug/kg				220			2300			52300			120		
247.5 bgs	B161C3	ug/kg				260			2100			63600			220		
302 bgs	B161C4	ug/kg				650			2000			93800			180		
dup of B17218	B171C1	ug/kg	10100000	E		2490	U		5730			73000			1490	U	
equip blank tied to B171B9, -A, -B	B171B1	ug/L	13.8	U		0.625	U		0.375	U		0.25	U		0.375	U	
Target Quantitation Limit		ug/kg				6000			10000			20000			500		

Table B5-2. Metal Analysis Results for 216-B-12 Crib (C3246) Samples

			Bismuth			Boron		Cadmium			Chromium			Cobalt			Copper		
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual
14.5 bgs	B171B8	ug/kg	450	U		1300		80.0			7100						14100		
35.5 bgs	B171B9	ug/kg	4410	U	UJ	4500	U	473	U	UJ	6940		J	3800		J	5920		J
40 bgs	B171C0	ug/kg	4920	U		5020	U	496	U		11200			7240			10900		
50 bgs	B17216	ug/kg	4280	U		4360	U	497	U		10000			5980			9630		
62.5 bgs	B17217	ug/kg	4760	U		4850	U	489	U		12300			6000			11200		
94.5 bgs	B17218	ug/kg	4850	U		4950	U	493	U		11400			5600			10700		
197.5 bgs	B161C2	ug/kg	470	U		1000		40.0	U		11200						13000		
247.5 bgs	B161C3	ug/kg	410	U		800		50.0			10800						11600		
302 bgs	B161C4	ug/kg	340	U		750		30.0	U		30400						16600		
dup of B17218	B171C1	ug/kg	4830	U		4920	U	498	U		16400			5740			8760		
equip blank tied to B171B9, -A, -B	B171B1	ug/L	100	U		102	U	0.125	U		0.375	U		0.25	U		1.18		
Target Quantitation Limit		ug/kg						500			1000						2500		

Table B5-2. Metal Analysis Results for 216-B-12 Crib (C3246) Samples

			Hexavalent Chromium		Lead			Manganese			Mercury			Molybdenum			Nickel		
Interval	HEIS	Units	Result	Q	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual
14.5 bgs	B171B8	ug/kg	421	U	6100						20.0	U					8500		
35.5 bgs	B171B9	ug/kg	54.0	U	5680	U	UJ	139000		J	1310		J	1420	U	UJ	5480		J
40 bgs	B171C0	ug/kg	54.0	U	5950	U		295000			496	U		1490	U		12300		
50 bgs	B17216	ug/kg	54.0	U	5960	U		284000			497	U		1490	U		8620		
62.5 bgs	B17217	ug/kg	54.0	U	5870	U		310000			489	U		1470	U		14500		
94.5 bgs	B17218	ug/kg	54.0	U	5920	U		318000			493	U		1480	U		12000		
197.5 bgs	B161C2	ug/kg	410	U	2800						20.0	U					11200		
247.5 bgs	B161C3	ug/kg	410	U	2700						20.0	U					10100		
302 bgs	B161C4	ug/kg	420	U	4700						20.0						10900		
dup of B17218	B171C1	ug/kg	54.0	U	5980	U		266000			498	U		1490	U		12200		
equip blank tied to B171B9, -A, -B	B171B1	ug/L	2.00	U	1.50	U		1.04			0.13	U		0.375	U		7.38		
Target Quantitation Limit		ug/kg	500		10000						200						4000		

Table B5-2. Metal Analysis Results for 216-B-12 Crib (C3246) Samples

			Selenium			Silver			Thallium			Thorium			Vanadium		
Interval	HEIS	Units	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual
14.5 bgs	B171B8	ug/kg	370	U		110	U										
35.5 bgs	B171B9	ug/kg	1420	U	UJ	946	UE	UR	473	U	UJ	3460		J	45400		J
40 bgs	B171C0	ug/kg	1490	U		992	UE		496	U		4440			44900		
50 bgs	B17216	ug/kg	1490	U		2410	E		497	U		5420			44800		
62.5 bgs	B17217	ug/kg	1470	U		978	UE		489	U		4290			37500		
94.5 bgs	B17218	ug/kg	1480	U		986	UE		493	U		4050			38400		
197.5 bgs	B161C2	ug/kg	390	U		110	U										
247.5 bgs	B161C3	ug/kg	340	U		100	U										
302 bgs	B161C4	ug/kg	280	U		80.0	U										
dup of B17218	B171C1	ug/kg	1490	U		996	UE		498	U		5430			38300		
equip blank tied to B171B9, -A, -B	B171B1	ug/L	0.375	U		0.25	U		0.125	U		0.25	U		0.50	U	
Target Quantitation Limit		ug/kg	10000			2000											

Table B5-2. Metal Analysis Results for 216-B-12 Crib (C3246) Samples

			Zinc		
Interval	HEIS	Units	Result	Q	Val Qual
14.5 bgs	B171B8	ug/kg			
35.5 bgs	B171B9	ug/kg	25400		J
40 bgs	B171C0	ug/kg	43100		
50 bgs	B17216	ug/kg	33600		
62.5 bgs	B17217	ug/kg	31800		
94.5 bgs	B17218	ug/kg	35000		
197.5 bgs	B161C2	ug/kg			
247.5 bgs	B161C3	ug/kg			
302 bgs	B161C4	ug/kg			
dup of B17218	B171C1	ug/kg	32100		
equip blank tied to B171B9, -A, -B	B171B1	ug/L	30.0		
Target Quantitation Limit		ug/kg			

bgs = Below ground surface
dup = Duplicate
E = Estimated
HEIS = Hanford Environmental Information System
Q = Qualifier
R = Data rejected, minimum quality requirements not met
U = Undetected
UJ = Undetected, detection limit is estimated
Val Qual = Validation qualifier

Table B5-3. General Inorganic Analysis Results for 216-B-12 Crib (C3246) Samples

			Ammonia as N		Bromide		Chloride		Cyanide		Fluoride		Nitrate in N		Nitrite in N		Nitrogen in Nitrite and Nitrate	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B171B8	ug/kg	6500	U			7330		479	U	1320	U	13000		401	U	16200	D
35.5 bgs	B171B9	ug/kg	253000		22500	U	12400		200	U	3500	U	165000		4500	U	115000	
35.5 bgs	B171B9-A	ug/kg															115000	
40 bgs	B171C0	ug/kg	314000		22500	U	23400		190	U	3500	U	2500	U	4500	U	1000	
40 bgs	B171C0-A	ug/kg															1000	
50 bgs	B17216	ug/kg	196000		22500	U	19800		190	U	3500	U	136000		4500	U	126000	
50 bgs	B17216-A	ug/kg															126000	
62.5 bgs	B17217	ug/kg	334000		22500	U	7000	U	200	U	3500	U	121000		4500	U	100000	
62.5 bgs	B17217-A	ug/kg															100000	
94.5 bgs	B171M8	%																
94.5 bgs	B17218	ug/kg	251000		22500	U	7000	U	200	U	3500	U	17200		4500	U	26200	
94.5 bgs	B17218-A	ug/kg															26200	
197.5 bgs	B161C2	ug/kg	4800	U			1300	U	340	U	1300	U	14000	D	389	U	15400	D
247.5 bgs	B161C3	ug/kg	4900	U			1300	U	490	U	1300	U	10100		392	U	10400	
302 bgs	B161C4	ug/kg	6100	U			2100		420	U	1300	U	6050		395	U	9000	
302 bgs	B171M9	%																
dup of B17218	B171C1	ug/kg	404000		22500	U	7000	U	200	U	3500	U	12000		4500	U	15500	
dup of B17218-A	B171C1-A	ug/kg															15500	
equip blank tied to B171B9, -A, -B	B171B1	ug/L			45.0	U	14.0	U	4.00	U	7.00	U	5.00	U	9.00	U		
equip blank tied to B171B9, -A, -B	B171B3	ug/L	100	U													20.0	U
Target Quantitation Limit		ug/kg	500				2000		500		5000		2500		2500			

Table B5-3. General Inorganic Analysis Results for 216-B-12 Crib (C3246) Samples

			Percent moisture (dry sample)		Percent moisture (wet sample)		Percent Solids		pH Measurement				Phos phate		Sulfate	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Units	Q	Val Qual	Result	Q	Result	Q
14.5 bgs	B171B8	ug/kg							9.09	pH			1320	U	467000	D
35.5 bgs	B171B9	ug/kg							8.42	pH		J	6500	U	647000	
35.5 bgs	B171B9-A	ug/kg														
40 bgs	B171C0	ug/kg							9.11	pH			6500	U	12000	U
40 bgs	B171C0-A	ug/kg														
50 bgs	B17216	ug/kg							8.80	pH			6500	U	18100	
50 bgs	B17216-A	ug/kg														
62.5 bgs	B17217	ug/kg							8.74	pH			6500	U	32100	
62.5 bgs	B17217-A	ug/kg														
94.5 bgs	B171M8	%	2.50		2.60		97.5									
94.5 bgs	B17218	ug/kg							8.99	pH			6500	U	19000	
94.5 bgs	B17218-A	ug/kg														
197.5 bgs	B161C2	ug/kg							8.70	pH			1300	U	6800	
247.5 bgs	B161C3	ug/kg							9.00	pH			1300	U	13000	
302 bgs	B161C4	ug/kg							9.00	pH			1300	U	23300	
302 bgs	B171M9	%	2.80		2.90		97.2									
dup of B17218	B171C1	ug/kg							9.04	pH			6500	U	12000	U
dup of B17218-A	B171C1-A	ug/kg														
equip blank tied to B171B9, -A, -B	B171B1	ug/L											13.0	U	24.0	U
equip blank tied to B171B9, -A, -B	B171B3	ug/L														
Target Quantitation Limit		ug/kg											5000		5000	

bgs = Below ground surface
D = Sample reanalyzed at higher dilution factor
dup = Duplicate
HEIS = Hanford Environmental Information System
J = Estimated
Q = Qualifier
U = Undetected

Table B5-4. Volatile Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			1 1 1-Trichloro ethane		1 1 2 2-Tetrachloro ethane		1 1 2-Trichloro ethane		1 1-Dichloro ethane		1 1-Dichloro ethene		1 2-Dichloro ethane		1 2-Dichloro ethene(Total)		1 2-Dichloro propane		1-Butanol	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
35.5 bgs	B171B9	ug/kg	21.0	U	21.0	U	21.0	U	**21.0**	**U**	21.0	U	21.0	U	21.0	U	21.0	U		
40 bgs	B171C0	ug/kg	20.0	U	20.0	U	20.0	U	**20.0**	U	20.0	U	20.0	U	20.0	U	20.0	U		
equip blank tied to B171B9, -A, -B	B171B1	ug/L	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	20.00	U
trip blank tied to B161C2	B172K2	ug/L	5.00	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00	U	5.00	U		
Target Quantitation Limit		ug/kg	5.00						10.0				5.00		10.0				5000	

Table B5-4. Volatile Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			2-Butanone		2-Hexanone		2-Pentanone		4-Methyl-2-Pentanone		Acetone		Benzene		Bromodichloromethane		Bromoform		Bromomethane		Carbon disulfide	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
35.5 bgs	B171B9	ug/kg	21.0	U	21.0	U			21.0	U	21.0	U	21.0	U	21.0	U	21.0	U	21.0	U	21.0	U
40 bgs	B171C0	ug/kg	20.0	U	20.0	U			20.0	U	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U
equip blank tied to B171B9, -A, -B	B171B1	ug/L	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U
trip blank tied to B161C2	B172K2	ug/L	10.0	U	10.0	U			10.0	U	10.0	U	5.00	U	5.00	U	5.00	U	10.0	U	5.00	U
Target Quantitation Limit		ug/kg	10.0						10.0		20.0		5.00									

Table B5-4. Volatile Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			Carbon tetra chloride		Chloro benzene		Chloro ethane		Chloro form		Chlorom ethane		cis-1 3-Dichloro propene		Dibromochloro methane		Ethylben zene		Hexamethylcyclo trisiloxane	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
35.5 bgs	B171B9	ug/kg	21.0	U	21.0	U	21.0	U	21.0	U	21.0	U	21.0	U	21.0	U	21.0	U		
40 bgs	B171C0	ug/kg	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U	140	JN
equip blank tied to B171B9, -A, -B	B171B1	ug/L	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U		
trip blank tied to B161C2	B172K2	ug/L	5.00	U	5.00	U	10.0	U	5.00	U	10.0	U	5.00	U	5.00	U	5.00	U		
Target Quantitation Limit		ug/kg	5.00		5.00				5.00								5.00			

Table B5-4. Volatile Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			Methylene chloride		n-Butyl benzene		Styrene		Tetrachloro ethene		Toluene		trans-1 3-Dichloro propene		Trichloro ethene		Vinyl chloride		Xylenes (total)	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
35.5 bgs	B171B9	ug/kg	20.0	U			21.0	U	21.0	U	21.0	U	21.0	U	21.0	U	21.0	U	21.0	U
40 bgs	B171C0	ug/kg	20.0	U			20.0	U	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U	20.0	U
equip blank tied to B171B9, -A, -B	B171B1	ug/L	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U
trip blank tied to B161C2	B172K2	ug/L	5.00	U	5.00	U	5.00	U	5.00	U	1.00	UB	5.00	U	5.00	U	10.0	U	5.00	U
Target Quantitation Limit		ug/kg	5.00		5.00				5.00		5.00				5.00				5.00	

bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
Q = Qualifier
U = Undetected

Table B5-5. Semi-Volatile Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			1 2 4-Trichloro benzene		1 2-Dichloro benzene		1 3-Dichloro benzene		1 4-Dichloro benzene		2 4 5-Trichloro phenol		2 4 6-Trichloro phenol		2 4 6-Trimethyl pyridine		2 4-Dichloro phenol	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B171B8	ug/kg	350	U	350	U	350	U	350	U	880	U	350	U			350	U
35.5 bgs	B171B9	ug/kg	1500	U	1900	U	1700	U	1600	U	380	U	350	U	3500	JN	420	U
40 bgs	B171C0	ug/kg	1400	U	1800	U	1600	U	1500	U	360	U	320	U	1300	JN	390	U
50 bgs	B17216	ug/kg	1500	U	1800	U	1600	U	1600	U	370	U	330	U	1400	JN	400	U
62.5 bgs	B17217	ug/kg	1500	U	1900	U	1700	U	1600	U	380	U	340	U			410	U
94.5 bgs	B17218	ug/kg	1500	U	1800	U	1600	U	1600	U	370	U	340	U			400	U
197.5 bgs	B161C2	ug/kg	340	U	340	U	340	U	340	U	850	U	340	U			340	U
247.5 bgs	B161C3	ug/kg	340	U	340	U	340	U	340	U	860	U	340	U			340	U
302 bgs	B161C4	ug/kg	350	U	350	U	350	U	350	U	860	U	350	U			350	U
dup of B17218	B171C1	ug/kg	1400	U	1700	U	1500	U	1500	U	340	U	310	U			370	U
equip blank tied to B171B9, -A, -B	B171B1	ug/L	3.50	U	4.90	U	6.00	U	5.80	U	2.20	U	2.80	U			1.60	U

Table B5-5. Semi-Volatile Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			2 4-Dimethyl phenol		2 4-Dinitro phenol		2 4-Dinitro toluene		2 6-Dinitro toluene		2-Butoxy ethanol		2-Chloro naphthalene		2-Chloro phenol		2-Methyl naphthalene		2-Methyl phenol (cresol o-)	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B171B8	ug/kg	350	U	880	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
35.5 bgs	B171B9	ug/kg	350	U	3500	U	350	U	350	U			420	U	760	U	930	U	350	U
40 bgs	B171C0	ug/kg	320	U	3200	U	320	U	320	U			390	U	710	U	880	U	320	U
50 bgs	B17216	ug/kg	330	U	3300	U	330	U	330	U	500	U	400	U	730	U	900	U	330	U
62.5 bgs	B17217	ug/kg	340	U	3400	U	340	U	340	U	520	U	410	U	760	U	930	U	340	U
94.5 bgs	B17218	ug/kg	340	U	3400	U	340	U	340	U	500	U	400	U	740	U	910	U	340	U
197.5 bgs	B161C2	ug/kg	340	U	850	U	340	U	340	U	340	U	340	U	340	U	340	U	340	U
247.5 bgs	B161C3	ug/kg	340	U	860	U	340	U	340	U	340	U	340	U	340	U	340	U	340	U
302 bgs	B161C4	ug/kg	350	U	860	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
dup of B17218	B171C1	ug/kg	310	U	3100	U	310	U	310	U	470	U	370	U	690	U	840	U	310	U
equip blank tied to B171B9, -A, -B	B171B1	ug/L	5.00	U	3.80	U	2.10	U	2.60	U	3.60	U	2.70	U	2.00	U	2.20	U	2.70	U

Table B5-5. Semi-Volatile Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			2-Nitro aniline		2-Nitro phenol		3 3'-Dichloro benzidine		3+4 Methyl phenol (cresol m+p)		3-Nitro aniline		3-Penten-2-one (E)-		4 6-Dinitro-2-methyl phenol		4-Bromophenyl phenyl ether	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B171B8	ug/kg	880	U	350	U	350	U			880	U			880	U	350	U
35.5 bgs	B171B9	ug/kg	350	U	900	U	420	U	590	U	350	U			3500	U	350	U
40 bgs	B171C0	ug/kg	320	U	840	U	390	U	550	U	320	U	830	J	3200	U	320	U
50 bgs	B17216	ug/kg	330	U	870	U	400	U	570	U	330	U			3300	U	330	U
62.5 bgs	B17217	ug/kg	340	U	900	U	410	U	590	U	340	U			3400	U	340	U
94.5 bgs	B17218	ug/kg	340	U	870	U	400	U	570	U	340	U			3400	U	340	U
197.5 bgs	B161C2	ug/kg	850	U	340	U	340	U			850	U			850	U	340	U
247.5 bgs	B161C3	ug/kg	860	U	340	U	340	U			860	U			860	U	340	U
302 bgs	B161C4	ug/kg	860	U	350	U	350	U			860	U			860	U	350	U
dup of B17218	B171C1	ug/kg	310	U	810	U	370	U	530	U	310	U			3100	U	310	U
equip blank tied to B171B9, -A, -B	B171B1	ug/L	2.40	U	2.30	U	4.80	U	3.70	U	5.20	U			2.00	U	2.20	U

