0098362

SAF-RC-217
100F Remaining Sites Remediation – Soil Full Protocol
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 7/26/11
INITIAL/DATE

COMMENTS:

SDG J01158 SAF-RC-217

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location: 100-F-48 VERIFICATION (CSA)

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-17794-1

SDG Number: J01158

Job Description: SAF# RC-217

For:
Washington Closure Hanford
2620 Fermi Avenue
Richland, WA 99354

Attention: Joan H Kessner

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JUL 2011

Approved for release.
Kae E Yoder
Project Manager II
7/25/2011 10:36 AM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
07/25/2011

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

TestAmerica Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac

Table of Contents

Cover Title Page 1

Report Narrative 3

Data Qualifiers 6

Method Summary 8

Method / Analyst Summary 9

Sample Summary 10

Sample Results 11

Sample Datasheets 12

QC Results 142

Qc Association Summary 143

Qc Reports 152

Client Chain of Custody 176

Sample Receipt Checklist 179

CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-17794-1

SDG #: J01158
SAF#: RC-217

Date SDG Closed: July 8, 2011
Data Deliverable: 15 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1K406	280-17794-1	6010/7471/WTPH-D+/8260/8270A/ 8082/8081	6010B/7471A/NWTPH-Dx/8260B/8270C/ 8082/8081A
J1K407	280-17794-2	6010/7471/WTPH-D+/8260/8270A/ 8082/8081	6010B/7471A/NWTPH-Dx/8260B/8270C/ 8082/8081A
J1K408	280-17794-3	6010/7471/WTPH-D+/8260/8270A/ 8082/8081	6010B/7471A/NWTPH-Dx/8260B/8270C/ 8082/8081A
J1K409	280-17794-4	6010/7471/WTPH-D+/8260/8270A/ 8082/8081	6010B/7471A/NWTPH-Dx/8260B/8270C/ 8082/8081A
J1K410	280-17794-5	6010/7471/WTPH-D+/8260/8270A/ 8082/8081	6010B/7471A/NWTPH-Dx/8260B/8270C/ 8082/8081A
J1K411	280-17794-6	6010/7471/WTPH-D+/8260/8270A/ 8082/8081	6010B/7471A/NWTPH-Dx/8260B/8270C/ 8082/8081A
J1K412	280-17794-7	6010/7471/WTPH-D+/8260/8270A/ 8082/8081	6010B/7471A/NWTPH-Dx/8260B/8270C/ 8082/8081A
J1K413	280-17794-8	6010/7471/WTPH-D+/8260/8270A/ 8082/8081	6010B/7471A/NWTPH-Dx/8260B/8270C/ 8082/8081A
J1K414	280-17794-9	6010/7471/WTPH-D+/8260/8270A/ 8082/8081	6010B/7471A/NWTPH-Dx/8260B/8270C/ 8082/8081A
J1K415	280-17794-10	6010/7471/WTPH-D+/8260/8270A/ 8082/8081	6010B/7471A/NWTPH-Dx/8260B/8270C/ 8082/8081A
J1K416	280-17794-11	6010/7471/WTPH-D+/8260/8270A/ 8082/8081	6010B/7471A/NWTPH-Dx/8260B/8270C/ 8082/8081A
J1K417	280-17794-12	6010/7471/WTPH-D+/8260/8270A/ 8082/8081	6010B/7471A/NWTPH-Dx/8260B/8270C/ 8082/8081A
J1K418	280-17794-13	6010/7471/WTPH-D+/8260/8270A/ 8082/8081	6010B/7471A/NWTPH-Dx/8260B/8270C/ 8082/8081A

I certify that this data package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed in this Case Narrative. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or a designee, as verified by the signature on the Report Cover.

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted. Calculations are performed before rounding to avoid round-off errors in calculated results.

This report includes reporting limits (RLs) less than TestAmerica Denver's practical quantitation limits. These reporting limits are being used specifically at the client's request to meet the needs of this project. Please note that data are not normally reported to these levels without qualification, since they are inherently less reliable and potentially less defensible than required by the current NELAC standards.

The results, RLs and MDLs included in this report have been adjusted for dry weight, as appropriate.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 7/8/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were -0.6 C, -0.3 C, -0.4 C, 0.1 C and -0.7 C.

The 500mL container submitted for sample J1K411 requesting SVOA 8270C analysis was received with a cracked lid. The sample was not compromised; therefore, the lid was replaced and the laboratory proceeded with the requested analysis. The client was notified on 7/11/2011.