Table B5-5. Semi-Volatile Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			4-Chloro-3 - methylphenol		4-Chloro aniline		4-Chloro phenylphenyl ether		4-Methyl phenol (cresol p-)		4-Nitro aniline		4-Nitro phenol		6- Tridecene (E)-		Acenaph thene		Acenaph thylene	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B171B8	ug/kg	350	U	350	U	350	U	350	U	880	U	880	U			350	U	350	U
35.5 bgs	B171B9	ug/kg	350	U	480	U	350	U			1300	U	3400	U	5100	JN	350	U	420	U
40 bgs	B171C0	ug/kg	320	U	450	U	320	U			1200	U	3100	U			320	U	390	U
50 bgs	B17216	ug/kg	330	U	470	U	330	U			1200	U	3200	U			330	U	400	U
62.5 bgs	B17217	ug/kg	340	U	480	U	340	U			1300	U	3300	U			340	U	410	U
94.5 bgs	B17218	ug/kg	340	U	470	U	340	U			1200	U	3300	U			340	U	400	U
197.5 bgs	B161C2	ug/kg	340	U	340	U	340	U	340	U	850	U	850	U			340	U	340	U
247.5 bgs	B161C3	ug/kg	340	U	340	U	340	U	340	U	860	U	860	U			340	U	340	U
302 bgs	B161C4	ug/kg	350	U	350	U	350	U	350	U	860	U	860	U			350	U	350	U
dup of B17218	B171C1	ug/kg	310	U	440	U	310	U			1200	U	3000	U			310	U	370	U
equip blank tied to B171B9, -A, -B	B171B1	ug/L	1.50	U	8.40	U	2.60	U			3.40	U	1.60	U			2.80	U	2.70	U

Table B5-5. Semi-Volatile Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			Anthracene		Benzo(a) anthracene		Benzo(a) pyrene		Benzo(b)fluoranthene		Benzo(ghi) perylene		Benzo(k)fluoranthene		Benzyl alcohol		Bis(2-chloro-1-methylethyl) ether	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B171B8	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
35.5 bgs	B171B9	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U			1300	U
40 bgs	B171C0	ug/kg	320	U	320	U	320	U	320	U	320	U	320	U			1200	U
50 bgs	B17216	ug/kg	330	U	330	U	330	U	330	U	330	U	330	U			1300	U
62.5 bgs	B17217	ug/kg	340	U	340	U	340	U	340	U	340	U	340	U			1300	U
94.5 bgs	B17218	ug/kg	340	U	340	U	340	U	340	U	340	U	340	U			1300	U
197.5 bgs	B161C2	ug/kg	340	U	340	U	340	U	340	U	340	U	340	U	340	U	340	U
247.5 bgs	B161C3	ug/kg	340	U	340	U	340	U	340	U	340	U	340	U	340	U	340	U
302 bgs	B161C4	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
dup of B17218	B171C1	ug/kg	310	U	310	U	310	U	310	U	310	U	310	U			1200	U
equip blank tied to B171B9, -A, -B	B171B1	ug/L	2.30	U	2.40	U	2.20	U	2.00	U	2.90	U	3.30	U	2.10	U	2.40	U

Table B5-5. Semi-Volatile Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			Bis (2-Chloroethoxy) methane		Bis(2-chloroethyl) ether		Bis (2-ethylhexyl) phthalate		Buty lbenzyl phthalate		Carbazole		Chrysene		Diacetone alcohol		Dibenz[a h] anthracene	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B171B8	ug/kg	350	U	350	U	18	J	350	U	350	U	350	U			350	U
35.5 bgs	B171B9	ug/kg	590	U	1300	U	2900	U	350	U	420	U	350	U			350	U
40 bgs	B171C0	ug/kg	550	U	1200	U	2700	U	320	U	390	U	320	U	200000	JN	320	U
50 bgs	B17216	ug/kg	570	U	1200	U	2800	U	330	U	400	U	330	U			330	U
62.5 bgs	B17217	ug/kg	590	U	1300	U	2900	U	340	U	410	U	340	U	13000	JN	340	U
94.5 bgs	B17218	ug/kg	570	U	1200	U	2800	U	340	U	400	U	340	U	21000	JN	340	U
197.5 bgs	B161C2	ug/kg	340	U	340	U	340	U	340	U	340	U	340	U			340	U
247.5 bgs	B161C3	ug/kg	340	U	340	U	20	JB	340	U	340	U	340	U			340	U
302 bgs	B161C4	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U			350	U
dup of B17218	B171C1	ug/kg	530	U	1200	U	2600	U	310	U	370	U	310	U	22000	JN	310	U
equip blank tied to B171B9, -A, -B	B171B1	ug/L	2.30	U	4.00	U	3.00	U	2.30	U	1.60	U	2.70	U			3.00	U

Table B5-5. Semi-Volatile Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			Dibenzo furan		Diethyl phthalate		Dimethyl phthalate		Di-n-butyl phthalate		Di-n-octyl phthalate		Fluor anthene		Fluorene		Hexachloro benzene		Hexachloro butadiene	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B171B8	ug/kg	350	U	350	U	350	U	77	J	350	U	350	U	350	U	350	U	350	U
35.5 bgs	B171B9	ug/kg	350	U	1400	J	350	U	450	U	350	U	350	U	350	U	350	U	1900	U
40 bgs	B171C0	ug/kg	320	U	8700		320	U	420	U	320	U	320	U	320	U	320	U	1800	U
50 bgs	B17216	ug/kg	330	U	1100	J	330	U	430	U	330	U	330	U	330	U	330	U	1800	U
62.5 bgs	B17217	ug/kg	340	U	1400	J	340	U	450	U	340	U	340	U	340	U	340	U	1900	U
94.5 bgs	B17218	ug/kg	340	U	940	U	340	U	440	U	340	U	340	U	340	U	340	U	1800	U
197.5 bgs	B161C2	ug/kg	340	U	340	U	340	U	28	JB	340	U	340	U	340	U	340	U	340	U
247.5 bgs	B161C3	ug/kg	340	U	340	U	340	U	46	JB	340	U	340	U	340	U	340	U	340	U
302 bgs	B161C4	ug/kg	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U	350	U
dup of B17218	B171C1	ug/kg	310	U	2300	J	310	U	410	U	310	U	310	U	310	U	310	U	1700	U
equip blank tied to B171B9, -A, -B	B171B1	ug/L	2.20	U	7.30	U	2.40	U	2.40	U	2.90	U	2.40	U	2.30	U	2.40	U	4.20	U
Target Quantitation Limit		ug/kg																		

Table B5-5. Semi-Volatile Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			Hexachloro cyclopentadiene		Hexachloro ethane		Indeno(1 2 3-cd) pyrene		Iso phorone		Mesityl oxide		Naph thalene		Nitro benzene		N-Nitrosodi- n-dipropylamine	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B171B8	ug/kg	350	U	350	U	350	U	350	U			350	U	350	U	350	U
35.5 bgs	B171B9	ug/kg	1600	U	2400	U	350	U	350	U			1500	U	1400	U	350	U
40 bgs	B171C0	ug/kg	1500	U	2300	U	320	U	320	U	14000	JN	1400	U	1300	U	320	U
50 bgs	B17216	ug/kg	1600	U	2300	U	330	U	330	U			1400	U	1300	U	330	U
62.5 bgs	B17217	ug/kg	1600	U	2400	U	340	U	340	U	2100	JN	1500	U	1300	U	340	U
94.5 bgs	B17218	ug/kg	1600	U	2300	U	340	U	340	U	2800	JN	1400	U	1300	U	340	U
197.5 bgs	B161C2	ug/kg	340	U	340	U	340	U	340	U			340	U	340	U	340	U
247.5 bgs	B161C3	ug/kg	340	U	340	U	340	U	340	U			340	U	340	U	340	U
302 bgs	B161C4	ug/kg	350	U	350	U	350	U	350	U			350	U	350	U	350	U
dup of B17218	B171C1	ug/kg	1500	U	2200	U	310	U	310	U	4500	JN	1300	U	1200	U	310	U
equip blank tied to B171B9, -A, -B	B171B1	ug/L	9.10	U	6.40	U	3.00	U	2.20	U			2.80	U	2.30	U	2.00	U
Target Quantitation Limit		ug/kg																

Table B5-5. Semi-Volatile Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			N-Nitroso diphenylamine		Pentachloro phenol		Phen anthrene		Phenol		Pyrene		Tetramethyl piperidinone		Tributyl phosphate	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
14.5 bgs	B171B8	ug/kg	350	U	880	U	350	U	350	U	350	U			350	U
35.5 bgs	B171B9	ug/kg	350	U	1600	U	350	U	520	U	350	U			640	J
40 bgs	B171C0	ug/kg	320	U	1500	U	320	U	490	U	320	U	1900	J	2000	J
50 bgs	B17216	ug/kg	330	U	1500	U	330	U	500	U	330	U	1100	JN	330	U
62.5 bgs	B17217	ug/kg	340	U	1600	U	340	U	520	U	340	U			340	U
94.5 bgs	B17218	ug/kg	340	U	1500	U	340	U	500	U	340	U	740	J	610	J
197.5 bgs	B161C2	ug/kg	340	U	850	U	340	U	340	U	340	U			340	U
247.5 bgs	B161C3	ug/kg	340	U	860	U	340	U	340	U	340	U			340	U
302 bgs	B161C4	ug/kg	350	U	860	U	350	U	350	U	350	U			350	U
dup of B17218	B171C1	ug/kg	310	U	1400	U	310	U	470	U	310	U	1200	JN	570	J
equip blank tied to B171B9, -A, -B	B171B1	ug/L	2.70	U	2.00	U	2.60	U	2.00	U	2.40	U			2.90	U
Target Quantitation Limit		ug/kg							330						3300	

B = Analyte found in associated method blank
bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
J = Estimated
N = Tentatively identified compound based on mass spectral library search
Q = Qualifier
U = Undetected

Table B5-6. Miscellaneous Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			Endo sulfan I		Endrin		Hepta chlor		1-Butanol			2 4 5-Trichloro phenoxyacetic acid		2 4-Dichloro phenoxyacetic acid	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q
0.5 bgs	B171B7	ug/kg	1.70	U	3.30	U	1.70	U				18.0	U	35.0	U
14.5 bgs	B171B8	ug/kg							28000	U					
35.5 bgs	B171B9	ug/kg							50000	U	UJ				
35.5 bgs	B171B9-A	ug/kg							50000	U	UJ				
40 bgs	B171C0	ug/kg													
40 bgs	B171C0-A	ug/kg													
50 bgs	B17216	ug/kg							50000	U					
50 bgs	B17216-A	ug/kg							50000	U					
62.5 bgs	B17217	ug/kg							50000	U					
62.5 bgs	B17217-A	ug/kg							50000	U					
94.5 bgs	B17218	ug/kg													
94.5 bgs	B17218-A	ug/kg													
197.5 bgs	B161C2	ug/kg							24000	U					
247.5 bgs	B161C3	ug/kg							22000	U					
302 bgs	B161C4	ug/kg							26000	U					
dup of B17218	B171C1	ug/kg													
dup of B17218-A	B171C1-A	ug/kg													
equip blank tied to B171B9, -A, -B	B171B1	ug/L													
Target Quantitation Limit		ug/kg													

Table B5-6. Miscellaneous Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			2-(2 4 5-Trichlorophenoxy) propionic acid		2-secButyl-4 6-dinitrophenol (DNBP)		4-(2 4-Dichloro phenoxy) butanoic acid		Aldrin		Alpha-BHC		alpha-Chlordane		Aroclor-1016		Aroclor-1221	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
0.5 bgs	B171B7	ug/kg	18.0	U	18.0	U	180	U	1.70	U	1.70	U	1.70	U				
14.5 bgs	B171B8	ug/kg																
35.5 bgs	B171B9	ug/kg													110	U	110	U
35.5 bgs	B171B9-A	ug/kg																
40 bgs	B171C0	ug/kg													97.0	U	97.0	U
40 bgs	B171C0-A	ug/kg																
50 bgs	B17216	ug/kg																
50 bgs	B17216-A	ug/kg																
62.5 bgs	B17217	ug/kg																
62.5 bgs	B17217-A	ug/kg																
94.5 bgs	B17218	ug/kg																
94.5 bgs	B17218-A	ug/kg																
197.5 bgs	B161C2	ug/kg																
247.5 bgs	B161C3	ug/kg																
302 bgs	B161C4	ug/kg																
dup of B17218	B171C1	ug/kg																
dup of B17218-A	B171C1-A	ug/kg																
equip blank tied to B171B9, -A, -B	B171B1	ug/L																
Target Quantitation Limit		ug/kg													100		100	

Table B5-6. Miscellaneous Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			Aroclor-1232		Aroclor-1242		Aroclor-1248		Aroclor-1254		Aroclor-1260		Aroclor-1262		Aroclor-1268		beta-1 2 3 4 5 6-Hexachloro cyclohexane		Dalapon		Delta-BHC	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
0.5 bgs	B171B7	ug/kg															1.70	U	180	U	1.70	U
14.5 bgs	B171B8	ug/kg																				
35.5 bgs	B171B9	ug/kg	110	U	110	U	110	U	140	J	110	U	110	U	110	U						
35.5 bgs	B171B9-A	ug/kg																				
40 bgs	B171C0	ug/kg	97.0	U	97.0	U	97.0	U	97.0	U	97.0	U	97.0	U	97.0	U						
40 bgs	B171C0-A	ug/kg																				
50 bgs	B17216	ug/kg																				
50 bgs	B17216-A	ug/kg																				
62.5 bgs	B17217	ug/kg																				
62.5 bgs	B17217-A	ug/kg																				
94.5 bgs	B17218	ug/kg																				
94.5 bgs	B17218-A	ug/kg																				
197.5 bgs	B161C2	ug/kg																				
247.5 bgs	B161C3	ug/kg																				
302 bgs	B161C4	ug/kg																				
dup of B17218	B171C1	ug/kg																				
dup of B17218-A	B171C1-A	ug/kg																				
equip blank tied to B171B9, -A, -B	B171B1	ug/L																				
Target Quantitation Limit		ug/kg	100		100		100		100		100		100		100							

Table B5-6. Miscellaneous Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			Dicamba		Dichloro diphenyl dichloroethane		Dichloro diphenyl dichloroethylene		Dichloro diphenyl trichloroethane		Dichloro prop		Dieldrin		Diethyl ether		Endo sulfan II	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
0.5 bgs	B171B7	ug/kg	71.0	U	3.30	U	3.30	U	3.30	U	180	U	3.30	U			3.30	U
14.5 bgs	B171B8	ug/kg													28000	U		
35.5 bgs	B171B9	ug/kg																
35.5 bgs	B171B9-A	ug/kg																
40 bgs	B171C0	ug/kg																
40 bgs	B171C0-A	ug/kg																
50 bgs	B17216	ug/kg																
50 bgs	B17216-A	ug/kg																
62.5 bgs	B17217	ug/kg																
62.5 bgs	B17217-A	ug/kg																
94.5 bgs	B17218	ug/kg																
94.5 bgs	B17218-A	ug/kg																
197.5 bgs	B161C2	ug/kg													24000	U		
247.5 bgs	B161C3	ug/kg													22000	U		
302 bgs	B161C4	ug/kg													26000	U		
dup of B17218	B171C1	ug/kg																
dup of B17218-A	B171C1-A	ug/kg																
equip blank tied to B171B9, -A, -B	B171B1	ug/L													5000	U		
Target Quantitation Limit		ug/kg																

Table B5-6. Miscellaneous Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			Endo sulfan sulfate		Endrin aldehyde		Endrin ketone		Ethylene glycol			Gamma-BHC (Lindane)		gamma-Chlordane		Heptachlor epoxide		Methanol		
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual
0.5 bgs	B171B7	ug/kg	3.30	U	3.30	U	3.30	U				1.70	U	1.70	U	1.70	U			
14.5 bgs	B171B8	ug/kg							23.5	U								28000	U	
35.5 bgs	B171B9	ug/kg							50000	U	UJ							8800	U	UJ
35.5 bgs	B171B9-A	ug/kg							50000	U	UJ							8800	U	UJ
40 bgs	B171C0	ug/kg																		
40 bgs	B171C0-A	ug/kg																		
50 bgs	B17216	ug/kg							50000	U								8800	U	
50 bgs	B17216-A	ug/kg							50000	U								8800	U	
62.5 bgs	B17217	ug/kg							50000	U								8800	U	
62.5 bgs	B17217-A	ug/kg							50000	U								8800	U	
94.5 bgs	B17218	ug/kg																		
94.5 bgs	B17218-A	ug/kg																		
197.5 bgs	B161C2	ug/kg							22.5	U								24000	U	
247.5 bgs	B161C3	ug/kg							25.5	U								22000	U	
302 bgs	B161C4	ug/kg							22.0	U								26000	U	
dup of B17218	B171C1	ug/kg																		
dup of B17218-A	B171C1-A	ug/kg																		
equip blank tied to B171B9, -A, -B	B171B1	ug/L							5000	U								1000	U	
Target Quantitation Limit		ug/kg							5000											

Table B5-6. Miscellaneous Organic Analysis Results for 216-B-12 Crib (C3246) Samples

			Methoxy chlor		Oil and grease			TPH - diesel range		TPH - gasoline range			TPH - kerosene range		Toxa phene	
Interval	HEIS	Units	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	al Qu	Result	Q	Result	Q
0.5 bgs	B171B7	ug/kg	17.0	U											170	U
14.5 bgs	B171B8	ug/kg			702000	U		12600	U	110			12600	U		
35.5 bgs	B171B9	ug/kg			200000	U	UJ	16000	U	500	U	UJ	16000	U		
35.5 bgs	B171B9-A	ug/kg			200000	U	UJ									
40 bgs	B171C0	ug/kg			200000	U		15000	U	500	U		15000	U		
40 bgs	B171C0-A	ug/kg			200000	U										
50 bgs	B17216	ug/kg			200000	U		15000	U	1000	U		15000	U		
50 bgs	B17216-A	ug/kg			200000	U										
62.5 bgs	B17217	ug/kg			200000	U		15000	U	1000	U		15000	U		
62.5 bgs	B17217-A	ug/kg			200000	U										
94.5 bgs	B17218	ug/kg			200000	U		15000	U	500	U		15000	U		
94.5 bgs	B17218-A	ug/kg			200000	U										
197.5 bgs	B161C2	ug/kg			681000	U		12300	U	29	U		12300	U		
247.5 bgs	B161C3	ug/kg			686000	U		12300	U	30	U		12300	U		
302 bgs	B161C4	ug/kg			692000	U		12400	U	370	U		12400	U		
dup of B17218	B171C1	ug/kg			200000	U		15000	U	500	U		15000	U		
dup of B17218-A	B171C1-A	ug/kg			200000	U										
equip blank tied to B171B9, -A, -B	B171B1	ug/L						150	U	250	U		150	U		
Target Quantitation Limit		ug/kg			200000			5000		5000			5000			

bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
Q = Qualifier
U = Undetected
UJ = Undetected, detection limit is estimated

Table B6-1. Radiochemical Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Actinium-228			Americium-241				Antimony-125			Bismuth-212			Bismuth-214			Carbon-14				Cerium-144		
Loc	Interval*	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Val Qual	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual	Result	Q	MDA
C4113	1-2 bgs	B17HR5	pCi/g	0.80		0.039	0.021		0.012	J	-0.008	U	0.037	0.457		0.089	0.653		0.025					-0.011	U	0.11
C4113	1-2 bgs	B17HR9	pCi/g																	-1.06	U	3.80	UJ			
C4114	1-2 bgs	B17HX4	pCi/g																	-0.272	U	3.60	UJ			
C4115	1-2 bgs	B17HX8	pCi/g																	1.22	U	3.70	UJ			
C4114	1-2 bgs	B17HY0	pCi/g	0.835		0.052	0.022	U	0.026		-0.02	U	0.045	0.553		0.12	0.696		0.029					-0.034	U	0.13
C4115	1-2 bgs	B17HY6	pCi/g	0.811		0.044	0.049		0.016	J	0.004	U	0.043	0.498		0.11	0.698		0.029					-0.063	U	0.12
C4113	2-3 bgs	B17HR6	pCi/g	0.826		0.044	0.024		0.018	J	0.02	U	0.042	0.607		0.10	0.807		0.025					-0.05	U	0.12
C4113	2-3 bgs	B17HT0	pCi/g																	-0.48	U	3.60	UJ			
C4114	2-3 bgs	B17HX5	pCi/g																	-0.214	U	3.40	UJ			
C4115	2-3 bgs	B17HX9	pCi/g																	-0.296	U	3.60	UJ			
C4114	2-3 bgs	B17HY1	pCi/g	0.69		0.13	0.036		0.02	J	-0.042	U	0.077	0.594		0.25	0.541		0.064					0.015	U	0.16
C4115	2-3 bgs	B17HY7	pCi/g	0.945		0.12	0.011	U	0.019		-0.027	U	0.085	0.395		0.28	0.461		0.069					-0.062	U	0.21
C4113	6-7 bgs	B17HR7	pCi/g	0.545		0.085	0.03		0.017	J	0.03	U	0.057	0.442		0.20	0.345		0.049					-0.041	U	0.12
C4113	6-7 bgs	B17HT1	pCi/g																	-0.627	U	2.50	UJ			
C4114	6-7 bgs	B17HX6	pCi/g																	0.144	U	2.50	UJ			
C4114	6-7 bgs	B17HY2	pCi/g	0.692		0.041	0.014	U	0.058		0.02	U	0.033	0.436		0.093	0.537		0.023					0.021	U	0.091
C4115	6-7 bgs	B17HY4	pCi/g																	0.746	U	3.50	UJ			
C4115	6-7 bgs	B17HY8	pCi/g	1.10		0.056	0.014	U	0.053		0.011	U	0.045	0.698		0.12	0.859		0.029					-0.014	U	0.14
C4113	12.5-13.5 bgs	B17HR8	pCi/g	0.542		0.026	0.02	U	0.024		0.003	U	0.024	0.357		0.063	0.427		0.016					-0.003	U	0.074
C4113	12.5-13.5 bgs	B17HT2	pCi/g																	-0.316	U	1.60				
C4114	12.5-13.5 bgs	B17HX7	pCi/g																	-0.316	U	2.00				
C4114	12.5-13.5 bgs	B17HY3	pCi/g	0.504		0.033	0.026		0.013		0	U	0.029	0.356		0.078	0.399		0.02					0.029	U	0.086
C4115	12.5-13.5 bgs	B17HY5	pCi/g																	-0.204	U	1.70				
C4115	12.5-13.5 bgs	B17HY9	pCi/g	0.451		0.062	0.019		0.012		-0.005	U	0.037	0.222		0.14	0.29		0.032					0.034	U	0.084
C4115	dup of B17HX8	B17J02	pCi/g																	-0.238	U	3.70	UJ			
C4115	dup of B17HY6	B17J03	pCi/g	0.799		0.043	0.023		0.013	J	0.002	U	0.042	0.454		0.098	0.64		0.026					0.015	U	0.12
C4113	equip blank tied to B17HR5 & B17HR9	B17HR3	pCi/L																	32.0	U	39.0				
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	pCi/L	3.68	U	24.0	0.015	U	0.055		16.9	U	22.0	-5.61	U	53.0	-38.2	U	21.0					-5.39	U	42.0
Target Quantitation Limit			pCi/g				1													50.0						

Table B6-1. Radiochemical Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Cesium-134			Cesium-137			Cobalt-60			Europium-152			Europium-154			Europium-155			Iodine-129			
Loc	Interval*	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual
C4113	1-2 bgs	B17HR5	pCi/g	0.041	U	0.05	1.07		0.013	-0.002	U	0.012	-0.026	U	0.039	0.022	U	0.038	0.052	U	0.055				
C4113	1-2 bgs	B17HR9	pCi/g																			-5.00	U	8.60	
C4114	1-2 bgs	B17HX4	pCi/g																			-2.77	U	5.10	
C4115	1-2 bgs	B17HX8	pCi/g																			-0.998	U	7.80	
C4114	1-2 bgs	B17HY0	pCi/g	0.05	U	0.06	1.06		0.016	-0.008	U	0.015	-0.029	U	0.048	0.041	U	0.05	0.077		0.07				
C4115	1-2 bgs	B17HY6	pCi/g	0.042	U	0.05	1.07		0.015	0.005	U	0.014	0.016	U	0.046	-0.012	U	0.044	0.042	U	0.059				
C4113	2-3 bgs	B17HR6	pCi/g	0.038	U	0.04	0.492		0.015	-0.006	U	0.013	0.002	U	0.044	0.005	U	0.042	0.015	U	0.063				
C4113	2-3 bgs	B17HT0	pCi/g																			-0.29	U	3.60	
C4114	2-3 bgs	B17HX5	pCi/g																			-3.74	U	12.0	
C4115	2-3 bgs	B17HX9	pCi/g																			0.513	U	2.40	
C4114	2-3 bgs	B17HY1	pCi/g	0.022	U	0.041	0.724		0.034	-0.001	U	0.042	-0.045	U	0.078	-0.074	U	0.11	0.026	U	0.087				
C4115	2-3 bgs	B17HY7	pCi/g	0.045	U	0.05	0.922		0.034	0.009	U	0.037	-0.038	U	0.089	-0.005	U	0.11	-0.009	U	0.11				
C4113	6-7 bgs	B17HR7	pCi/g	0.034	U	0.04	-0.014	U	0.025	0.001	U	0.03	-0.031	U	0.059	0.003	U	0.092	0.025	U	0.066				
C4113	6-7 bgs	B17HT1	pCi/g																			-1.68	U	6.70	
C4114	6-7 bgs	B17HX6	pCi/g																			0.47	U	4.60	UJ
C4114	6-7 bgs	B17HY2	pCi/g	0.043	U	0.017	0.034		0.013	0.001	U	0.013	-0.008	U	0.034	-0.011	U	0.042	0.019	U	0.049				
C4115	6-7 bgs	B17HY4	pCi/g																			-3.60	U	11.0	
C4115	6-7 bgs	B17HY8	pCi/g	0.072	U	0.023	0.017	U	0.018	0.003	U	0.016	-0.001	U	0.048	-0.009	U	0.051	0.048	U	0.072				
C4113	12.5-13.5 bgs	B17HR8	pCi/g	0.025	U	0.031	0.001	U	0.008	-0.002	U	0.008	-0.013	U	0.025	-0.004	U	0.027	-0.009	U	0.038				
C4113	12.5-13.5 bgs	B17HT2	pCi/g																			-0.68	U	4.70	
C4114	12.5-13.5 bgs	B17HX7	pCi/g																			-0.126	U	1.60	
C4114	12.5-13.5 bgs	B17HY3	pCi/g	0.035	U	0.044	0.019		0.011	0.001	U	0.01	-0.013	U	0.031	0.027	U	0.034	0.015	U	0.046				
C4115	12.5-13.5 bgs	B17HY5	pCi/g																			-1.25	U	4.50	
C4115	12.5-13.5 bgs	B17HY9	pCi/g	0.008	U	0.019	-0.001	U	0.017	-0.001	U	0.021	-0.019	U	0.037	-0.007	U	0.061	0.022	U	0.046				
C4115	dup of B17HX8	B17J02	pCi/g																			-0.85	U	3.00	
C4115	dup of B17HY6	B17J03	pCi/g	0.038	U	0.04	1.04		0.015	0.004	U	0.014	-0.004	U	0.045	0.007	U	0.043	0.059	U	0.064				
C4113	equip blank tied to B17HR5 & B17HR9	B17HR3	pCi/L																			-2.68	U	12.0	
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	pCi/L	4.12	U	7.60	0.74	U	7.20	-1.55	U	6.10	13.7	U	22.0	-8.46	U	$18.0	-8.38	U	21.0				
Target Quantitation Limit			pCi/g				0.10			0.05			0.10			0.10			0.10			2.00			

Table B6-1. Radiochemical Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Lead-212			Lead-214			Neptunium-237			Nickel-63			Niobium-94			Plutonium-238				Plutonium-239/240		
Loc	Interval*	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual	Result	Q	MDA
C4113	1-2 bgs	B17HR5	pCi/g	0.86		0.026	0.73		0.028							0.004	U	0.012	-0.008	U	0.053	UJ	0.004	U	0.014
C4113	1-2 bgs	B17HR9	pCi/g							0	U	0.044	-0.379	U	2.30										
C4114	1-2 bgs	B17HX4	pCi/g							-0.02	U	0.071	-0.866	U	2.50										
C4115	1-2 bgs	B17HX8	pCi/g							-0.012	U	0.076	-0.805	U	2.40										
C4114	1-2 bgs	B17HY0	pCi/g	0.928		0.032	0.747		0.036							0.004	U	0.015	0.024	U	0.051	UJ	0.006	U	0.017
C4115	1-2 bgs	B17HY6	pCi/g	0.891		0.031	0.791		0.033							0.002	U	0.013	-0.004	U	0.028	UJ	0.007	U	0.013
C4113	2-3 bgs	B17HR6	pCi/g	0.941		0.029	0.81		0.032							0.005	U	0.013	0.002	U	0.057	UJ	0.002	U	0.006
C4113	2-3 bgs	B17HT0	pCi/g							0.005	U	0.07	-0.667	U	2.30										
C4114	2-3 bgs	B17HX5	pCi/g							0.074	U	0.11	-0.817	U	2.30										
C4115	2-3 bgs	B17HX9	pCi/g							-0.016	U	0.045	-0.758	U	2.80										
C4114	2-3 bgs	B17HY1	pCi/g	0.736		0.045	0.597		0.057							0.003	U	0.032	-0.021	U	0.049	UJ	0.01	U	0.018
C4115	2-3 bgs	B17HY7	pCi/g	0.805		0.055	0.585		0.066							0.032		0.031	0.006	U	0.029	UJ	0.004	U	0.014
C4113	6-7 bgs	B17HR7	pCi/g	0.551		0.032	0.394		0.042							0.007	U	0.024	-0.02	U	0.058	UJ	0.012		0.005
C4113	6-7 bgs	B17HT1	pCi/g							-0.026	U	0.069	-0.64	U	2.30										
C4114	6-7 bgs	B17HX6	pCi/g							-0.037	U	0.29	-1.92	U	2.30										
C4114	6-7 bgs	B17HY2	pCi/g	0.751		0.023	0.577		0.025							0.008	U	0.012	0.003	U	0.067		0.003	U	0.019
C4115	6-7 bgs	B17HY4	pCi/g							0.043	U	0.059	-0.407	U	2.50										
C4115	6-7 bgs	B17HY8	pCi/g	1.18		0.034	0.971		0.034							0.004	U	0.016	-0.008	U	0.049		0.006	U	0.015
C4113	12.5-13.5 bgs	B17HR8	pCi/g	0.529		0.018	0.464		0.018							0.002	U	0.008	-0.015	U	0.056		0.004	U	0.022
C4113	12.5-13.5 bgs	B17HT2	pCi/g							0.006	U	0.017	0.959	U	2.40										
C4114	12.5-13.5 bgs	B17HX7	pCi/g							0	U	0.045	0.796	U	2.30										
C4114	12.5-13.5 bgs	B17HY3	pCi/g	0.557		0.021	0.441		0.023							0.004	U	0.01	0.016	U	0.047		0.008	U	0.015
C4115	12.5-13.5 bgs	B17HY5	pCi/g							0.013	U	0.05	0.067	U	2.60										
C4115	12.5-13.5 bgs	B17HY9	pCi/g	0.47		0.022	0.35		0.029							0.001	U	0.016	0.015	U	0.048		0.008	U	0.014
C4115	dup of B17HX8	B17J02	pCi/g							-0.005	U	0.058	-1.06	U	2.50										
C4115	dup of B17HY6	B17J03	pCi/g	0.87		0.029	0.731		0.033							0	U	0.013	-0.004	U	0.049	UJ	0.012	U	0.019
C4113	equip blank tied to B17HR5 & B17HR9	B17HR3	pCi/L							0.152	U	0.44	0.576	U	2.10										
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	pCi/L	-2.89	U	12.0	-55.6	U	20.0							3.79	U	6.80	-0.041	U	0.17		0.006	U	0.043
Target Quantitation Limit			pCi/g							1.00			30.0						1.00				1.00		

Table B6-1. Radiochemical Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Radium-226				Radium-228			Ruthenium-103			Ruthenium-106			Technetium-99			Thallium-208			Thorium-228			Thorium-230		
Loc	Interval*	HEIS	Units	Result	Q	MDA	Val Qual	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
C4113	1-2 bgs	B17HR5	pCi/g	0.653		0.025	J	0.8		0.039	-0.004	U	0.013	0.036	U	0.11				0.261		0.012						
C4113	1-2 bgs	B17HR9	pCi/g														0.123	U	0.44				0.535		0.24	0.252		0.24
C4114	1-2 bgs	B17HX4	pCi/g														0.05	U	0.56				0.344		0.26	0.447		0.26
C4115	1-2 bgs	B17HX8	pCi/g														0.049	U	0.57				0.714		0.22	1.26		0.22
C4114	1-2 bgs	B17HY0	pCi/g	0.696		0.029	J	0.835		0.052	-0.012	U	0.016	0.054	U	0.14				0.27		0.015						
C4115	1-2 bgs	B17HY6	pCi/g	0.698		0.029	J	0.811		0.044	0.001	U	0.016	0.059	U	0.13				0.246		0.015						
C4113	2-3 bgs	B17HR6	pCi/g	0.807		0.025	J	0.826		0.044	-0.001	U	0.014	-0.061	U	0.12				0.256		0.014						
C4113	2-3 bgs	B17HT0	pCi/g														0.093	U	0.58				0.479		0.24	0.51		0.24
C4114	2-3 bgs	B17HX5	pCi/g														0	U	0.60				0.705		0.45	0.528		0.45
C4115	2-3 bgs	B17HX9	pCi/g														0.083	U	0.54				0.681		0.24	0.773		0.24
C4114	2-3 bgs	B17HY1	pCi/g	0.541		0.064	J	0.69		0.13	-0.019	U	0.031	0.036	U	0.3				0.214		0.031						
C4115	2-3 bgs	B17HY7	pCi/g	0.461		0.069	J	0.945		0.12	0.008	U	0.035	-0.051	U	0.31				0.226		0.034						
C4113	6-7 bgs	B17HR7	pCi/g	0.345		0.049	J	0.545		0.085	0.004	U	0.023	0.072	U	0.22				0.146		0.023						
C4113	6-7 bgs	B17HT1	pCi/g														0.095	U	0.56				0.12	U	0.23	0.36		0.23
C4114	6-7 bgs	B17HX6	pCi/g														0.024	U	0.56				0.332		0.23	0.512		0.23
C4114	6-7 bgs	B17HY2	pCi/g	0.537		0.023		0.692		0.041	-0.001	U	0.012	0.031	U	0.11				0.232		0.012						
C4115	6-7 bgs	B17HY4	pCi/g														0.124	U	0.61				0.491		0.23	0.429		0.23
C4115	6-7 bgs	B17HY8	pCi/g	0.859		0.029		1.1		0.056	0.001	U	0.017	0.027	U	0.14				0.358		0.016						
C4113	12.5-13.5 bgs	B17HR8	pCi/g	0.427		0.016		0.542		0.026	-0.001	U	0.009	0.018	U	0.069				0.153		0.008						
C4113	12.5-13.5 bgs	B17HT2	pCi/g														0.116	U	0.59				0.337		0.29	0.225	U	0.29
C4114	12.5-13.5 bgs	B17HX7	pCi/g														0.028	U	0.58				0.737		0.31	0.491		0.31
C4114	12.5-13.5 bgs	B17HY3	pCi/g	0.399		0.02		0.504		0.033	0.001	U	0.011	0.019	U	0.09				0.166		0.01						
C4115	12.5-13.5 bgs	B17HY5	pCi/g														-0.006	U	0.56				0.56		0.31	0.28	U	0.31
C4115	12.5-13.5 bgs	B17HY9	pCi/g	0.29		0.032		0.451		0.062	-0.001	U	0.015	-0.019	U	0.14				0.127		0.014						
C4115	dup of B17HX8	B17J02	pCi/g														0.101	U	0.58				0.41		0.26	0.511		0.26
C4115	dup of B17HY6	B17J03	pCi/g	0.64		0.026	J	0.799		0.043	-0.001	U	0.015	-0.032	U	0.12				0.263		0.014						
C4113	equip blank tied to B17HR5 & B17HR9	B17HR3	pCi/L														-0.29	U	5.80									
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	pCi/L	-38.2	U	21.0		3.68	U	24.0	1.54	U	9.50	-13.1	U	64.0				4.24	U	7.60						
Target Quantitation Limit			pCi/g	0.10				0.20									15.0											