It can be noted that the coolers received at temperatures of -0.6 C and -0.3 C contained the 5035/8260B VOA samples.

GC/MS VOLATILES - SW846 8260B

Low levels of Methylene chloride, a common laboratory contaminant, are present in the method blank associated with batch 280-76252. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary. Associated sample results present above the MDL and/or RL have been flagged with a "B".

The MSD aliquot of the MS/MSD performed on sample J1K414 exhibited the percent recovery outside the control limits for 1,3-Dichlorobenzene. The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

GC/MS SEMIVOLATILES - SW846 8270C

Compounds Benzo(b)fluoranthene and Benzo(k)fluoranthene were unresolved in samples J1K409 and J1K414 due to matrix interferences. It can be noted that these compounds were adequately resolved in associated standards, indicating the instrument is achieving separation. The combined peak was reported as Benzo(b)fluoranthene, while Benzo(k)fluoranthene was reported as undetected even though it may be present. Associated results have been flagged with a "K".

Low levels of Bis(2-ethylhexyl) phthalate, a common laboratory contaminant, are present in the method blank associated with batch 280-75987. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary. Associated sample results present above the MDL and/or RL have been flagged with a "B".

No other anomalies were encountered.

GC SEMIVOLATILES - SW846 8081A - PESTICIDEs

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to analytes (4,4'-DDT) present above the linear calibration curve, sample J1K407 had to be analyzed at a 2X dilution, and the associated results have been flagged with a "D". The reporting limits have been adjusted relative to the dilution required.

The RPD between the primary and confirmation columns exceeded 40% for analytes in samples J1K407 and J1K409. The lower of the two values have been reported, as matrix interference is evident. Associated results have been flagged with an "X".

Surrogate Decachlorobiphenyl was recovered outside the control limits, biased high, in sample J1K409. The laboratory noted that this anomaly is due to obvious matrix interference; therefore, corrective action is deemed unnecessary.

The MS/MSD performed on sample J1K407 exhibited spike compound recoveries outside the control limits, and the associated sample results have been flagged "N". The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

A Continuing Calibration Verification (CCV) standard exhibited the %Difference (%D) value >15%, biased high, for surrogate Decachlorobiphenyl (+16%). The overall mean %D is ≤15%; therefore, method criteria have been met and corrective action is deemed unnecessary. For samples associated with this CCV, it can be noted that surrogate Decachlorobiphenyl was either in control or failed recovery criteria high due to obvious matrix interferences.

No other anomalies were encountered.

GC SEMIVOLATILES - SW846 8082 - PCBs

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to high constituent concentration, sample J1K407 had to be analyzed at a dilution, and the associated results have been flagged with a "D". The reporting limits have been adjusted relative to the dilution required.

Surrogate recoveries have been "D" flagged in sample J1K407, as the recoveries obtained are calculated from a diluted sample and are not considered reliable.

The RPD between the primary and confirmation columns exceeded 25% for Aroclor 1260 in samples J1K414 and J1K416. The results have been flagged with a "P".

No other anomalies were encountered.

GC SEMIVOLATILES - NWTPH-Dx - DRO

Surrogate o-Terphenyl was recovered outside the control limits, biased high, in sample J1K409. The laboratory noted that this anomaly is due to obvious matrix interference; therefore, corrective action is deemed unnecessary.

Low levels of C10-C28 are present in the method blank associated with batch 280-75945. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary. Associated sample results present above the MDL and/or RL have been flagged with a "B".

No other anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A

It can be noted that the sample amount was greater than four times the spike amount for Aluminum, Iron and Manganese in the Matrix Spike performed on sample J1K406; therefore, control limits are not applicable.

Silicon was recovered outside the control limits in the SW846 6010B Matrix Spike performed on sample J1K406, and the associated sample result has been flagged "N". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

The SW846 6010B duplicate analysis of sample J1K406 exhibited RPD data outside the control limits for Cadmium, and the associated sample result has been flagged "M". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Analyzed for but not detected.
	J	Indicates an Estimated Value for TICs
	T	MS, MSD: Recovery exceeds upper or lower control limits.
	N	Presumptive evidence of material.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA		
	B	Analyte was found in the associated method blank as well as in the sample.
	U	Analyzed for but not detected.
	K	Benzo (b&k) fluoranthene are unresolved due to matrix, result is reported as Benzo(b)fluoranthene.
	J	Indicates an Estimated Value for TICs
	N	Presumptive evidence of material.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Lab Section	Qualifier	Description
GC Semi VOA		
	B	Analyte was found in the associated method blank as well as in the sample.
	U	Analyzed for but not detected.
	X	More than 40% difference between columns, lower result reported.
	N	MS, MSD: Spike recovery exceeds upper or lower control limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	*	Surrogate exceeds the control limit
	D	The reported value is from a dilution.
	P	This flag is used for an aroclor target analyte where there is greater than 25% difference for detected concentrations between the two GC columns
Metals		
	U	Analyzed for but not detected.
	B	Estimated result. Result is less than the RL, but greater than MDL
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	N	Recovery exceeds upper or lower control limits
	M	Sample duplicate precision not met.
General Chemistry		
	U	Analyzed for but not detected.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Closed System Purge and Trap			SW846 5035
Semivolatile Organic Compounds (GC/MS)	TAL DEN	SW846 8270C	
Ultrasonic Extraction			SW846 3550C
Organochlorine Pesticides (GC)	TAL DEN	SW846 8081A	
Ultrasonic Extraction			SW846 3550C
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL DEN	SW846 8082	
Ultrasonic Extraction			SW846 3550C
Northwest - Semi-Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Dx	
Ultrasonic Extraction			SW846 3550C
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals			SW846 3050B
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury			SW846 7471A
ASTM D-2216	TAL DEN	ASTM D-2216	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

NWTPH = Northwest Total Petroleum Hydrocarbon

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Method	Analyst	Analyst ID
SW846 8260B	Jablonski, Kayla A	KAJ
SW846 8260B	Reinhardt, Jason	JR
SW846 8270C	Tinkham, Sarah A	SAT
SW846 8081A	Wells, David	DW
SW846 8082	Pavlakovich, Adam M	AMP
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Harre, John K	JKH
SW846 7471A	Niman, Katie M	KMN
ASTM D-2216	Berry III, Paul B	PBB

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-17794-1	J1K406	Solid	07/07/2011 0715	07/08/2011 0900
280-17794-2	J1K407	Solid	07/07/2011 0730	07/08/2011 0900
280-17794-3	J1K408	Solid	07/07/2011 0745	07/08/2011 0900
280-17794-4	J1K409	Solid	07/07/2011 0800	07/08/2011 0900
280-17794-5	J1K410	Solid	07/07/2011 0815	07/08/2011 0900
280-17794-6	J1K411	Solid	07/07/2011 0830	07/08/2011 0900
280-17794-7	J1K412	Solid	07/07/2011 0845	07/08/2011 0900
280-17794-8	J1K413	Solid	07/07/2011 0900	07/08/2011 0900
280-17794-9	J1K414	Solid	07/07/2011 0915	07/08/2011 0900
280-17794-10	J1K415	Solid	07/07/2011 0930	07/08/2011 0900
280-17794-11	J1K416	Solid	07/07/2011 0945	07/08/2011 0900
280-17794-12	J1K417	Solid	07/07/2011 0955	07/08/2011 0900
280-17794-13FD	J1K418	Solid	07/07/2011 0845	07/08/2011 0900

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K406**

Lab Sample ID: 280-17794-1
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0715
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76618	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7952.D
Dilution:	1.0			Initial Weight/Volume:	4.562 g
Analysis Date:	07/12/2011 1525			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		8.7	J	5.9	22
Benzene		0.52	U	0.52	5.5
Bromodichloromethane		0.24	U	0.24	5.5
Bromoform		0.25	U	0.25	5.5
Bromomethane		0.55	U	0.55	11
2-Butanone (MEK)		2.0	U	2.0	11
Carbon disulfide		0.46	U	0.46	5.5
Carbon tetrachloride		0.69	U	0.69	5.5
Chlorobenzene		0.59	U	0.59	5.5
Dibromochloromethane		0.63	U	0.63	5.5
Chloroethane		0.98	U	0.98	11
Chloroform		0.32	U	0.32	5.5
Chloromethane		0.85	U	0.85	11
1,1-Dichloroethane		0.23	U	0.23	5.5
1,2-Dichloroethane		0.77	U	0.77	5.5
1,1-Dichloroethene		0.65	U	0.65	5.5
1,2-Dichloroethene, Total		0.43	U	0.43	5.5
1,2-Dichloropropane		0.60	U	0.60	5.5
cis-1,3-Dichloropropene		1.4	U	1.4	5.5
trans-1,3-Dichloropropene		0.74	U	0.74	5.5
Ethylbenzene		2.2	J	0.74	5.5
2-Hexanone		5.4	U	5.4	22
Methylene Chloride		0.82	U	0.82	5.5
4-Methyl-2-pentanone (MIBK)		4.8	U	4.8	11
Styrene		0.69	U	0.69	5.5
1,1,2,2-Tetrachloroethane		0.67	U	0.67	5.5
Tetrachloroethene		0.65	U	0.65	5.5
Toluene		0.76	U	0.76	5.5
1,1,1-Trichloroethane		0.57	U	0.57	5.5
1,1,2-Trichloroethane		0.97	U	0.97	5.5
Trichloroethene		0.25	U	0.25	5.5
Vinyl chloride		1.5	U	1.5	5.5
Xylenes, Total		2.6	J	0.67	5.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		58 - 140
Toluene-d8 (Surr)	99		80 - 126
4-Bromofluorobenzene (Surr)	100		76 - 127
Dibromofluoromethane (Surr)	96		75 - 121