Table B6-1. Radiochemical Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Thorium-232			Thorium-234			Tin-113			Tin-126			Total beta radiostrontium			Tritium			Uranium-233/234[a]			
Loc	Interval[a]	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Val Qual
C4113	1-2 bgs	B17HR5	pCi/g				0.453	U	0.7	0.001	U	0.017	0.209	U	0.3							0.23		0.023	J
C4113	1-2 bgs	B17HR9	pCi/g	0.535		0.24										0.676		0.22	0.385		0.27				
C4114	1-2 bgs	B17HX4	pCi/g	0.722		0.26										1.40		0.23	6.24		0.26				
C4115	1-2 bgs	B17HX8	pCi/g	0.514		0.22										1.22		0.22	0.295		0.25				
C4114	1-2 bgs	B17HY0	pCi/g				1.35		1.00	0.005	U	0.022	0.236	U	0.3							0.14		0.011	J
C4115	1-2 bgs	B17HY6	pCi/g				1.08		0.85	-0.007	U	0.02	0.24	U	0.3							0.15		0.013	J
C4113	2-3 bgs	B17HR6	pCi/g				0.258	U	0.82	-0.01	U	0.018	0.212	U	0.3							0.16		0.012	J
C4113	2-3 bgs	B17HT0	pCi/g	0.702		0.24										0.446		0.22	0.82		0.25				
C4114	2-3 bgs	B17HX5	pCi/g	0.528		0.45										1.34		0.21	12.4		0.25				
C4115	2-3 bgs	B17HX9	pCi/g	0.371		0.24										1.18		0.21	0.156	U	0.25				
C4114	2-3 bgs	B17HY1	pCi/g				0.908	U	1.50	0.015	U	0.038	0.079	U	0.08							0.20		0.024	J
C4115	2-3 bgs	B17HY7	pCi/g				3.16		1.80	0.005	U	0.042	0.134	U	0.2							0.14		0.013	J
C4113	6-7 bgs	B17HR7	pCi/g				0.749	U	1.20	-0.007	U	0.026	0.124	U	0.2							0.14		0.012	J
C4113	6-7 bgs	B17HT1	pCi/g	0.18	U	0.23										0.046	U	0.25	0.015	U	0.26				
C4114	6-7 bgs	B17HX6	pCi/g	0.331		0.23										0.007	U	0.27	5.68		0.25				
C4114	6-7 bgs	B17HY2	pCi/g				0.792		0.73	-0.002	U	0.015	0.159	U	0.2							0.17		0.005	
C4115	6-7 bgs	B17HY4	pCi/g	0.521		0.23										0.067	U	0.26	16.6		0.26				
C4115	6-7 bgs	B17HY8	pCi/g				1.54		1.10	0.007	U	0.021	0.283	U	0.3							0.24		0.018	
C4113	12.5-13.5 bgs	B17HR8	pCi/g				0.429	U	0.49	-0.008	U	0.011	0.118	U	0.2							0.12		0.005	
C4113	12.5-13.5 bgs	B17HT2	pCi/g	0.337		0.29										-0.04	U	0.27	-0.034	U	0.26				
C4114	12.5-13.5 bgs	B17HX7	pCi/g	0.327		0.31										-0.088	U	0.27	5.00		0.25				
C4114	12.5-13.5 bgs	B17HY3	pCi/g				0.734		0.59	-0.007	U	0.013	0.093	U	0.1							0.094		0.018	
C4115	12.5-13.5 bgs	B17HY5	pCi/g	0.60		0.31										-0.045	U	0.28	6.07		0.24				
C4115	12.5-13.5 bgs	B17HY9	pCi/g				0.633	U	0.73	0.006	U	0.018	0.081	U	0.09							0.13		0.014	
C4115	dup of B17HX8	B17J02	pCi/g	0.58		0.26										0.969		0.21	0.205	U	0.25				
C4115	dup of B17HY6	B17J03	pCi/g				1.09		0.82	0	U	0.019	0.22	U	0.3							0.15		0.012	J
C4113	equip blank tied to B17HR5 & B17HR9	B17HR3	pCi/L													0.36	U	0.53	53.7	U	160				
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	pCi/L				-15.5	U	250	-3.36	U	9.20	-6.63	U	14.0							0.13		0.031	
Target Quantitation Limit			pCi/g	1.00												1.00			400			1.00			

Table B6-1. Radiochemical Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Uranium-235				Uranium-238			Uranium				Zinc-65		
Loc	Interval*	HEIS	Units	Result	Q	MDA	Val Qual	Result	Q	MDA	Result	Units	Q	MDA	Result	Q	MDA
C4113	1-2 bgs	B17HR5	pCi/g	0.014		0.005	J	0.25		0.013	991	ug/kg	U		-0.013	U	0.027
C4113	1-2 bgs	B17HR9	pCi/g														
C4114	1-2 bgs	B17HX4	pCi/g														
C4115	1-2 bgs	B17HX8	pCi/g														
C4114	1-2 bgs	B17HY0	pCi/g	0.01		0.005	J	0.14		0.004	910	ug/kg	U		0.011	U	0.035
C4115	1-2 bgs	B17HY6	pCi/g	0.017		0.014	J	0.14		0.005	910	ug/kg	U		-0.003	U	0.031
C4113	2-3 bgs	B17HR6	pCi/g	0.011	U	0.013	UJ	0.16		0.004	958	ug/kg	U		0.026	U	0.029
C4113	2-3 bgs	B17HT0	pCi/g														
C4114	2-3 bgs	B17HX5	pCi/g														
C4115	2-3 bgs	B17HX9	pCi/g														
C4114	2-3 bgs	B17HY1	pCi/g	0.026		0.005	J	0.16		0.013	928	ug/kg	U		0.033	U	0.09
C4115	2-3 bgs	B17HY7	pCi/g	0.013		0.005	J	0.2		0.016	890	ug/kg	U		-0.05	U	0.078
C4113	6-7 bgs	B17HR7	pCi/g	0.024		0.005	J	0.16		0.016	938	ug/kg	U		0.072	U	0.08
C4113	6-7 bgs	B17HT1	pCi/g														
C4114	6-7 bgs	B17HX6	pCi/g														
C4114	6-7 bgs	B17HY2	pCi/g	0.014		0.005		0.2		0.005	1040	ug/kg	U		0.045	U	0.032
C4115	6-7 bgs	B17HY4	pCi/g														
C4115	6-7 bgs	B17HY8	pCi/g	0.02		0.005		0.27		0.012	1020	ug/kg	U		0.012	U	0.038
C4113	12.5-13.5 bgs	B17HR8	pCi/g	0.012		0.006		0.14		0.005	971	ug/kg	U		0.002	U	0.018
C4113	12.5-13.5 bgs	B17HT2	pCi/g														
C4114	12.5-13.5 bgs	B17HX7	pCi/g														
C4114	12.5-13.5 bgs	B17HY3	pCi/g	0.013		0.006		0.14		0.005	986	ug/kg	U		0.007	U	0.025
C4115	12.5-13.5 bgs	B17HY5	pCi/g														
C4115	12.5-13.5 bgs	B17HY9	pCi/g	0.008		0.006		0.1		0.005	979	ug/kg	U		0.025	U	0.044
C4115	dup of B17HX8	B17J02	pCi/g														
C4115	dup of B17HY6	B17J03	pCi/g	0.016		0.005	J	0.15		0.004	984	ug/kg	U		0.004	U	0.031
C4113	equip blank tied to B17HR5 & B17HR9	B17HR3	pCi/L								0.125	ug/L		0.035			
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	pCi/L	0.12		0.012		0.055		0.011	0.10	ug/L	U		-14.2	U	13.0
Target Quantitation Limit			pCi/g	1.00				1.00			1000						

* The intervals are referenced to the floor of the basin, which is approximately 7 feet below the surrounding ground surface.

a. Hanford did not process Thorium fuels, which result in U-233. Thus, all results are considered U-234.

b. Uranium reported in ug/kg.

bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
J = Estimated
MDA = Minimum detectable activity
Q = Qualifier
U = Undetected
UJ = Undetected, detection limit is estimated
Val Qual = Validation qualifier

Table B6-2. Metal Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Antimony		Arsenic		Barium		Beryllium		Bismuth			Boron		Cadmium		Chromium		Copper		Hexavalent Chromium		Lead	
Loc	Interval*	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg	4960	U	6670		1980	UE	2970	U	4990	U	UJ	5090	U	991	U	2970	U	9260				11900	U
C4113	1-2 bgs	B17HR9	ug/kg																				430	U		
C4114	1-2 bgs	B17HX4	ug/kg																				440	U		
C4115	1-2 bgs	B17HX8	ug/kg																				450	U		
C4114	1-2 bgs	B17HY0	ug/kg	4550	U	5660		1820	UE	2730	U	4980	U	UJ	5080	U	910	U	2730	U	8580				10900	U
C4115	1-2 bgs	B17HY6	ug/kg	4550	U	3880		1820	UE	2730	U	4920	U	UJ	5020	U	910	U	2730	U	8400				10900	U
C4113	2-3 bgs	B17HR6	ug/kg	4790	U	6560		1920	UE	2870	U	4940	U	UJ	5040	U	958	U	2870	U	9190				11500	U
C4113	2-3 bgs	B17HT0	ug/kg																				440	U		
C4114	2-3 bgs	B17HX5	ug/kg																				430	U		
C4115	2-3 bgs	B17HX9	ug/kg																				450	U		
C4114	2-3 bgs	B17HY1	ug/kg	4640	U	5720		1860	UE	2780	U	4980	U	UJ	5080	U	928	U	2780	U	9640				11100	U
C4115	2-3 bgs	B17HY7	ug/kg	4450	U	4140		1780	UE	2670	U	4950	U	UJ	5050	U	890	U	2670	U	9850				10700	U
C4113	6-7 bgs	B17HR7	ug/kg	4690	U	6380		1880	UE	2810	U	4960	U	UJ	5060	U	938	U	15500		8520				11300	U
C4113	6-7 bgs	B17HT1	ug/kg																				420	U		
C4114	6-7 bgs	B17HX6	ug/kg																				420	U		
C4114	6-7 bgs	B17HY2	ug/kg	4990	U	4460		53600		2990	U	4950	U		5050	U	998	U	7580		11000				12000	U
C4115	6-7 bgs	B17HY4	ug/kg																				420	U		
C4115	6-7 bgs	B17HY8	ug/kg	4980	U	9980		65500		2990	U	4980	U		5080	U	996	U	7200		10700				12000	U
C4113	12.5-13.5 bgs	B17HR8	ug/kg	4860	U	2910	U	21700	E	2910	U	4970	U		5070	U	971	U	2910	U	10700				11700	U
C4113	12.5-13.5 bgs	B17HT2	ug/kg																				410	U		
C4114	12.5-13.5 bgs	B17HX7	ug/kg																				410	U		
C4114	12.5-13.5 bgs	B17HY3	ug/kg	4930	U	2960	U	24600	E	2960	U	4980	U		5080	U	986	U	2960	U	8480				11800	U
C4115	12.5-13.5 bgs	B17HY5	ug/kg																				410	U		
C4115	12.5-13.5 bgs	B17HY9	ug/kg	4900	U	2940	U	15700	E	2940	U	5000	U		5100	U	979	U	2940	U	10100				11700	U
C4115	dup of B17HX8	B17J02	ug/kg																				440	U		
C4115	dup of B17HY6	B17J03	ug/kg	4920	U	5190		1970	UE	2950	U	4920	U	UJ	5010	U	984	U	2950	U	8590				11800	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L	0.50	U	0.30	U	0.20	U	0.30	U	100	U		102	U	0.10	U	0.30	U	1.66	C			1.20	U
C4113	equip blank tied to B17HR5 & B17HR9	B17J04	ug/L																				2.00	U		
Target Quantitation Limit			ug/kg	6000		10000		20000		500							500		1000		2500		500		10000	

Table B6-2. Metal Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Mercury		Nickel		Selenium		Silver	
Loc	Interval*	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg	991	U	4960	U	2970	U	1980	U
C4113	1-2 bgs	B17HR9	ug/kg								
C4114	1-2 bgs	B17HX4	ug/kg								
C4115	1-2 bgs	B17HX8	ug/kg								
C4114	1-2 bgs	B17HY0	ug/kg	910	U	4550	U	2730	U	1820	U
C4115	1-2 bgs	B17HY6	ug/kg	910	U	4550	U	2730	U	1820	U
C4113	2-3 bgs	B17HR6	ug/kg	958	U	4790	U	2870	U	1920	U
C4113	2-3 bgs	B17HT0	ug/kg								
C4114	2-3 bgs	B17HX5	ug/kg								
C4115	2-3 bgs	B17HX9	ug/kg								
C4114	2-3 bgs	B17HY1	ug/kg	928	U	4640	U	2780	U	1860	U
C4115	2-3 bgs	B17HY7	ug/kg	890	U	4450	U	2670	U	1780	U
C4113	6-7 bgs	B17HR7	ug/kg	938	U	5260		2810	U	1880	U
C4113	6-7 bgs	B17HT1	ug/kg								
C4114	6-7 bgs	B17HX6	ug/kg								
C4114	6-7 bgs	B17HY2	ug/kg	998	U	9800		2990	U	2000	U
C4115	6-7 bgs	B17HY4	ug/kg								
C4115	6-7 bgs	B17HY8	ug/kg	996	U	9010		2990	U	5010	
C4113	12.5-13.5 bgs	B17HR8	ug/kg	971	U	4860	U	2910	U	2040	
C4113	12.5-13.5 bgs	B17HT2	ug/kg								
C4114	12.5-13.5 bgs	B17HX7	ug/kg								
C4114	12.5-13.5 bgs	B17HY3	ug/kg	986	U	6500	U	2960	U	1970	U
C4115	12.5-13.5 bgs	B17HY5	ug/kg								
C4115	12.5-13.5 bgs	B17HY9	ug/kg	979	U	4900	U	2940	U	1960	U
C4115	dup of B17HX8	B17J02	ug/kg								
C4115	dup of B17HY6	B17J03	ug/kg	984	U	4920	U	2950	U	1970	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L	0.10	U	0.50	U	0.30	U	0.21	C
C4113	equip blank tied to B17HR5 & B17HR9	B17J04	ug/L								
Target Quantitation Limit			ug/kg	200		4000		10000		2000	

* The intervals are referenced to the floor of the basin, which is approximately 7 feet below the surrounding ground surface.

bgs = Below ground surface
C = Identification of the pesticide confirmed by gas chromatograph/mass spectrometer
dup = Duplicate
E = Estimated
HEIS = Hanford Environmental Information System
Q = Qualifier
U = Undetected
UJ = Undetected, detection limit is estimated

Table B6-3. General Inorganic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Ammonia as N		Chloride		Cyanide		Fluoride		Nitrate as N		Nitrite as N		Nitrogen in Nitrite and Nitrate		Percent moisture (dry sample)		Percent moisture (wet sample)	
Loc	Interval*	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg	248	B	1750	B	200	U	350	U	1310	B	450	U						
C4113	1-2 bgs	B17HR9	ug/kg													1000					
C4114	1-2 bgs	B17HX4	ug/kg													8900					
C4115	1-2 bgs	B17HX8	ug/kg													1600					
C4114	1-2 bgs	B17HY0	ug/kg	200	U	3660	B	200	U	350	U	2290	B	450	U						
C4115	1-2 bgs	B17HY6	ug/kg	222	B	1330	B	200	U	350	U	1280	B	450	U						
C4113	1-2 bgs	B17J01	%															8.90		9.80	
C4113	2-3 bgs	B17HR6	ug/kg	200	U	2690	B	200	U	350	U	4560	B	450	U						
C4113	2-3 bgs	B17HT0	ug/kg													5100					
C4114	2-3 bgs	B17HX5	ug/kg													20900	D				
C4115	2-3 bgs	B17HX9	ug/kg													920					
C4114	2-3 bgs	B17HY1	ug/kg	200	U	3940	B	200	U	350	U	21800	B	450	U						
C4115	2-3 bgs	B17HY7	ug/kg	200	U	858	B	200	U	350	U	250	U	450	U						
C4113	6-7 bgs	B17HR7	ug/kg	200	U	2130	B	200	U	350	U	250	U	450	U						
C4113	6-7 bgs	B17HT1	ug/kg													1100					
C4114	6-7 bgs	B17HX6	ug/kg													4500					
C4114	6-7 bgs	B17HY2	ug/kg	200	U	1890		200	U	350	U	3550		450	U						
C4115	6-7 bgs	B17HY4	ug/kg													13200	D				
C4115	6-7 bgs	B17HY8	ug/kg	200	U	6940		200	U	350	U	11900		450	U						
C4113	7-8 bgs	B17J07	%															12.5		14.2	
C4113	12.5-13.5 bgs	B17HR8	ug/kg	200	U	1640	B	200	U	350	U	581	B	450	U						
C4113	12.5-13.5 bgs	B17HT2	ug/kg													530					
C4114	12.5-13.5 bgs	B17HX7	ug/kg													2400					
C4114	12.5-13.5 bgs	B17HY3	ug/kg	200	U	7560	B	200	U	350	U	2060	B	450	U						
C4115	12.5-13.5 bgs	B17HY5	ug/kg													2300					
C4115	12.5-13.5 bgs	B17HY9	ug/kg	200	U	1750	B	200	U	350	U	2350	B	450	U						
C4113	12.5-13.5 bgs	B17JM0	%															3.20		3.30	
C4115	dup of B17HX8	B17J02	ug/kg													1300					
C4115	dup of B17HY6	B17J03	ug/kg	248	B	1280	B	200	U	350	U	1030	B	450	U						
C4113	equip blank tied to B17HR5 & B17HR9	B17HR3	ug/L	100	U											20.0	U				
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L	4.00	U	30.0	U	4.00	U	8.00	U	3.00	U	3.00	U						
Target Quantitation Limit			ug/kg	500		2000		500		5000		2500		2500							

Table B6-3. General Inorganic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Percent Solids		pH Measurement			Phosphate		Sulfate	
Loc	Interval*	HEIS	Units	Result	Q	Result	Units	Q	Result	Q	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg			8.77	pH		650	U	10400	B
C4113	1-2 bgs	B17HR9	ug/kg									
C4114	1-2 bgs	B17HX4	ug/kg									
C4115	1-2 bgs	B17HX8	ug/kg									
C4114	1-2 bgs	B17HY0	ug/kg			8.65	pH		650	U	8520	B
C4115	1-2 bgs	B17HY6	ug/kg			8.66	pH		650	U	1200	U
C4113	1-2 bgs	B17J01	%	91.1								
C4113	2-3 bgs	B17HR6	ug/kg			8.81	pH		650	U	11600	B
C4113	2-3 bgs	B17HT0	ug/kg									
C4114	2-3 bgs	B17HX5	ug/kg									
C4115	2-3 bgs	B17HX9	ug/kg									
C4114	2-3 bgs	B17HY1	ug/kg			8.39	pH		650	U	19800	B
C4115	2-3 bgs	B17HY7	ug/kg			8.75	pH		650	U	7630	B
C4113	6-7 bgs	B17HR7	ug/kg			9.52	pH		650	U	10200	B
C4113	6-7 bgs	B17HT1	ug/kg									
C4114	6-7 bgs	B17HX6	ug/kg									
C4114	6-7 bgs	B17HY2	ug/kg			9.02	pH		650	U	22700	B
C4115	6-7 bgs	B17HY4	ug/kg									
C4115	6-7 bgs	B17HY8	ug/kg			8.54	pH		650	U	15300	
C4113	7-8 bgs	B17J07	%	87.5								
C4113	12.5-13.5 bgs	B17HR8	ug/kg			9.32	pH		650	U	5840	B
C4113	12.5-13.5 bgs	B17HT2	ug/kg									
C4114	12.5-13.5 bgs	B17HX7	ug/kg									
C4114	12.5-13.5 bgs	B17HY3	ug/kg			8.72	pH		650	U	53000	B
C4115	12.5-13.5 bgs	B17HY5	ug/kg									
C4115	12.5-13.5 bgs	B17HY9	ug/kg			9.34	pH		650	U	6510	B
C4113	12.5-13.5 bgs	B17JM0	%	96.8								
C4115	dup of B17HX8	B17J02	ug/kg									
C4115	dup of B17HY6	B17J03	ug/kg			8.74	pH		650	U	1200	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR3	ug/L									
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L						20.0	U	30.0	U
Target Quantitation Limit			ug/kg						5000		5000	

* The intervals are referenced to the floor of the basin, which is approximately 7 feet below the surrounding ground surface.

B = Analyte found in associated method blank
bgs = Below ground surface
D = Sample reanalyzed at higher dilution factor
dup = Duplicate
HEIS = Hanford Environmental Information System
Q = Qualifier
U = Undetected

Table B6-4. Volatile Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				1 1 1-Trichloro ethane		1 1 2 2-Tetrachloro ethane		1 1 2-Trichloro ethane		1 1-Dichloro ethane		1 1-Dichloro ethene		1 2-Dichloro ethane		1 2-Dichloro ethene(Total)	
Loc	Interval*	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U
C4114	1-2 bgs	B17HY0	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U
C4115	1-2 bgs	B17HY6	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U
C4113	2-3 bgs	B17HR6	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U
C4114	2-3 bgs	B17HY1	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U
C4115	2-3 bgs	B17HY7	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U
C4113	6-7 bgs	B17HR7	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U
C4114	6-7 bgs	B17HY2	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U
C4115	6-7 bgs	B17HY8	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U
C4113	12.5-13.5 bgs	B17HR8	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U
C4114	12.5-13.5 bgs	B17HY3	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U
C4115	12.5-13.5 bgs	B17HY9	ug/kg	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U
C4115	dup of B17HY6	B17J03	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U
Target Quantitation Limit			ug/kg	5.00						10.0				5.00		10.0	

Table B6-4. Volatile Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				1 2-Dichloro propane		1-Butanol		2-Butanone		2-Hexanone		2-Pentanone		4-Methyl-2-Pentanone		Acetone			Benzene	
Loc	Interval*	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg	2.20	U	43.0	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U		2.20	U
C4114	1-2 bgs	B17HY0	ug/kg	2.20	U	44.0	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U		2.20	U
C4115	1-2 bgs	B17HY6	ug/kg	2.20	U	44.0	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U		2.20	U
C4113	2-3 bgs	B17HR6	ug/kg	2.20	U	44.0	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U		2.20	U
C4114	2-3 bgs	B17HY1	ug/kg	2.20	U	43.0	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U		2.20	U
C4115	2-3 bgs	B17HY7	ug/kg	2.20	U	45.0	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U		2.20	U
C4113	6-7 bgs	B17HR7	ug/kg	2.10	U	42.0	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U		2.10	U
C4114	6-7 bgs	B17HY2	ug/kg	2.10	U	42.0	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U		2.10	U
C4115	6-7 bgs	B17HY8	ug/kg	2.10	U	42.0	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U		2.10	U
C4113	12.5-13.5 bgs	B17HR8	ug/kg	2.10	U	41.0	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U		2.10	U
C4114	12.5-13.5 bgs	B17HY3	ug/kg	2.10	U	41.0	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U		2.10	U
C4115	12.5-13.5 bgs	B17HY9	ug/kg	2.00	U	41.0	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U		2.00	U
C4115	dup of B17HY6	B17J03	ug/kg	2.20	U	44.0	U	2.20	U	2.20	U	2.20	U	2.20	U	26.00	B	U	2.20	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L	1.00	U	20.0	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U		1.00	U
Target Quantitation Limit			ug/kg			5000		10.0						10.0		20.0			5.00	

Table B6-4. Volatile Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Bromodichloro methane		Bromo form		Bromo methane		Carbon disulfide		Carbon tetra chloride		Chloro benzene		Chloro ethane		Chloroform		
Loc	Interval[•]	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual
C4113	1-2 bgs	B17HR5	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	
C4114	1-2 bgs	B17HY0	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	
C4115	1-2 bgs	B17HY6	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	
C4113	2-3 bgs	B17HR6	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	
C4114	2-3 bgs	B17HY1	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	
C4115	2-3 bgs	B17HY7	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	
C4113	6-7 bgs	B17HR7	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	
C4114	6-7 bgs	B17HY2	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	
C4115	6-7 bgs	B17HY8	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	
C4113	12.5-13.5 bgs	B17HR8	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	
C4114	12.5-13.5 bgs	B17HY3	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	
C4115	12.5-13.5 bgs	B17HY9	ug/kg	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U	
C4115	dup of B17HY6	B17J03	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U	5.00	BJ	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	
Target Quantitation Limit			ug/kg									5.00		5.00				5.00		

Table B6-4. Volatile Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Chloro methane		cis-1 3-Dichloro propene		Dibromochloro methane		Ethyl benzene		Methylene chloride			n-Butyl benzene		Styrene		Tetrachloro ethene	
Loc	Interval[a]	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U		2.20	U	2.20	U	2.20	U
C4114	1-2 bgs	B17HY0	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U		2.20	U	2.20	U	2.20	U
C4115	1-2 bgs	B17HY6	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U		2.20	U	2.20	U	2.20	U
C4113	2-3 bgs	B17HR6	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U		2.20	U	2.20	U	2.20	U
C4114	2-3 bgs	B17HY1	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U		2.20	U	2.20	U	2.20	U
C4115	2-3 bgs	B17HY7	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U		2.20	U	2.20	U	2.20	U
C4113	6-7 bgs	B17HR7	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U		2.10	U	2.10	U	2.10	U
C4114	6-7 bgs	B17HY2	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U		2.10	U	2.10	U	2.10	U
C4115	6-7 bgs	B17HY8	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U		2.10	U	2.10	U	2.10	U
C4113	12.5-13.5 bgs	B17HR8	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U		2.10	U	2.10	U	2.10	U
C4114	12.5-13.5 bgs	B17HY3	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U		2.10	U	2.10	U	2.10	U
C4115	12.5-13.5 bgs	B17HY9	ug/kg	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U		2.00	U	2.00	U	2.00	U
C4115	dup of B17HY6	B17J03	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	5.00	BJ	U	2.20	U	2.20	U	2.20	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U		1.00	U	1.00	U	1.00	U
Target Quantitation Limit			ug/kg							5.00		5.00			5.00				5.00	

Table B6-4. Volatile Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Toluene		trans-1 3-Dichloro propene		Trichloro ethene		Vinyl chloride		Xylenes (total)	
Loc	Interval*	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U
C4114	1-2 bgs	B17HY0	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U
C4115	1-2 bgs	B17HY6	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U
C4113	2-3 bgs	B17HR6	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U
C4114	2-3 bgs	B17HY1	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U
C4115	2-3 bgs	B17HY7	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U
C4113	6-7 bgs	B17HR7	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U
C4114	6-7 bgs	B17HY2	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U
C4115	6-7 bgs	B17HY8	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U
C4113	12.5-13.5 bgs	B17HR8	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U
C4114	12.5-13.5 bgs	B17HY3	ug/kg	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U
C4115	12.5-13.5 bgs	B17HY9	ug/kg	2.00	U	2.00	U	2.00	U	2.00	U	2.00	U
C4115	dup of B17HY6	B17J03	ug/kg	2.20	U	2.20	U	2.20	U	2.20	U	2.20	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U
Target Quantitation Limit			ug/kg	5.00				5.00				5.00	

* The intervals are referenced to the floor of the basin, which is approximately 7 feet below the surrounding ground surface.

B = Analyte found in associated method blank
bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
J = Estimated
Q = Qualifier
U = Undetected

Table B6-5. Semi-Volatile Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				1 2 4-Trichloro benzene		1 2-Dichloro benzene		1 3-Dichloro benzene		1 4-Dichloro benzene		2 4 5-Trichloro phenol		2 4 6-Trichloro phenol		2 4-Dichloro phenol		2 4-Dimethyl phenol	
Loc	Interval*	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg	320	U	390	U	350	U	340	U	79.0	U	72.0	U	86.0	U	72.0	U
C4114	1-2 bgs	B17HY0	ug/kg	320	U	390	U	350	U	340	U	79.0	U	72.0	U	87.0	U	72.0	U
C4115	1-2 bgs	B17HY6	ug/kg	320	U	400	U	350	U	340	U	81.0	U	73.0	U	88.0	U	73.0	U
C4113	2-3 bgs	B17HR6	ug/kg	320	U	390	U	350	U	340	U	80.0	U	73.0	U	87.0	U	73.0	U
C4114	2-3 bgs	B17HY1	ug/kg	310	U	390	U	340	U	340	U	79.0	U	71.0	U	86.0	U	71.0	U
C4115	2-3 bgs	B17HY7	ug/kg	320	U	400	U	350	U	350	U	81.0	U	74.0	U	88.0	U	74.0	U
C4113	6-7 bgs	B17HR7	ug/kg	300	U	370	U	330	U	320	U	76.0	U	69.0	U	83.0	U	69.0	U
C4114	6-7 bgs	B17HY2	ug/kg	310	U	380	U	330	U	330	U	77.0	U	70.0	U	84.0	U	70.0	U
C4115	6-7 bgs	B17HY8	ug/kg	310	U	380	U	340	U	330	U	78.0	U	71.0	U	85.0	U	71.0	U
C4113	12.5-13.5 bgs	B17HR8	ug/kg	300	U	370	U	330	U	320	U	75.0	U	69.0	U	82.0	U	69.0	U
C4114	12.5-13.5 bgs	B17HY3	ug/kg	300	U	370	U	330	U	320	U	75.0	U	68.0	U	82.0	U	68.0	U
C4115	12.5-13.5 bgs	B17HY9	ug/kg	300	U	370	U	330	U	320	U	75.0	U	68.0	U	82.0	U	68.0	U
C4115	dup of B17HY6	B17J03	ug/kg	320	U	400	U	350	U	340	U	81.0	U	73.0	U	88.0	U	73.0	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L	3.00	U	4.20	U	5.20	U	5.00	U	1.90	U	2.40	U	1.40	U	4.30	U

Table B6-5. Semi-Volatile Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				2 4-Dinitro phenol		2 4-Dinitro toluene		2 6-Dinitro toluene		2-Butoxy ethanol		2-Chlorona phthalene		2-Chloro phenol		2-Methylna phthalene		2-Methylphenol (cresol o-)		2-Nitro aniline	
Loc	Interval*	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg	720	U	72.0	U	72.0	U	110	U	72.0	U	160	U	190	U	72.0	U	72.0	U
C4114	1-2 bgs	B17HY0	ug/kg	720	U	72.0	U	72.0	U	110	U	72.0	U	160	U	200	U	72.0	U	72.0	U
C4115	1-2 bgs	B17HY6	ug/kg	730	U	73.0	U	73.0	U	110	U	73.0	U	160	U	200	U	73.0	U	73.0	U
C4113	2-3 bgs	B17HR6	ug/kg	730	U	73.0	U	73.0	U	110	U	73.0	U	160	U	200	U	73.0	U	73.0	U
C4114	2-3 bgs	B17HY1	ug/kg	710	U	71.0	U	71.0	U	110	U	71.0	U	160	U	190	U	71.0	U	71.0	U
C4115	2-3 bgs	B17HY7	ug/kg	740	U	74.0	U	74.0	U	110	U	74.0	U	160	U	200	U	74.0	U	74.0	U
C4113	6-7 bgs	B17HR7	ug/kg	690	U	69.0	U	69.0	U	100	U	69.0	U	150	U	190	U	69.0	U	69.0	U
C4114	6-7 bgs	B17HY2	ug/kg	700	U	70.0	U	70.0	U	100	U	70.0	U	150	U	190	U	70.0	U	70.0	U
C4115	6-7 bgs	B17HY8	ug/kg	710	U	71.0	U	71.0	U	110	U	71.0	U	160	U	190	U	71.0	U	71.0	U
C4113	12.5-13.5 bgs	B17HR8	ug/kg	690	U	69.0	U	69.0	U	100	U	69.0	U	150	U	190	U	69.0	U	69.0	U
C4114	12.5-13.5 bgs	B17HY3	ug/kg	680	U	68.0	U	68.0	U	100	U	68.0	U	150	U	180	U	68.0	U	68.0	U
C4115	12.5-13.5 bgs	B17HY9	ug/kg	680	U	68.0	U	68.0	U	100	U	68.0	U	150	U	180	U	68.0	U	68.0	U
C4115	dup of B17HY6	B17J03	ug/kg	730	U	73.0	U	73.0	U	110	U	73.0	U	160	U	200	U	73.0	U	73.0	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L	3.30	U	1.80	U	2.20	U	3.10	U	2.30	U	1.70	U	1.90	U	2.30	U	2.10	U

Table B6-5. Semi-Volatile Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				2-Nitro phenol		3 3'-Dichloro benzidine		3+4 Methylphenol (cresol m+p)		3-Nitro aniline		4 6-Dinitro-2-methylphenol		4-Bromo phenylphenyl ether		4-Chloro-3-methylphenol	
Loc	Interval*	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg	190	U	86.0	U	120	U	72.0	U	720	U	72.0	U	72.0	U
C4114	1-2 bgs	B17HY0	ug/kg	190	U	87.0	U	120	U	72.0	U	720	U	72.0	U	72.0	U
C4115	1-2 bgs	B17HY6	ug/kg	190	U	88.0	U	120	U	73.0	U	730	U	73.0	U	73.0	U
C4113	2-3 bgs	B17HR6	ug/kg	190	U	87.0	U	120	U	73.0	U	730	U	73.0	U	73.0	U
C4114	2-3 bgs	B17HY1	ug/kg	190	U	86.0	U	120	U	71.0	U	710	U	71.0	U	71.0	U
C4115	2-3 bgs	B17HY7	ug/kg	190	U	88.0	U	120	U	74.0	U	740	U	74.0	U	74.0	U
C4113	6-7 bgs	B17HR7	ug/kg	180	U	83.0	U	120	U	69.0	U	690	U	69.0	U	69.0	U
C4114	6-7 bgs	B17HY2	ug/kg	180	U	84.0	U	120	U	70.0	U	700	U	70.0	U	70.0	U
C4115	6-7 bgs	B17HY8	ug/kg	180	U	85.0	U	120	U	71.0	U	710	U	71.0	U	71.0	U
C4113	12.5-13.5 bgs	B17HR8	ug/kg	180	U	82.0	U	120	U	69.0	U	690	U	69.0	U	69.0	U
C4114	12.5-13.5 bgs	B17HY3	ug/kg	180	U	82.0	U	120	U	68.0	U	680	U	68.0	U	68.0	U
C4115	12.5-13.5 bgs	B17HY9	ug/kg	180	U	82.0	U	120	U	68.0	U	680	U	68.0	U	68.0	U
C4115	dup of B17HY6	B17J03	ug/kg	190	U	88.0	U	120	U	73.0	U	730	U	73.0	U	73.0	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L	2.00	U	4.10	U	3.20	U	4.50	U	1.70	U	1.90	U	1.30	U

Table B6-5. Semi-Volatile Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				4-Chloro aniline		4-Chloro phenylphenyl ether		4-Nitro aniline		4-Nitro phenol		Acena phthene		Acena phthylene		Anthra cene		Benzo(a) anthracene		Benzo(a) pyrene	
Loc	Interval[•]	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg	100	U	72.0	U	270	U	700	U	72.0	U	86.0	U	72.0	U	72.0	U	72.0	U
C4114	1-2 bgs	B17HY0	ug/kg	100	U	72.0	U	270	U	700	U	72.0	U	87.0	U	72.0	U	72.0	U	72.0	U
C4115	1-2 bgs	B17HY6	ug/kg	100	U	73.0	U	270	U	710	U	73.0	U	88.0	U	73.0	U	73.0	U	73.0	U
C4113	2-3 bgs	B17HR6	ug/kg	100	U	73.0	U	270	U	710	U	73.0	U	87.0	U	73.0	U	73.0	U	73.0	U
C4114	2-3 bgs	B17HY1	ug/kg	100	U	71.0	U	260	U	690	U	71.0	U	86.0	U	71.0	U	71.0	U	71.0	U
C4115	2-3 bgs	B17HY7	ug/kg	100	U	74.0	U	270	U	710	U	74.0	U	88.0	U	74.0	U	74.0	U	74.0	U
C4113	6-7 bgs	B17HR7	ug/kg	96.0	U	69.0	U	250	U	670	U	69.0	U	83.0	U	69.0	U	69.0	U	69.0	U
C4114	6-7 bgs	B17HY2	ug/kg	98.0	U	70.0	U	260	U	680	U	70.0	U	84.0	U	70.0	U	70.0	U	70.0	U
C4115	6-7 bgs	B17HY8	ug/kg	99.0	U	71.0	U	260	U	680	U	71.0	U	85.0	U	71.0	U	71.0	U	71.0	U
C4113	12.5-13.5 bgs	B17HR8	ug/kg	96.0	U	69.0	U	250	U	670	U	69.0	U	82.0	U	69.0	U	69.0	U	69.0	U
C4114	12.5-13.5 bgs	B17HY3	ug/kg	96.0	U	68.0	U	250	U	660	U	68.0	U	82.0	U	68.0	U	68.0	U	68.0	U
C4115	12.5-13.5 bgs	B17HY9	ug/kg	95.0	U	68.0	U	250	U	660	U	68.0	U	82.0	U	68.0	U	68.0	U	68.0	U
C4115	dup of B17HY6	B17J03	ug/kg	100	U	73.0	U	270	U	710	U	73.0	U	88.0	U	73.0	U	73.0	U	73.0	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L	7.20	U	2.20	U	2.90	U	1.40	U	2.40	U	2.30	U	2.00	U	2.10	U	2.10	U