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K406**

Lab Sample ID: 280-17794-1
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0715
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76618	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7952.D
Dilution:	1.0			Initial Weight/Volume:	4.562 g
Analysis Date:	07/12/2011 1525			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	
136777-61-2	m-Xylene & p-Xylene	10.27	1.7	J J N
95-47-6	o-Xylene	10.81	0.93	J J N

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K407**

Lab Sample ID: 280-17794-2
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0730
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76618	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7953.D
Dilution:	1.0			Initial Weight/Volume:	4.391 g
Analysis Date:	07/12/2011 1548			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		18	J	6.1	23
Benzene		0.54	U	0.54	5.7
Bromodichloromethane		0.25	U	0.25	5.7
Bromoform		0.26	U	0.26	5.7
Bromomethane		0.57	U	0.57	11
2-Butanone (MEK)		2.4	J	2.1	11
Carbon disulfide		0.48	U	0.48	5.7
Carbon tetrachloride		0.72	U	0.72	5.7
Chlorobenzene		0.62	U	0.62	5.7
Dibromochloromethane		0.65	U	0.65	5.7
Chloroethane		1.0	U	1.0	11
Chloroform		0.33	U	0.33	5.7
Chloromethane		0.88	U	0.88	11
1,1-Dichloroethane		0.24	U	0.24	5.7
1,2-Dichloroethane		0.80	U	0.80	5.7
1,1-Dichloroethene		0.67	U	0.67	5.7
1,2-Dichloroethene, Total		0.44	U	0.44	5.7
1,2-Dichloropropane		0.63	U	0.63	5.7
cis-1,3-Dichloropropene		1.5	U	1.5	5.7
trans-1,3-Dichloropropene		0.76	U	0.76	5.7
Ethylbenzene		1.2	J	0.76	5.7
2-Hexanone		5.6	U	5.6	23
Methylene Chloride		0.86	U	0.86	5.7
4-Methyl-2-pentanone (MIBK)		5.0	U	5.0	11
Styrene		0.72	U	0.72	5.7
1,1,2,2-Tetrachloroethane		0.70	U	0.70	5.7
Tetrachloroethene		0.67	U	0.67	5.7
Toluene		0.79	U	0.79	5.7
1,1,1-Trichloroethane		0.59	U	0.59	5.7
1,1,2-Trichloroethane		1.0	U	1.0	5.7
Trichloroethene		0.26	U	0.26	5.7
Vinyl chloride		1.5	U	1.5	5.7
Xylenes, Total		0.70	U	0.70	5.7

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		58 - 140
Toluene-d8 (Surr)	102		80 - 126
4-Bromofluorobenzene (Surr)	116		76 - 127
Dibromofluoromethane (Surr)	96		75 - 121

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K407**

Lab Sample ID: 280-17794-2
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0730
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76618	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7953.D
Dilution:	1.0			Initial Weight/Volume:	4.391 g
Analysis Date:	07/12/2011 1548			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K408**

Lab Sample ID: 280-17794-3
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0745
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76618	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7954.D
Dilution:	1.0			Initial Weight/Volume:	4.577 g
Analysis Date:	07/12/2011 1610			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		7.4	J	5.9	22
Benzene		0.51	U	0.51	5.5
Bromodichloromethane		0.24	U	0.24	5.5
Bromoform		0.25	U	0.25	5.5
Bromomethane		0.55	U	0.55	11
2-Butanone (MEK)		2.0	U	2.0	11
Carbon disulfide		0.46	U	0.46	5.5
Carbon tetrachloride		0.69	U	0.69	5.5
Chlorobenzene		0.59	U	0.59	5.5
Dibromochloromethane		0.62	U	0.62	5.5
Chloroethane		0.97	U	0.97	11
Chloroform		0.32	U	0.32	5.5
Chloromethane		0.84	U	0.84	11
1,1-Dichloroethane		0.23	U	0.23	5.5
1,2-Dichloroethane		0.76	U	0.76	5.5
1,1-Dichloroethene		0.64	U	0.64	5.5
1,2-Dichloroethene, Total		0.43	U	0.43	5.5
1,2-Dichloropropane		0.60	U	0.60	5.5
cis-1,3-Dichloropropene		1.4	U	1.4	5.5
trans-1,3-Dichloropropene		0.73	U	0.73	5.5
Ethylbenzene		0.74	J	0.73	5.5
2-Hexanone		5.3	U	5.3	22
Methylene Chloride		0.82	U	0.82	5.5
4-Methyl-2-pentanone (MIBK)		4.8	U	4.8	11
Styrene		0.69	U	0.69	5.5
1,1,2,2-Tetrachloroethane		0.67	U	0.67	5.5
Tetrachloroethene		0.64	U	0.64	5.5
Toluene		0.75	U	0.75	5.5
1,1,1-Trichloroethane		0.57	U	0.57	5.5
1,1,2-Trichloroethane		0.96	U	0.96	5.5
Trichloroethene		0.25	U	0.25	5.5
Vinyl chloride		1.5	U	1.5	5.5
Xylenes, Total		0.67	U	0.67	5.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		58 - 140
Toluene-d8 (Surr)	97		80 - 126
4-Bromofluorobenzene (Surr)	97		76 - 127
Dibromofluoromethane (Surr)	94		75 - 121

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K408**

Lab Sample ID: 280-17794-3
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0745
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76618	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7954.D
Dilution:	1.0			Initial Weight/Volume:	4.577 g
Analysis Date:	07/12/2011 1610			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K409**

Lab Sample ID: 280-17794-4
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0800
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76618	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7960.D
Dilution:	1.0			Initial Weight/Volume:	4.694 g
Analysis Date:	07/12/2011 1826			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		15	J	5.7	21
Benzene		0.50	U	0.50	5.3
Bromodichloromethane		0.23	U	0.23	5.3
Bromoform		0.24	U	0.24	5.3
Bromomethane		0.53	U	0.53	11
2-Butanone (MEK)		2.6	J	1.9	11
Carbon disulfide		0.45	U	0.45	5.3
Carbon tetrachloride		0.67	U	0.67	5.3
Chlorobenzene		0.58	U	0.58	5.3
Dibromochloromethane		0.61	U	0.61	5.3
Chloroethane		0.95	U	0.95	11
Chloroform		0.31	U	0.31	5.3
Chloromethane		0.82	U	0.82	11
1,1-Dichloroethane		0.22	U	0.22	5.3
1,2-Dichloroethane		0.75	U	0.75	5.3
1,1-Dichloroethene		0.63	U	0.63	5.3
1,2-Dichloroethene, Total		0.42	U	0.42	5.3
1,2-Dichloropropane		0.59	U	0.59	5.3
cis-1,3-Dichloropropene		1.4	U	1.4	5.3
trans-1,3-Dichloropropene		0.71	U	0.71	5.3
Ethylbenzene		1.7	J	0.71	5.3
2-Hexanone		5.2	U	5.2	21
Methylene Chloride		0.80	U	0.80	5.3
4-Methyl-2-pentanone (MIBK)		4.6	U	4.6	11
Styrene		0.67	U	0.67	5.3
1,1,2,2-Tetrachloroethane		0.65	U	0.65	5.3
Tetrachloroethene		0.63	U	0.63	5.3
Toluene		0.73	U	0.73	5.3
1,1,1-Trichloroethane		0.55	U	0.55	5.3
1,1,2-Trichloroethane		0.94	U	0.94	5.3
Trichloroethene		0.24	U	0.24	5.3
Vinyl chloride		1.4	U	1.4	5.3
Xylenes, Total		2.1	J	0.65	5.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		58 - 140
Toluene-d8 (Surr)	113		80 - 126
4-Bromofluorobenzene (Surr)	110		76 - 127
Dibromofluoromethane (Surr)	110		75 - 121