Table B6-5. Semi-Volatile Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Benzo(b) fluoranthene		Benzo(ghi) perylene		Benzo(k) fluoranthene		Benzyl alcohol		Bis(2-chloro-1-methylethyl)ether		Bis(2-Chloroethoxy) methane		Bis(2-chloroethyl) ether	
Loc	Interval*	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg	72.0	U	72.0	U	72.0	U	79.0	U	270	U	120	U	270	U
C4114	1-2 bgs	B17HY0	ug/kg	72.0	U	72.0	U	72.0	U	79.0	U	270	U	120	U	270	U
C4115	1-2 bgs	B17HY6	ug/kg	73.0	U	73.0	U	73.0	U	81.0	U	280	U	120	U	270	U
C4113	2-3 bgs	B17HR6	ug/kg	73.0	U	73.0	U	73.0	U	80.0	U	280	U	120	U	270	U
C4114	2-3 bgs	B17HY1	ug/kg	71.0	U	71.0	U	71.0	U	79.0	U	270	U	120	U	260	U
C4115	2-3 bgs	B17HY7	ug/kg	74.0	U	74.0	U	74.0	U	81.0	U	280	U	120	U	270	U
C4113	6-7 bgs	B17HR7	ug/kg	69.0	U	69.0	U	69.0	U	76.0	U	260	U	120	U	250	U
C4114	6-7 bgs	B17HY2	ug/kg	70.0	U	70.0	U	70.0	U	77.0	U	270	U	120	U	260	U
C4115	6-7 bgs	B17HY8	ug/kg	71.0	U	71.0	U	71.0	U	78.0	U	270	U	120	U	260	U
C4113	12.5-13.5 bgs	B17HR8	ug/kg	69.0	U	69.0	U	69.0	U	75.0	U	260	U	120	U	250	U
C4114	12.5-13.5 bgs	B17HY3	ug/kg	68.0	U	68.0	U	68.0	U	75.0	U	260	U	120	U	250	U
C4115	12.5-13.5 bgs	B17HY9	ug/kg	68.0	U	68.0	U	68.0	U	75.0	U	260	U	120	U	250	U
C4115	dup of B17HY6	B17J03	ug/kg	73.0	U	73.0	U	73.0	U	81.0	U	280	U	120	U	270	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L	1.70	U	2.50	U	2.80	U	1.80	U	2.10	U	2.00	U	3.40	U

Table B6-5. Semi-Volatile Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Bis (2-ethylhexyl) phthalate		Butylbenzyl phthalate		Carbazole		Chrysene		Dibenz[a h] anthracene	
Loc	Interval[a]	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg	600	U	110	J	86.0	U	72.0	U	72.0	U
C4114	1-2 bgs	B17HY0	ug/kg	610	U	72.0	U	87.0	U	72.0	U	72.0	U
C4115	1-2 bgs	B17HY6	ug/kg	620	U	73.0	U	88.0	U	73.0	U	73.0	U
C4113	2-3 bgs	B17HR6	ug/kg	610	U	73.0	U	87.0	U	73.0	U	73.0	U
C4114	2-3 bgs	B17HY1	ug/kg	600	U	71.0	U	86.0	U	71.0	U	71.0	U
C4115	2-3 bgs	B17HY7	ug/kg	620	U	74.0	U	88.0	U	74.0	U	74.0	U
C4113	6-7 bgs	B17HR7	ug/kg	580	U	69.0	U	83.0	U	69.0	U	69.0	U
C4114	6-7 bgs	B17HY2	ug/kg	590	U	70.0	U	84.0	U	70.0	U	70.0	U
C4115	6-7 bgs	B17HY8	ug/kg	590	U	71.0	U	85.0	U	71.0	U	71.0	U
C4113	12.5-13.5 bgs	B17HR8	ug/kg	580	U	69.0	U	82.0	U	69.0	U	69.0	U
C4114	12.5-13.5 bgs	B17HY3	ug/kg	570	U	68.0	U	82.0	U	68.0	U	68.0	U
C4115	12.5-13.5 bgs	B17HY9	ug/kg	570	U	68.0	U	82.0	U	68.0	U	68.0	U
C4115	dup of B17HY6	B17J03	ug/kg	620	U	73	U	88.0	U	73.0	U	73.0	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L	2.60	U	2.00	U	1.40	U	2.30	U	2.60	U

Table B6-5. Semi-Volatile Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Dibenzo furan		Diethyl phthalate		Dimethyl phthalate		Di-n-butyl phthalate		Di-n-octyl phthalate		Fluor anthene		Fluorene		Hexachloro benzene		Hexachlorob utadiene	
Loc	Interval*	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg	72.0	U	320	J	72.0	U	94.0	U	72.0	U	72.0	U	72.0	U	72.0	U	400	U
C4114	1-2 bgs	B17HY0	ug/kg	72.0	U	200	U	72.0	U	94.0	U	72.0	U	72.0	U	72.0	U	72.0	U	400	U
C4115	1-2 bgs	B17HY6	ug/kg	73.0	U	210	U	73.0	U	95.0	U	73.0	U	73.0	U	73.0	U	73.0	U	400	U
C4113	2-3 bgs	B17HR6	ug/kg	73.0	U	310	J	73.0	U	95.0	U	73.0	U	73.0	U	73.0	U	73.0	U	400	U
C4114	2-3 bgs	B17HY1	ug/kg	71.0	U	200	U	71.0	U	93.0	U	71.0	U	71.0	U	71.0	U	71.0	U	390	U
C4115	2-3 bgs	B17HY7	ug/kg	74.0	U	210	U	74.0	U	96.0	U	74.0	U	74.0	U	74.0	U	74.0	U	400	U
C4113	6-7 bgs	B17HR7	ug/kg	69.0	U	190	U	69.0	U	90.0	U	69.0	U	69.0	U	69.0	U	69.0	U	380	U
C4114	6-7 bgs	B17HY2	ug/kg	70.0	U	200	U	70.0	U	91.0	U	70.0	U	70.0	U	70.0	U	70.0	U	380	U
C4115	6-7 bgs	B17HY8	ug/kg	71.0	U	200	U	71.0	U	92.0	U	71.0	U	71.0	U	71.0	U	71.0	U	390	U
C4113	12.5-13.5 bgs	B17HR8	ug/kg	69.0	U	260	J	69.0	U	89.0	U	69.0	U	69.0	U	69.0	U	69.0	U	380	U
C4114	12.5-13.5 bgs	B17HY3	ug/kg	68.0	U	210	J	68.0	U	89.0	U	68.0	U	68.0	U	68.0	U	68.0	U	380	U
C4115	12.5-13.5 bgs	B17HY9	ug/kg	68.0	U	190	U	68.0	U	89.0	U	68.0	U	68.0	U	68.0	U	68.0	U	370	U
C4115	dup of B17HY6	B17J03	ug/kg	73.0	U	210	U	73.0	U	95.0	U	73.0	U	73.0	U	73.0	U	73.0	U	400	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L	1.90	U	6.30	U	2.10	U	2.10	U	2.50	U	2.10	U	2.00	U	2.10	U	3.60	U
Target Quantitation Limit			ug/kg																		

Table B6-5. Semi-Volatile Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Hexachloro cyclopentadiene		Hexachloro ethane		Indeno(1 2 3-cd)pyrene		Iso phorone		Naph thalene		n-Butyl benzene sulfonamide		Nitro benzene	
Loc	Interval*	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg	340	U	500	U	72.0	U	72.0	U	310	U	1800	J	280	U
C4114	1-2 bgs	B17HY0	ug/kg	340	U	510	U	72.0	U	72.0	U	310	U			280	U
C4115	1-2 bgs	B17HY6	ug/kg	340	U	510	U	73.0	U	73.0	U	320	U			290	U
C4113	2-3 bgs	B17HR6	ug/kg	340	U	510	U	73.0	U	73.0	U	310	U			280	U
C4114	2-3 bgs	B17HY1	ug/kg	340	U	500	U	71.0	U	71.0	U	310	U			280	U
C4115	2-3 bgs	B17HY7	ug/kg	350	U	510	U	74.0	U	74.0	U	320	U			290	U
C4113	6-7 bgs	B17HR7	ug/kg	320	U	480	U	69.0	U	69.0	U	300	U			270	U
C4114	6-7 bgs	B17HY2	ug/kg	330	U	490	U	70.0	U	70.0	U	300	U			270	U
C4115	6-7 bgs	B17HY8	ug/kg	330	U	490	U	71.0	U	71.0	U	300	U			270	U
C4113	12.5-13.5 bgs	B17HR8	ug/kg	320	U	480	U	69.0	U	69.0	U	290	U			270	U
C4114	12.5-13.5 bgs	B17HY3	ug/kg	320	U	480	U	68.0	U	68.0	U	290	U			270	U
C4115	12.5-13.5 bgs	B17HY9	ug/kg	320	U	480	U	68.0	U	68.0	U	290	U			270	U
C4115	dup of B17HY6	B17J03	ug/kg	340	U	510	U	73.0	U	73.0	U	320	U			290	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L	7.80	U	5.50	U	2.60	U	1.90	U	2.40	U			2.00	U
Target Quantitation Limit			ug/kg														

Table B6-5. Semi-Volatile Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				N-Nitrosodi-n-dipropylamine		N-Nitro sodiphenylamine		Pentachloro phenol		Phen anthrene		Phenol		Pyrene		Tributyl Phosphate	
Loc	Interval*	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg	72.0	U	72.0	U	320	U	72.0	U	110	U	72.0	U	72.0	U
C4114	1-2 bgs	B17HY0	ug/kg	72.0	U	72.0	U	330	U	72.0	U	110	U	72.0	U	72.0	U
C4115	1-2 bgs	B17HY6	ug/kg	73.0	U	73.0	U	330	U	73.0	U	110	U	73.0	U	73.0	U
C4113	2-3 bgs	B17HR6	ug/kg	73.0	U	73.0	U	330	U	73.0	U	110	U	73.0	U	73.0	U
C4114	2-3 bgs	B17HY1	ug/kg	71.0	U	71.0	U	320	U	71.0	U	110	U	71.0	U	71.0	U
C4115	2-3 bgs	B17HY7	ug/kg	74.0	U	74.0	U	330	U	74.0	U	110	U	74.0	U	74.0	U
C4113	6-7 bgs	B17HR7	ug/kg	69.0	U	69.0	U	310	U	69.0	U	100	U	69.0	U	69.0	U
C4114	6-7 bgs	B17HY2	ug/kg	70.0	U	70.0	U	310	U	70.0	U	100	U	70.0	U	70.0	U
C4115	6-7 bgs	B17HY8	ug/kg	71.0	U	71.0	U	320	U	71.0	U	110	U	71.0	U	71.0	U
C4113	12.5-13.5 bgs	B17HR8	ug/kg	69.0	U	69.0	U	310	U	69.0	U	100	U	69.0	U	69.0	U
C4114	12.5-13.5 bgs	B17HY3	ug/kg	68.0	U	68.0	U	310	U	68.0	U	100	U	68.0	U	68.0	U
C4115	12.5-13.5 bgs	B17HY9	ug/kg	68.0	U	68.0	U	310	U	68.0	U	100	U	68.0	U	68.0	U
C4115	dup of B17HY6	B17J03	ug/kg	73.0	U	73.0	U	330	U	73.0	U	110	U	73.0	U	73.0	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L	1.70	U	2.30	U	1.70	U	2.20	U	1.70	U	2.10	U	2.50	U
Target Quantitation Limit			ug/kg									330				3300	

* The intervals are referenced to the floor of the basin, which is approximately 7 feet below the surrounding ground surface.

bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
Q = Qualifier
U = Undetected

Table B6-6. Miscellaneous Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Endosulfan I			Endrin			Heptachlor			2 4 5-Trichlorophenoxyacetic acid			2 4-Dichlorophenoxyacetic acid			2-(2 4 5-Trichlorophenoxy) propionic acid		
Loc	Interval*	HEIS	Units	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual
C4113	1-2 bgs	B17HR5	ug/kg																		
C4113	1-2 bgs	B17HR9	ug/kg	1.80	U	UJ	3.60	U	UJ	1.80	U	UJ	18.0	U	UJ	36.0	U	UJ	18.0	U	UJ
C4114	1-2 bgs	B17HX4	ug/kg	1.80	U		3.60	U		1.80	U		18.0	U		36.0	U		3.30	J	
C4115	1-2 bgs	B17HX8	ug/kg	1.90	U		3.70	U		1.90	U		19.0	U	UJ	7.10	J		19.0	U	
C4114	1-2 bgs	B17HY0	ug/kg																		
C4115	1-2 bgs	B17HY6	ug/kg																		
C4113	2-3 bgs	B17HR6	ug/kg																		
C4113	2-3 bgs	B17HT0	ug/kg																		
C4114	2-3 bgs	B17HX5	ug/kg																		
C4115	2-3 bgs	B17HX9	ug/kg	1.90	U		3.70	U		1.90	U		19.0	U		37.0	U		19.0	U	
C4114	2-3 bgs	B17HY1	ug/kg																		
C4115	2-3 bgs	B17HY7	ug/kg																		
C4113	6-7 bgs	B17HR7	ug/kg																		
C4113	6-7 bgs	B17HT1	ug/kg																		
C4114	6-7 bgs	B17HX6	ug/kg																		
C4114	6-7 bgs	B17HY2	ug/kg																		
C4115	6-7 bgs	B17HY4	ug/kg	1.80	U		3.50	U		1.80	U		18.0	U		35.0	U		18.0	U	
C4115	6-7 bgs	B17HY8	ug/kg																		
C4113	12.5-13.5 bgs	B17HR8	ug/kg																		
C4113	12.5-13.5 bgs	B17HT2	ug/kg																		
C4114	12.5-13.5 bgs	B17HX7	ug/kg																		
C4114	12.5-13.5 bgs	B17HY3	ug/kg																		
C4115	12.5-13.5 bgs	B17HY5	ug/kg																		
C4115	12.5-13.5 bgs	B17HY9	ug/kg																		
C4115	dup of B17HX8	B17J02	ug/kg	1.80	U		3.70	U		1.8	U		18.0	U		37.0	U		18.0	U	
C4115	dup of B17HY6	B17J03	ug/kg																		
C4113	equip blank tied to B17HR5 & B17HR9	B17HR3	ug/L	0.053	U		0.11	U		0.053	U		5	U		10	U		5	U	
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L																		
Target Quantitation Limit			ug/kg																		

Table B6-6. Miscellaneous Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				2-secButyl-4 6-dinitrophenol(DNBP)			4-(2 4-Dichlorophenoxy) butanoic acid			Aldrin			Alpha-BHC			alpha-Chlordane			Aroclor-1016		Aroclor-1221		Aroclor-1232		Aroclor-1242	
Loc	Interval*	HEIS	Units	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg																53.0	U	110	U	53.0	U	53.0	U
C4113	1-2 bgs	B17HR9	ug/kg	18.0	U	UJ	180	U	UJ	1.80	U	UJ	1.80	U	UJ	1.80	U	UJ								
C4114	1-2 bgs	B17HX4	ug/kg	18.0	U		180	U		1.80	U		1.80	U		1.80	U									
C4115	1-2 bgs	B17HX8	ug/kg	19.0	U		190	U	UJ	1.90	U		1.90	U		1.90	U									
C4114	1-2 bgs	B17HY0	ug/kg																52.0	U	100	U	52.0	U	52.0	U
C4115	1-2 bgs	B17HY6	ug/kg																53.0	U	110	U	53.0	U	53.0	U
C4113	2-3 bgs	B17HR6	ug/kg																54.0	U	110	U	54.0	U	54.0	U
C4113	2-3 bgs	B17HT0	ug/kg																							
C4114	2-3 bgs	B17HX5	ug/kg																							
C4115	2-3 bgs	B17HX9	ug/kg	19.0	U		190	U		1.90	U		1.90	U		1.90	U									
C4114	2-3 bgs	B17HY1	ug/kg																50.0	U	100	U	50.0	U	50.0	U
C4115	2-3 bgs	B17HY7	ug/kg																54.0	U	110	U	54.0	U	54.0	U
C4113	6-7 bgs	B17HR7	ug/kg																49.0	U	97	U	49.0	U	49.0	U
C4113	6-7 bgs	B17HT1	ug/kg																							
C4114	6-7 bgs	B17HX6	ug/kg																							
C4114	6-7 bgs	B17HY2	ug/kg																52.0	U	100	U	52.0	U	52.0	U
C4115	6-7 bgs	B17HY4	ug/kg	18.0	U		180	U		1.80	U		1.80	U		1.80	U									
C4115	6-7 bgs	B17HY8	ug/kg																52.0	U	100	U	52.0	U	52.0	U
C4113	12.5-13.5 bgs	B17HR8	ug/kg																51.0	U	100	U	51.0	U	51.0	U
C4113	12.5-13.5 bgs	B17HT2	ug/kg																							
C4114	12.5-13.5 bgs	B17HX7	ug/kg																							
C4114	12.5-13.5 bgs	B17HY3	ug/kg																50.0	U	100	U	50.0	U	50.0	U
C4115	12.5-13.5 bgs	B17HY5	ug/kg																							
C4115	12.5-13.5 bgs	B17HY9	ug/kg																49.0	U	99	U	49.0	U	49.0	U
C4115	dup of B17HX8	B17J02	ug/kg	18.0	U		180	U		1.80	U		1.80	U		1.80	U									
C4115	dup of B17HY6	B17J03	ug/kg																54.0	U	110	U	54.0	U	54.0	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR3	ug/L	5	U		50	U		0.053	U		0.053	U		0.05	U									
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L																0.12	U	0.23	U	0.12	U	0.12	U
Target Quantitation Limit			ug/kg																100		100		100		100	

Table B6-6. Miscellaneous Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Aroclor-1248		Aroclor-1254		Aroclor-1260		Aroclor-1262		Aroclor-1268		beta-1 2 3 4 5 6-Hexachloro cyclohexane			Dalapon			Delta-BHC			Dicamba		
Loc	Interval*	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual
C4113	1-2 bgs	B17HR5	ug/kg	53.0	U	53.0	U	53.0	U	53.0	U	53.0	U												
C4113	1-2 bgs	B17HR9	ug/kg											1.80	U	UJ	180	U	UJ	1.80	U	UJ	72.0	U	UJ
C4114	1-2 bgs	B17HX4	ug/kg											1.80	U		180	U		1.80	U		73.0	U	
C4115	1-2 bgs	B17HX8	ug/kg											1.90	U		190	U	UJ	1.90	U		74.0	U	UJ
C4114	1-2 bgs	B17HY0	ug/kg	52.0	U	52.0	U	52.0	U	52.0	U	52.0	U												
C4115	1-2 bgs	B17HY6	ug/kg	53.0	U	53.0	U	53.0	U	53.0	U	53.0	U												
C4113	2-3 bgs	B17HR6	ug/kg	54.0	U	54.0	U	54.0	U	54.0	U	54.0	U												
C4113	2-3 bgs	B17HT0	ug/kg																						
C4114	2-3 bgs	B17HX5	ug/kg																						
C4115	2-3 bgs	B17HX9	ug/kg											1.90	U		190	U		1.90	U		75.0	U	
C4114	2-3 bgs	B17HY1	ug/kg	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U												
C4115	2-3 bgs	B17HY7	ug/kg	54.0	U	54.0	U	54.0	U	54.0	U	54.0	U												
C4113	6-7 bgs	B17HR7	ug/kg	49.0	U	49.0	U	49.0	U	49.0	U	49.0	U												
C4113	6-7 bgs	B17HT1	ug/kg																						
C4114	6-7 bgs	B17HX6	ug/kg																						
C4114	6-7 bgs	B17HY2	ug/kg	52.0	U	52.0	U	52.0	U	52.0	U	52.0	U												
C4115	6-7 bgs	B17HY4	ug/kg											1.80	U		180	U		1.80	U		70.0	U	
C4115	6-7 bgs	B17HY8	ug/kg	52.0	U	52.0	U	52.0	U	52.0	U	52.0	U												
C4113	12.5-13.5 bgs	B17HR8	ug/kg	51.0	U	51.0	U	51.0	U	51.0	U	51.0	U												
C4113	12.5-13.5 bgs	B17HT2	ug/kg																						
C4114	12.5-13.5 bgs	B17HX7	ug/kg																						
C4114	12.5-13.5 bgs	B17HY3	ug/kg	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U												
C4115	12.5-13.5 bgs	B17HY5	ug/kg																						
C4115	12.5-13.5 bgs	B17HY9	ug/kg	49.0	U	49.0	U	49.0	U	49.0	U	49.0	U												
C4115	dup of B17HX8	B17J02	ug/kg											1.80	U		180	U		1.80	U		73.0	U	
C4115	dup of B17HY6	B17J03	ug/kg	54.0	U	54.0	U	54.0	U	54.0	U	54.0	U												
C4113	equip blank tied to B17HR5 & B17HR9	B17HR3	ug/L											0.053	U		50.0	U		0.053	U		20.0	U	
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U												
Target Quantitation Limit			ug/kg	100		100		100		100		100													

Table B6-6. Miscellaneous Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Dichlorodiphenyl dichloroethane			Dichlorodiphenyl dichloroethylene			Dichlorodiphenyl trichloroethane			Dichloroprop			Dieldrin			Diethyl ether		Endosulfan II		
Loc	Interval[a]	HEIS	Units	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Result	Q	Val Qual
C4113	1-2 bgs	B17HR5	ug/kg																5000	U			
C4113	1-2 bgs	B17HR9	ug/kg	3.60	U	UJ	3.60	U	UJ	3.60	U	UJ	180	U	UJ	3.60	U	UJ			3.60	U	UJ
C4114	1-2 bgs	B17HX4	ug/kg	3.60	U		3.60	U		3.60	U		180	U		3.60	U				3.60	U	
C4115	1-2 bgs	B17HX8	ug/kg	3.70	U		3.70	U		3.70	U		190	U		3.70	U				3.70	U	
C4114	1-2 bgs	B17HY0	ug/kg																5000	U			
C4115	1-2 bgs	B17HY6	ug/kg																5000	U			
C4113	2-3 bgs	B17HR6	ug/kg																5000	U			
C4113	2-3 bgs	B17HT0	ug/kg																				
C4114	2-3 bgs	B17HX5	ug/kg																				
C4115	2-3 bgs	B17HX9	ug/kg	3.70	U		3.70	U		3.70	U		190	U		3.70	U				3.70	U	
C4114	2-3 bgs	B17HY1	ug/kg																5000	U			
C4115	2-3 bgs	B17HY7	ug/kg																5000	U			
C4113	6-7 bgs	B17HR7	ug/kg																5000	U			
C4113	6-7 bgs	B17HT1	ug/kg																				
C4114	6-7 bgs	B17HX6	ug/kg																				
C4114	6-7 bgs	B17HY2	ug/kg																5000	U			
C4115	6-7 bgs	B17HY4	ug/kg	3.50	U		3.50	U		3.50	U		180	U		3.50	U				3.50	U	
C4115	6-7 bgs	B17HY8	ug/kg																5000	U			
C4113	12.5-13.5 bgs	B17HR8	ug/kg																5000	U			
C4113	12.5-13.5 bgs	B17HT2	ug/kg																				
C4114	12.5-13.5 bgs	B17HX7	ug/kg																				
C4114	12.5-13.5 bgs	B17HY3	ug/kg																5000	U			
C4115	12.5-13.5 bgs	B17HY5	ug/kg																				
C4115	12.5-13.5 bgs	B17HY9	ug/kg																5000	U			
C4115	dup of B17HX8	B17J02	ug/kg	3.70	U		3.70	U		3.70	U		180	U		3.70	U				3.70	U	
C4115	dup of B17HY6	B17J03	ug/kg																5000	U			
C4113	equip blank tied to B17HR5 & B17HR9	B17HR3	ug/L	0.11	U		0.11	U		0.11	U		50.0	U		0.11	U				0.11	U	
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L																5000	U			
Target Quantitation Limit			ug/kg																				

Table B6-6. Miscellaneous Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Endosulfan sulfate			Endrin aldehyde			Endrin ketone			Ethylene glycol		Gamma-BHC (Lindane)			gamma-Chlordane		Heptachlor epoxide			Methanol	
Loc	Interval*	HEIS	Units	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Val Qual	Result	Q	Result	Q	Val Qual	Result	Q	Result	Q	Val Qual	Result	Q
C4113	1-2 bgs	B17HR5	ug/kg										5000	U									1000	U
C4113	1-2 bgs	B17HR9	ug/kg	3.60	U	UJ	3.60	U	UJ	3.60	U	UJ			1.80	U	UJ	1.80	U	1.80	U	UJ		
C4114	1-2 bgs	B17HX4	ug/kg	3.60	U		3.60	U		3.60	U				1.80	U		1.80	U	1.80	U			
C4115	1-2 bgs	B17HX8	ug/kg	3.70	U		3.70	U		3.70	U				1.90	U		1.90	U	1.90	U			
C4114	1-2 bgs	B17HY0	ug/kg										5000	U									1000	U
C4115	1-2 bgs	B17HY6	ug/kg										5000	U									1000	U
C4113	2-3 bgs	B17HR6	ug/kg										5000	U									1000	U
C4113	2-3 bgs	B17HT0	ug/kg																					
C4114	2-3 bgs	B17HX5	ug/kg																					
C4115	2-3 bgs	B17HX9	ug/kg	3.70	U		3.70	U		3.70	U				1.90	U		1.90	U	1.90	U			
C4114	2-3 bgs	B17HY1	ug/kg										5000	U									1000	U
C4115	2-3 bgs	B17HY7	ug/kg										5000	U									1000	U
C4113	6-7 bgs	B17HR7	ug/kg										5000	U									1000	U
C4113	6-7 bgs	B17HT1	ug/kg																					
C4114	6-7 bgs	B17HX6	ug/kg																					
C4114	6-7 bgs	B17HY2	ug/kg										5000	U									1000	U
C4115	6-7 bgs	B17HY4	ug/kg	3.50	U		3.50	U		3.50	U				1.80	U		1.80	U	1.80	U			
C4115	6-7 bgs	B17HY8	ug/kg										5000	U									1000	U
C4113	12.5-13.5 bgs	B17HR8	ug/kg										5000	U									1000	U
C4113	12.5-13.5 bgs	B17HT2	ug/kg																					
C4114	12.5-13.5 bgs	B17HX7	ug/kg																					
C4114	12.5-13.5 bgs	B17HY3	ug/kg										5000	U									1000	U
C4115	12.5-13.5 bgs	B17HY5	ug/kg																					
C4115	12.5-13.5 bgs	B17HY9	ug/kg										5000	U									1000	U
C4115	dup of B17HX8	B17J02	ug/kg	3.70	U		3.70	U		3.70	U				1.80	U		1.80	U	1.80	U			
C4115	dup of B17HY6	B17J03	ug/kg										5000	U									1000	U
C4113	equip blank tied to B17HR5 & B17HR9	B17HR3	ug/L	0.11	U		0.11	U		0.11	U				0.053	U		0.053	U	0.053	U			
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L										5000	U									1000	U
Target Quantitation Limit			ug/kg										5000											

Table B6-6. Miscellaneous Organic Analysis Results for 207-A South Retention Basin (C4113, C4114, C4115) Samples.

				Methoxychlor			Oil and grease		TPH - diesel range		TPH - gasoline range		TPH - kerosene range		Toxaphene		
Loc	Interval*	HEIS	Units	Result	Q	Val Qual	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Val Qual
C4113	1-2 bgs	B17HR5	ug/kg						4100	U	250	U	4100	U			
C4113	1-2 bgs	B17HR9	ug/kg	18.0	U	UJ	722000	U							180	U	UJ
C4114	1-2 bgs	B17HX4	ug/kg	18.0	U		725000	U							180	U	
C4115	1-2 bgs	B17HX8	ug/kg	19.0	U		743000	U							190	U	
C4114	1-2 bgs	B17HY0	ug/kg						4000	U	250	U	4000	U			
C4115	1-2 bgs	B17HY6	ug/kg						4100	U	250	U	4100	U			
C4113	2-3 bgs	B17HR6	ug/kg						4100	U	250	U	4100	U			
C4113	2-3 bgs	B17HT0	ug/kg				727000	U									
C4114	2-3 bgs	B17HX5	ug/kg				723000	U									
C4115	2-3 bgs	B17HX9	ug/kg	19.0	U		748000	U							190	U	
C4114	2-3 bgs	B17HY1	ug/kg						4100	U	250	U	4100	U			
C4115	2-3 bgs	B17HY7	ug/kg						4200	U	250	U	4200	U			
C4113	6-7 bgs	B17HR7	ug/kg						3900	U	250	U	3900	U			
C4113	6-7 bgs	B17HT1	ug/kg				694000	U									
C4114	6-7 bgs	B17HX6	ug/kg				695000	U									
C4114	6-7 bgs	B17HY2	ug/kg						3900	U	250	U	3900	U			
C4115	6-7 bgs	B17HY4	ug/kg	18.0	U		704000	U							180	U	
C4115	6-7 bgs	B17HY8	ug/kg						4000	U	250	U	4000	U			
C4113	12.5-13.5 bgs	B17HR8	ug/kg						3900	U	250	U	3900	U			
C4113	12.5-13.5 bgs	B17HT2	ug/kg				686000	U									
C4114	12.5-13.5 bgs	B17HX7	ug/kg				682000	U									
C4114	12.5-13.5 bgs	B17HY3	ug/kg						3900	U	250	U	3900	U			
C4115	12.5-13.5 bgs	B17HY5	ug/kg				680000	U									
C4115	12.5-13.5 bgs	B17HY9	ug/kg						3800	U	250	U	3800	U			
C4115	dup of B17HX8	B17J02	ug/kg	18.0	U		733000	U							180	U	
C4115	dup of B17HY6	B17J03	ug/kg						4100	U	250	U	4100	U			
C4113	equip blank tied to B17HR5 & B17HR9	B17HR3	ug/L	0.53	U		1100	U							5.3	U	
C4113	equip blank tied to B17HR5 & B17HR9	B17HR4	ug/L						91.0	U	50.0	U	91.0	U			
Target Quantitation Limit			ug/kg				200000		5000		5000		5000				

* The intervals are referenced to the floor of the basin, which is approximately 7 feet below the surrounding ground surface.

bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
J = Estimated
Q = Qualifier
U = Undetected
UJ = Undetected, detection limit is estimated
Val Qual = Validation qualifier

Table B7-1. Radiochemical Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

				Actinium-228			Americium-241			Antimony-125			Bismuth-212			Bismuth-214			Carbon-14			Cerium-144			Cesium-134			Cesium-137			Cobalt-60		
Loc	Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
C4113	concrete	B17C43	pCi/g	0.448		0.07	0.01	U	0.045	-0.02	U	0.05	0.276		0.16	0.303		0.038				-0.11	U	0.12	0.024	U	0.024	0.011	U	0.0	0.002	U	0.022
C4113	concrete	B17C36	pCi/g																0.984	U	2.60												
C4114	concrete	B17C41	pCi/g	0.384		0.07	0.03	U	0.036	0.03	U	0.05	0.20		0.17	0.312		0.043				0.02	U	0.10	0.012	U	0.025	0.047		0.0	0.016	U	0.027
C4114	concrete	B17C34	pCi/g																0.222	U	2.90												
C4115	concrete	B17C42	pCi/g	0.421		0.06	0.03	U	0.048	-0.012	U	0.0	0.35		0.14	0.338		0.037				0.0	U	0.09	0.029	U	0.022	0.015	U	0.018	-0.01	U	0.021
C4115	concrete	B17C35	pCi/g																0.554	U	2.70												
Target Quantitation Limit			pCi/g				1.00												50.0									0.10			0.05		

Table B7-1. Radiochemical Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

			Europium-152			Europium-154			Europium-155			Iodine-129			Lead-212			Lead-214			Neptunium-237			Nickel-63			Niobium-94			Plutonium-238		
Loc	Interval	HEIS	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
C4113	concrete	B17C43	0.005	U	0.1	0.015	U	0.066	0.0	U	0.06				0.42		0.0	0.363		0.04							-0.01	U	0.02	0.02	U	0.03
C4113	concrete	B17C36										-0.044	U	2.40							0.00	U	0.12	-0.39	U	2.20						
C4114	concrete	B17C41	-0.02	U	0.048	-0.034	U	0.069	0.028	U	0.06				0.38		0.03	0.382		0.04							-0.01	U	0.02	0.01	U	0.06
C4114	concrete	B17C34										0.229	U	2.50							0.00	U	0.14	-0.57	U	2.20						
C4115	concrete	B17C42	-0.01	U	0.041	-0.049	U	0.066	0.009	U	0.047				0.37		0.0	0.37		0.03							0.01	U	0.02	0.00	U	0.03
C4115	concrete	B17C35										-0.419	U	2.2							0.055	U	0.16	-0.608	U	2.3						
Target Quantitation Limit			0.10			0.10			0.10			2.00									1.00			30.0						1.00		

Table B7-1. Radiochemical Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

			Plutonium-239/240			Radium-226			Radium-228			Ruthenium-103			Ruthenium-106			Technetium-99			Thallium-208			Thorium-228			Thorium-230			Thorium-232			Thorium-234		
Loc	Interval	HEIS	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
C4113	concrete	B17C43	0.00	U	0.02	0.30		0.04	0.45		0.07	-0.002	U	0.017	0.03	U	0.17				0.1		0.02										0.73	U	1.20
C4113	concrete	B17C36																-0.073	U	0.91				0.361		0.25	0.36		0.25	0.26		0.25			
C4114	concrete	B17C41	0.01	U	0.02	0.31		0.04	0.38		0.07	0.003	U	0.018	0.03	U	0.18				0.117		0.02										0.58	U	1.00
C4114	concrete	B17C34																0.022	U	0.89				0.457		0.27	0.56		0.27	0.25	U	0.27			
C4115	concrete	B17C42	0.00	U	0.01	0.338		0.037	0.421		0.064	0.00	U	0.02	-0.06	U	0.16				0.13		0.02										0.95		0.73
C4115	concrete	B17C35																0.70	U	0.82				0.59		0.28	0.44		0.28	0.66		0.28			
Target Quantitation Limit			1.00			0.10			0.20									15												1.00					

Table B7-1. Radiochemical Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

			Tin-113			Tin-126			Total beta radiostrontium			Tritium			Uranium-233/234			Uranium-235			Uranium-238			Uranium				Zinc-65		
Loc	Interval	HEIS	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Units	Q	MDA	Result	Q	MDA
C4113	concrete	B17C43	0.006	U	0.022	0.036	U	0.054							0.17		0.006	0.013	U	0.021	0.24		0.006	7700	ug/kg			0.03	U	0.05
C4113	concrete	B17C36							0.801		0.12	3.94		2.40																
C4114	concrete	B17C41	0.004	U	0.022	0.087	U	0.087							0.19		0.017	0.016		0.015	0.22		0.014	989	ug/kg	U		0.008	U	0.05
C4114	concrete	B17C34							-0.036	U	0.19	7.02		2.80																
C4115	concrete	B17C42	0	U	0.018	0.11	U	0.11							0.20		0.018	0.021		0.006	0.20		0.014	992	ug/kg	U		-0.01	U	0.04
C4115	concrete	B17C35							-0.079	U	0.2	5.68		2.50																
Target Quantitation Limit									1.00			400			1.00			1.00			1.00			1000						

a. Uranium reported in ug/kg.

bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
MDA = Minimum detectable activity
Q = Qualifier
U = Undetected

Table B7-2. Metal Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

				Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Cadmium		Chromium		Copper		Hexavalent Chromium	
Loc	Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	concrete	B17C43	ug/kg	4900	U	7500		160000		4720		5070	U	16300		4030		21400		31400			
C4113	concrete	B17C50	ug/kg																			393	
C4114	concrete	B17C41	ug/kg	4940	U	3730		118000		2970	U	5080	U	12200		989	U	16400		23300			
C4114	concrete	B17C48	ug/kg																			350	U
C4115	concrete	B17C42	ug/kg	4960	U	2980	U	124000		2980	U	5090	U	12000		992	U	15400		22400			
C4115	concrete	B17C49	ug/kg																			457	
Target Quantitation Limit			ug/kg	6000		10000		20000		500						500		1000		2500		500	

Table B7-2. Metal Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

				Lead		Mercury		Nickel		Selenium		Silver	
Loc	Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	concrete	B17C43	ug/kg	11800	U	981	U	16200		6280		6130	
C4113	concrete	B17C50	ug/kg										
C4114	concrete	B17C41	ug/kg	11900	U	989	U	10000		2970	U	3370	
C4114	concrete	B17C48	ug/kg										
C4115	concrete	B17C42	ug/kg	11900	U	992	U	9550		2980	U	5030	
C4115	concrete	B17C49	ug/kg										
Target Quantitation Limit			ug/kg	10000		200		4000		10000		2000	

bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
Q = Qualifier
U = Undetected

Table B7-3. General Inorganic Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

				Ammonia as N		Chloride		Cyanide		Fluoride		Nitrate as N		Nitrite as N		Nitrogen in Nitrite and Nitrate		pH Measurement			Phosphate		Sulfate	
Loc	Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Units	Q	Result	Q	Result	Q
C4113	concrete	B17C43	ug/kg	76.0	U	2570		200	U	679	U	485	U	873	U			12.4	pH		1260	U	37900	
C4113	concrete	B17C36	ug/kg													170	U							
C4114	concrete	B17C41	ug/kg	80.0	U	1390	U	200	U	693	U	495	U	891	U			12.4	pH		1290	U	43500	
C4114	concrete	B17C34	ug/kg													170	U							
C4115	concrete	B17C42	ug/kg	80.0	U	1370	U	200	U	686	U	490	U	882	U			12.4	pH		1270	U	41300	
C4115	concrete	B17C35	ug/kg													320								
Target Quantitation Limit			ug/kg	500		2000		500		5000		2500		2500							5000		5000	

bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
Q = Qualifier
U = Undetected