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K409**

Lab Sample ID: 280-17794-4
Client Matrix: Solid % Moisture: 0.0

Date Sampled: 07/07/2011 0800
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76618	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7960.D
Dilution:	1.0			Initial Weight/Volume:	4.694 g
Analysis Date:	07/12/2011 1826			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	
136777-61-2	m-Xylene & p-Xylene	10.27	1.4	J J N
95-47-6	o-Xylene	10.81	0.75	J J N

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K410**

Lab Sample ID: 280-17794-5
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0815
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76618	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7958.D
Dilution:	1.0			Initial Weight/Volume:	4.314 g
Analysis Date:	07/12/2011 1741			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.2	U	6.2	23
Benzene		0.54	U	0.54	5.8
Bromodichloromethane		0.25	U	0.25	5.8
Bromoform		0.27	U	0.27	5.8
Bromomethane		0.58	U	0.58	12
2-Butanone (MEK)		2.1	U	2.1	12
Carbon disulfide		0.49	U	0.49	5.8
Carbon tetrachloride		0.73	U	0.73	5.8
Chlorobenzene		0.63	U	0.63	5.8
Dibromochloromethane		0.66	U	0.66	5.8
Chloroethane		1.0	U	1.0	12
Chloroform		0.34	U	0.34	5.8
Chloromethane		0.89	U	0.89	12
1,1-Dichloroethane		0.24	U	0.24	5.8
1,2-Dichloroethane		0.81	U	0.81	5.8
1,1-Dichloroethene		0.68	U	0.68	5.8
1,2-Dichloroethene, Total		0.45	U	0.45	5.8
1,2-Dichloropropane		0.64	U	0.64	5.8
cis-1,3-Dichloropropene		1.5	U	1.5	5.8
trans-1,3-Dichloropropene		0.78	U	0.78	5.8
Ethylbenzene		1.5	J	0.78	5.8
2-Hexanone		5.7	U	5.7	23
Methylene Chloride		0.87	U	0.87	5.8
4-Methyl-2-pentanone (MIBK)		5.1	U	5.1	12
Styrene		0.73	U	0.73	5.8
1,1,2,2-Tetrachloroethane		0.71	U	0.71	5.8
Tetrachloroethene		0.68	U	0.68	5.8
Toluene		0.80	U	0.80	5.8
1,1,1-Trichloroethane		0.60	U	0.60	5.8
1,1,2-Trichloroethane		1.0	U	1.0	5.8
Trichloroethene		0.27	U	0.27	5.8
Vinyl chloride		1.6	U	1.6	5.8
Xylenes, Total		1.3	J	0.71	5.8

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99		58 - 140
Toluene-d8 (Surr)	104		80 - 126
4-Bromofluorobenzene (Surr)	102		76 - 127
Dibromofluoromethane (Surr)	104		75 - 121

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K410**

Lab Sample ID: 280-17794-5
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0815
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76618	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7958.D
Dilution:	1.0			Initial Weight/Volume:	4.314 g
Analysis Date:	07/12/2011 1741			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	
136777-61-2	m-Xylene & p-Xylene	10.27	1.3	J J N

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K411**

Lab Sample ID: 280-17794-6
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0830
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76618	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7959.D
Dilution:	1.0			Initial Weight/Volume:	4.410 g
Analysis Date:	07/12/2011 1804			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		8.2	J	6.1	23
Benzene		0.53	U	0.53	5.7
Bromodichloromethane		0.25	U	0.25	5.7
Bromoform		0.26	U	0.26	5.7
Bromomethane		0.57	U	0.57	11
2-Butanone (MEK)		2.1	U	2.1	11
Carbon disulfide		0.48	U	0.48	5.7
Carbon tetrachloride		0.71	U	0.71	5.7
Chlorobenzene		0.61	U	0.61	5.7
Dibromochloromethane		0.65	U	0.65	5.7
Chloroethane		1.0	U	1.0	11
Chloroform		0.33	U	0.33	5.7
Chloromethane		0.87	U	0.87	11
1,1-Dichloroethane		0.24	U	0.24	5.7
1,2-Dichloroethane		0.79	U	0.79	5.7
1,1-Dichloroethene		0.67	U	0.67	5.7
1,2-Dichloroethene, Total		0.44	U	0.44	5.7
1,2-Dichloropropane		0.62	U	0.62	5.7
cis-1,3-Dichloropropene		1.5	U	1.5	5.7
trans-1,3-Dichloropropene		0.76	U	0.76	5.7
Ethylbenzene		1.3	J	0.76	5.7
2-Hexanone		5.5	U	5.5	23
Methylene Chloride		0.85	U	0.85	5.7
4-Methyl-2-pentanone (MIBK)		4.9	U	4.9	11
Styrene		0.71	U	0.71	5.7
1,1,2,2-Tetrachloroethane		0.69	U	0.69	5.7
Tetrachloroethene		0.67	U	0.67	5.7
Toluene		0.78	U	0.78	5.7
1,1,1-Trichloroethane		0.59	U	0.59	5.7
1,1,2-Trichloroethane		1.0	U	1.0	5.7
Trichloroethene		0.26	U	0.26	5.7
Vinyl chloride		1.5	U	1.5	5.7
Xylenes, Total		0.69	U	0.69	5.7

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		58 - 140
Toluene-d8 (Surr)	97		80 - 126
4-Bromofluorobenzene (Surr)	97		76 - 127
Dibromofluoromethane (Surr)	95		75 - 121

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K411**

Lab Sample ID: 280-17794-6
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0830
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76618	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7959.D
Dilution:	1.0			Initial Weight/Volume:	4.410 g
Analysis Date:	07/12/2011 1804			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K412**

Lab Sample ID: 280-17794-7
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76476	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7988.D
Dilution:	1.0			Initial Weight/Volume:	4.184 g
Analysis Date:	07/13/2011 0456			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.4	U	6.4	24
Benzene		0.56	U	0.56	6.0
Bromodichloromethane		0.26	U	0.26	6.0
Bromoform		0.28	U	0.28	6.0
Bromomethane		0.60	U	0.60	12
2-Butanone (MEK)		2.2	U	2.2	12
Carbon disulfide		0.50	U	0.50	6.0
Carbon tetrachloride		0.75	U	0.75	6.0
Chlorobenzene		0.65	U	0.65	6.0
Dibromochloromethane		0.68	U	0.68	6.0
Chloroethane		1.1	U	1.1	12
Chloroform		0.35	U	0.35	6.0
Chloromethane		0.92	U	0.92	12
1,1-Dichloroethane		0.25	U	0.25	6.0
1,2-Dichloroethane		0.84	U	0.84	6.0
1,1-Dichloroethene		0.71	U	0.71	6.0
1,2-Dichloroethene, Total		0.47	U	0.47	6.0
1,2-Dichloropropane		0.66	U	0.66	6.0
cis-1,3-Dichloropropene		1.5	U	1.5	6.0
trans-1,3-Dichloropropene		0.80	U	0.80	6.0
Ethylbenzene		1.8	J	0.80	6.0
2-Hexanone		5.8	U	5.8	24
Methylene Chloride		0.90	U	0.90	6.0
4-Methyl-2-pentanone (MIBK)		5.2	U	5.2	12
Styrene		0.75	U	0.75	6.0
1,1,2,2-Tetrachloroethane		0.73	U	0.73	6.0
Tetrachloroethene		0.71	U	0.71	6.0
Toluene		0.83	U	0.83	6.0
1,1,1-Trichloroethane		0.62	U	0.62	6.0
1,1,2-Trichloroethane		1.1	U	1.1	6.0
Trichloroethene		0.28	U	0.28	6.0
Vinyl chloride		1.6	U	1.6	6.0
Xylenes, Total		2.1	J	0.73	6.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	82		58 - 140
Toluene-d8 (Surr)	86		80 - 126
4-Bromofluorobenzene (Surr)	85		76 - 127
Dibromofluoromethane (Surr)	85		75 - 121

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K412**

Lab Sample ID: 280-17794-7
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76476	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7988.D
Dilution:	1.0			Initial Weight/Volume:	4.184 g
Analysis Date:	07/13/2011 0456			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	
136777-61-2	m-Xylene & p-Xylene	10.25	1.4	J N J
95-47-6	o-Xylene	10.79	0.77	J N J