Table B7-4. Volatile Organic Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

				(1-methyl-1-propenyl)-(E)-benzene		1 1 1-Trichloro ethane		1 1 2 2-Tetrachloro ethane		1 1 2-Trichloro ethane		1 1-Dichloro ethane		1 1-Dichloro ethene		1 2 3 5-tetramethyl benzene		1 2 4 5-tetramethyl benzene		1 2-Dichloro ethane		1 2-Dichloro ethene(Total)		1 2-Dichloro propane	
Loc	Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	concrete	B17C43	ug/kg			2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	170	J	100	J	2.10	U	2.10	U	2.10	U
C4114	concrete	B17C41	ug/kg			2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	390	J	290	J	2.10	U	2.10	U	2.10	U
C4115	concrete	B17C42	ug/kg	300	J	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	770	J			2.10	U	2.10	U	2.10	U
C4113	trip blank accompanying B17C41, B17C42, B17C43	B174B6	ug/L			1.00	U	1.00	U	1.00	U	1.00	U	1.00	U					1.00	U	1.00	U	1.00	U
Target Quantitation Limit			ug/kg			5.00						10.0								5.00		10.0			

Table B7-4. Volatile Organic Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

				1 3-dimethyl-5-(1-methylethyl)- benzene		1 3-dimethyl-5-isopropyl benzene		1-Butanol		1-ethyl-2 3-dimethylbenzene		1-ethyl-2 4-dimethylbenzene		1-ethyl-3 5-dimethylbenzene		2-Butanone		2-ethyl-1 3-dimethylbenzene		2-Hexanone		2-Pentanone		4-Methyl-2-Pentanone	
Loc	Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	concrete	B17C43	ug/kg					42.0	U			170	J	59.0	J	2.10	U	74.0	J	2.10	U	2.10	U	2.10	U
C4114	concrete	B17C41	ug/kg	160	J	170	J	42.0	U			190	J			2.10	U			2.10	U	2.10	U	2.10	U
C4115	concrete	B17C42	ug/kg					41.0	U	390	J	400	J			2.10	U			2.10	U	2.10	U	2.10	U
C4113	trip blank accompanying B17C41, B17C42, B17C43	B174B6	ug/L													1.00	U			1.00	U	1.00	U	1.00	U
Target Quantitation Limit			ug/kg					5000								10.0								10.0	

Table B7-4. Volatile Organic Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

				Acetone		Benzene		Bromodichloro methane		Bromo form		Bromo methane		Carbon disulfide		Carbon tetra chloride		Chloro benzene		Chloro ethane		Chloro form		Chloro methane		cis-1 3-Dichloro propene		Dibromochloro methane		Ethyl benzene		Methylene chloride	
Loc	Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	concrete	B17C43	ug/kg	52.0	B	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	7.00	J	2.10	U
C4114	concrete	B17C41	ug/kg	45.0	B	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	17.0	J	2.10	U
C4115	concrete	B17C42	ug/kg	120	B	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	39.0		2.10	U
C4113	trip blank accompanying B17C41, B17C42, B17C43	B174B6	ug/L	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U
Target Quantitation Limit			ug/kg	20.0		5.00										5.00		5.00				5.00								5.00		5.00	

Table B7-4. Volatile Organic Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

				Naph thalene		n-Butyl benzene		Pentamethyl benzene		Styrene		tert-Amyl benzene		Tetrachloro ethene		Toluene		trans-1 3-Dichloro propene		Trichloro ethene		Vinyl chloride		Xylenes (total)	
Loc	Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	concrete	B17C43	ug/kg	130	J	3.00	J	63.0	J	2.10	U			2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	50.0	
C4114	concrete	B17C41	ug/kg	150	J	8.00	J			2.10	U	140	J	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	140	
C4115	concrete	B17C42	ug/kg	350	J	17.0	J			2.10	U			2.10	U	2.10	U	2.10	U	2.10	U	2.10	U	68.0	
C4113	trip blank accompanying B17C41, B17C42, B17C43	B174B6	ug/L			1.00	U			1.00	U			1.00	U	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U
Target Quantitation Limit			ug/kg			5.00								5.00		5.00				5.00				5.00	

bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
J = Estimated
Q = Qualifier
U = Undetected

Table B7-5. Semi-Volatile Organic Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

				1 2 4-Trichloro benzene		1 2-Dichloro benzene		1 3-Dichloro benzene		1 4-Dichloro benzene		1-methylnaph thalene		2 4 5-Trichloro phenol		2 4 6-Trichloro phenol		2 4-Dichloro phenol		2 4-Dimethyl phenol		2 4-Dinitro phenol		2 4-Dinitro toluene		2 6-Dinitro toluene		2-Butoxy ethanol		2-Chloronaph thalene		2-Chloro phenol		2-Methylnaph thalene		2-Methylphenol (cresol o-)	
Loc	Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	concrete	B17C43	ug/kg	300	U	370	U	330	U	320	U			75.0	U	68.0	U	82.0	U	68.0	U	680	U	68.0	U	68.0	U	100	U	68.0	U	150	U	450	J	68.0	U
C4114	concrete	B17C41	ug/kg	300	U	370	U	330	U	320	U			75.0	U	69.0	U	82.0	U	69.0	U	690	U	69.0	U	69.0	U	100	U	69.0	U	150	U	190	U	69.0	U
C4115	concrete	B17C42	ug/kg	300	U	370	U	330	U	320	U	1300	J	75.0	U	68.0	U	82.0	U	68.0	U	680	U	68.0	U	68.0	U	100	U	68.0	U	150	U	1000		68.0	U

Table B7-5. Semi-Volatile Organic Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

				2-Nitro aniline		2-Nitro phenol		2-Pentene 4 4-dimethyl-		3 3'-Dichloro benzidine		3 5-Dimethyl-2-cyclohexen-1-one		3+4 Methylphenol (cresol m+p)		3-methyl 2-cyclohexen-1-one		3-Nitro aniline		4 6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chloro aniline		4-Chlorophenyl phenyl ether		4-Methylphenol (cresol p-)	
Loc	Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	concrete	B17C43	ug/kg	68.0	U	180	U			82.0	U			2800		6800	J	68.0	U	680	U	68.0	U	68.0	U	96.00	U	68.0	U		
C4114	concrete	B17C41	ug/kg	69.0	U	180	U	640000	J	82.0	U	1200	J	2000		4800	J	69.0	U	690	U	69.0	U	69.0	U	96.00	U	69.0	U	3000	J
C4115	concrete	B17C42	ug/kg	68.0	U	180	U			82.0	U	6000	J	120	U	14000	J	68.0	U	680	U	68.0	U	68.0	U	95.00	U	68.0	U		

Table B7-5. Semi-Volatile Organic Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

				4-Nitro aniline		4-Nitro phenol		Acenaph thene		Acenaph thylene		Anthra cene		Benzo(a) anthracene		Benzo(a) pyrene		Benzo(b) fluoranthene		Benzo(ghi) perylene		Benzo(k) fluoranthene		Benzyl alcohol		Bis(2-chloro-1-methylethyl)ether		Bis(2-Chloroethoxy) methane		Bis(2-chloroethyl) ether		Bis(2-ethylhexyl) phthalate		Butylbenzyl phthalate		Carbazole	
Loc	Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	concrete	B17C43	ug/kg	250	U	660	U	68.0	U	82.0	U	68.0	U	68.0	U	68.0	U	68.0	U	68.0	U	68.0	U	75.0	U	260	U	120	U	250	U	570	U	68.0	U	82.0	U
C4114	concrete	B17C41	ug/kg	250	U	670	U	69.0	U	82.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U	69.0	U	75.0	U	260	U	120	U	250	U	580	U	69.0	U	82.0	U
C4115	concrete	B17C42	ug/kg	250	U	660	U	68.0	U	82.0	U	68.0	U	68.0	U	68.0	U	68.0	U	68.0	U	68.0	U	75.0	U	260	U	120	U	250	U	570	U	68.0	U	82.0	U

Table B7-5. Semi-Volatile Organic Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

				Chrysene		Dibenz[a h]anthracene		Dibenzo furan		Diethyl phthalate		Dimethyl phthalate		Di-n-butyl phthalate		Di-n-octyl phthalate		Fluor anthene		Fluorene		Hexachloro benzene		Hexachloro butadiene		Hexachlorocyclo pentadiene		Hexachloro ethane		Indeno(1 2 3-cd)pyrene	
Loc	Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	concrete	B17C43	ug/kg	68.0	U	68.0	U	68.0	U	380	J	68.0	U	89.0	U	68.0	U	68.0	U	68.0	U	68.0	U	380	U	320	U	480	U	68.0	U
C4114	concrete	B17C41	ug/kg	69.0	U	69.0	U	69.0	U	650		69.0	U	89.0	U	69.0	U	69.0	U	69.0	U	69.0	U	380	U	320	U	480	U	69.0	U
C4115	concrete	B17C42	ug/kg	68.0	U	68.0	U	68.0	U	190	U	68.0	U	89.0	U	68.0	U	68.0	U	68.0	U	68.0	U	370	U	320	U	480	U	68.0	U

Table B7-5. Semi-Volatile Organic Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

				Iso phorone		Mesityl oxide		Naph thalene		Nitro benzene		N-Nitrosodi-n-dipropylamine		N-Nitro sodiphenylamine		n-Octa decane		Pentachloro phenol		Phen anthrene	
Loc	Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	concrete	B17C43	ug/kg	2600		760000	J	970		270	U	68.0	U	68.0	U	5600	J	310	U	68.0	U
C4114	concrete	B17C41	ug/kg	2700				300		270	U	69.0	U	69.0	U			310	U	69.0	U
C4115	concrete	B17C42	ug/kg	11800	D	2500000	J	4200		270	U	68.0	U	68.0	U			310	U	68.0	U
Target Quantitation Limit			ug/kg																		

Table B7-5. Semi-Volatile Organic Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

				Phenol		Phorone		Propane 2-methyl-2-(1-methylethoxy)		Pyrene		Tributyl phosphate	
Loc	Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	concrete	B17C43	ug/kg	100	U	3200	J			68.0	U	68.0	U
C4114	concrete	B17C41	ug/kg	100	U			1300000	J	69.0	U	370	
C4115	concrete	B17C42	ug/kg	100	U					68.0	U	68.0	U
Target Quantitation Limit			ug/kg	330								330	

bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
J = Estimated
Q = Qualifier
U = Undetected

Table B7-6. Miscellaneous Organic Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

				Endo sulfan I		Endrin		Hepta chlor		2 4 5-Trichlorophenoxy acetic acid		2 4-Dichlorophenoxy acetic acid		2-(2 4 5-Trichloro phenoxy) propionic acid		2-secButyl-4 6-dinitrophenol (DNBP)		4-(2 4-Dichloro phenoxy) butanoic acid		Aldrin		Alpha-BHC		alpha-Chlordane	
Loc	Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	concrete	B17C43	ug/kg																						
C4113	concrete	B17C36	ug/kg	1.70	U	3.30	U	1.70	U	17.0	U	33.0	U	17.0	U	17.0	U	170	U	1.70	U	1.70	U	1.70	U
C4114	concrete	B17C41	ug/kg																						
C4114	concrete	B17C34	ug/kg	1.70	U	3.30	U	1.70	U	17.0	U	33.0	U	17.0	U	17.0	U	170	U	1.70	U	1.70	U	1.70	U
C4115	concrete	B17C42	ug/kg																						
C4115	concrete	B17C35	ug/kg	1.70	U	3.30	U	1.70	U	17.0	U	33.0	U	17.0	U	17.0	U	170	U	1.70	U	1.70	U	1.70	U
Target Quantitation Limit			ug/kg																						

Table B7-6. Miscellaneous Organic Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

				Aroclor-1016		Aroclor-1221		Aroclor-1232		Aroclor-1242		Aroclor-1248		Aroclor-1254		Aroclor-1260		Aroclor-1262		Aroclor-1268		beta-1 2 3 4 5 6-Hexachloro cyclohexane		Dalapon		Delta-BHC		Dicamba		Dichlorodiphenyl dichloroethane	
Loc	Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	concrete	B17C43	ug/kg	50.0	U	99.0	U	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U										
C4113	concrete	B17C36	ug/kg																			1.70	U	170	U	1.70	U	67.0	U	3.30	U
C4114	concrete	B17C41	ug/kg	50.0	U	100	U	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U										
C4114	concrete	B17C34	ug/kg																			1.70	U	170	U	1.70	U	67.0	U	3.30	U
C4115	concrete	B17C42	ug/kg	47.0	U	94.0	U	47.0	U	47.0	U	47.0	U	47.0	U	47.0	U	47.0	U	47.0	U										
C4115	concrete	B17C35	ug/kg																			1.70	U	170	U	1.70	U	67.0	U	3.30	U
Target Quantitation Limit			ug/kg	100		100		100		100		100		100		100		100		100											

Table B7-6. Miscellaneous Organic Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

				Dichlorodiphenyl dichloroethylene		Dichlorodiphenyl trichloroethane		Dichloro prop		Dieldrin		Diethyl ether		Endo sulfan II		Endo sulfan sulfate		Endrin aldehyde		Endrin ketone		Ethylene glycol		Gamma-BHC (Lindane)		gamma-Chlordane		Heptachlor epoxide	
Loc	Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	concrete	B17C43	ug/kg									5000	U									5000	U						
C4113	concrete	B17C36	ug/kg	3.30	U	3.30	U	170	U	3.30	U			3.30	U	3.30	U	3.30	U	3.30	U			1.70	U	1.70	U	1.70	U
C4114	concrete	B17C41	ug/kg									5000	U									5000	U						
C4114	concrete	B17C34	ug/kg	3.30	U	3.30	U	170	U	3.30	U			3.30	U	3.30	U	3.30	U	3.30	U			1.70	U	1.70	U	1.70	U
C4115	concrete	B17C42	ug/kg									5000	U									5000	U						
C4115	concrete	B17C35	ug/kg	3.30	U	3.30	U	170	U	3.3	U			3.30	U	3.30	U	3.30	U	3.30	U			1.70	U	1.70	U	1.70	U
Target Quantitation Limit			ug/kg																			5000							

Table B7-6. Miscellaneous Organic Analysis Results 207-A South Retention Basin (C4113, C4114, C4115) Concrete Samples

				Methanol		Methoxy chlor		Oil and grease		TPH - diesel range		TPH - gasoline range		TPH - kerosene range		TPH - motor oil (high boiling)		Toxa phene	
Loc	Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
C4113	concrete	B17C43	ug/kg	1000	U					42000		1520		5100	U	1000000			
C4113	concrete	B17C36	ug/kg			17.0	U	685000	U									170	U
C4114	concrete	B17C41	ug/kg	1000	U					28000		4300		5200	U	450000			
C4114	concrete	B17C34	ug/kg			17.0	U	690000	U									170	U
C4115	concrete	B17C42	ug/kg	1000	U					66000		4640		5100	U	67000			
C4115	concrete	B17C35	ug/kg			17.0	U	690000	U									170	U
Target Quantitation Limit			ug/kg					200000		5000		5000		5000					

bgs = Below ground surface
dup = Duplicate
HEIS = Hanford Environmental Information System
Q = Qualifier
U = Undetected

Table B8-1. Radiochemical Analysis Results for 207-A East, Middle, and West Retention Basin Samples

			Americium-241			Cesium-137			Cobalt-60			Europium-152			Europium-154			Europium-155		
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
soil in basin	B17107	pCi/g		U	0.068	0.613		0.024		U	0.018		U	0.048		U	0.059		U	0.049
water in basin	B17109	pCi/L																		
Target Quantitation Lim		pCi/g	1.00			0.10			0.05			0.10			0.10			0.10		

Table B8-1. Radiochemical Analysis Results for 207-A East, Middle, and West Retention Basin Samples

			Gross alpha			Gross beta			Potassium-40			Radium-226			Radium-228			Thorium-228		
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
soil in basin	B17107	pCi/g							9.97		0.23	0.402		0.04	0.624		0.081	0.553		0.022
water in basin	B17109	pCi/L	2.00		1.00	15.0		2.00												
Target Quantitation Lim		pCi/g										0.10			0.20					

Table B8-1. Radiochemical Analysis Results for 207-A East, Middle, and West Retention Basin Samples

			Thorium-232			Uranium-235			Uranium-238		
Interval	HEIS	Units	Result	Q	MDA	Result	Q	MDA	Result	Q	MDA
soil in basin	B17107	pCi/g	0.624		0.081		U	0.077		U	2.00
water in basin	B17109	pCi/L									
Target Quantitation Lim		pCi/g	1.00			1.00			1.00		

HEIS = Hanford Environmental Information System
MDA = Minimum detectable activity
Q = Qualifier
U = Undetected

Table B8-2. Metal Analysis Results for 207-A East, Middle, and West Retention Basin Samples

			Antimony		Arsenic		Barium		Beryllium		Bismuth		Boron		Copper		Lead		Mercury		Nickel	
Interval	HEIS	Units	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q	Result	Q
soil in basin	B17107	ug/kg	250	U	3400		65600		280		590	U	2400		11400		5000		20.0	U	8900	
water in basin	B17109	ug/L	2.20	U	6.50		58.3	C	0.10		5.10	U	102		6.20		2.30	U	0.10	U	2.40	
Target Quantitation Limi		ug/kg	6000		10000		20000		500						2500		10000		200		4000	

Table B8-2. Metal Analysis Results for 207-A East, Middle, and West Retention Basin Samples

			Selenium		Silver	
Interval	HEIS	Units	Result	Q	Result	Q
soil in basin	B17107	ug/kg	480	U	140	U
water in basin	B17109	ug/L	4.20	U	1.20	U
Target Quantitation Limi		ug/kg	10000		2000	

HEIS = Hanford Environmental Information System
Q = Qualifier
U = Undetected

Table B8-3. General Inorganic and Total Organic Carbon Analysis Results for 207-A East, Middle, and West Retention Basin Samples

		pH Measurement		
Interval	HEIS	Result	Units	Q
water in basin	B17109	7.70	pH	

	Total organic carbon			
Interval	HEIS	Result	Units	Q
water in basin	B17109	18900	ug/L	D

D = Sample reanalyzed at higher dilution factor
HEIS = Hanford Environmental Information System
Q = Qualifier

Table B8-4. Miscellaneous Organic Analysis Results for 207-A East, Middle, and West Retention Basin Samples

		Total organic carbon		
Interval	HEIS	Result	Units	Q
soil in basin	B17107			
water in basin	B17109	18900	ug/L	D

D = Sample reanalyzed at higher dilution factor
HEIS = Hanford Environmental Information System
Q = Qualifier