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K413**

Lab Sample ID: 280-17794-8
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0900
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76476	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7968.D
Dilution:	1.0 .			Initial Weight/Volume:	4.683 g
Analysis Date:	07/12/2011 2122			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		20	J	5.7	21
Benzene		0.50	U	0.50	5.3
Bromodichloromethane		0.23	U	0.23	5.3
Bromoform		0.25	U	0.25	5.3
Bromomethane		0.53	U	0.53	11
2-Butanone (MEK)		2.9	J	2.0	11
Carbon disulfide		0.45	U	0.45	5.3
Carbon tetrachloride		0.67	U	0.67	5.3
Chlorobenzene		0.58	U	0.58	5.3
Dibromochloromethane		0.61	U	0.61	5.3
Chloroethane		0.95	U	0.95	11
Chloroform		0.31	U	0.31	5.3
Chloromethane		0.82	U	0.82	11
1,1-Dichloroethane		0.22	U	0.22	5.3
1,2-Dichloroethane		0.75	U	0.75	5.3
1,1-Dichloroethene		0.63	U	0.63	5.3
1,2-Dichloroethene, Total		0.42	U	0.42	5.3
1,2-Dichloropropane		0.59	U	0.59	5.3
cis-1,3-Dichloropropene		1.4	U	1.4	5.3
trans-1,3-Dichloropropene		0.72	U	0.72	5.3
Ethylbenzene		1.7	J	0.72	5.3
2-Hexanone		5.2	U	5.2	21
Methylene Chloride		0.80	U	0.80	5.3
4-Methyl-2-pentanone (MIBK)		4.7	U	4.7	11
Styrene		0.67	U	0.67	5.3
1,1,2,2-Tetrachloroethane		0.65	U	0.65	5.3
Tetrachloroethene		0.63	U	0.63	5.3
Toluene		0.74	U	0.74	5.3
1,1,1-Trichloroethane		0.56	U	0.56	5.3
1,1,2-Trichloroethane		0.94	U	0.94	5.3
Trichloroethene		0.25	U	0.25	5.3
Vinyl chloride		1.4	U	1.4	5.3
Xylenes, Total		2.0	J	0.65	5.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103		58 - 140
Toluene-d8 (Surr)	112		80 - 126
4-Bromofluorobenzene (Surr)	115		76 - 127
Dibromofluoromethane (Surr)	110		75 - 121

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K413**

Lab Sample ID: 280-17794-8
Client Matrix: Solid % Moisture: 0.0

Date Sampled: 07/07/2011 0900
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76476	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7968.D
Dilution:	1.0			Initial Weight/Volume:	4.683 g
Analysis Date:	07/12/2011 2122			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	
136777-61-2	m-Xylene & p-Xylene	10.27	1.3	J N J
95-47-6	o-Xylene	10.81	0.74	J N J

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K414**

Lab Sample ID: 280-17794-9
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0915
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76476	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7969.D
Dilution:	1.0			Initial Weight/Volume:	4.51 g
Analysis Date:	07/12/2011 2145			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		63		6.0	22
Benzene		0.52	U	0.52	5.5
Bromodichloromethane		0.24	U	0.24	5.5
Bromoform		0.25	U	0.25	5.5
Bromomethane		0.55	U	0.55	11
2-Butanone (MEK)		8.6	J	2.0	11
Carbon disulfide		0.47	U	0.47	5.5
Carbon tetrachloride		0.70	U	0.70	5.5
Chlorobenzene		0.60	U	0.60	5.5
Dibromochloromethane		0.63	U	0.63	5.5
Chloroethane		0.99	U	0.99	11
Chloroform		0.32	U	0.32	5.5
Chloromethane		0.85	U	0.85	11
1,1-Dichloroethane		0.23	U	0.23	5.5
1,2-Dichloroethane		0.78	U	0.78	5.5
1,1-Dichloroethene		0.65	U	0.65	5.5
1,2-Dichloroethene, Total		0.43	U	0.43	5.5
1,2-Dichloropropane		0.61	U	0.61	5.5
cis-1,3-Dichloropropene		1.4	U	1.4	5.5
trans-1,3-Dichloropropene		0.74	U	0.74	5.5
Ethylbenzene		1.1	J	0.74	5.5
2-Hexanone		5.4	U	5.4	22
Methylene Chloride		0.83	U	0.83	5.5
4-Methyl-2-pentanone (MIBK)		4.8	U	4.8	11
Styrene		0.70	U	0.70	5.5
1,1,2,2-Tetrachloroethane		0.68	U	0.68	5.5
Tetrachloroethene		0.65	U	0.65	5.5
Toluene		0.76	U	0.76	5.5
1,1,1-Trichloroethane		0.58	U	0.58	5.5
1,1,2-Trichloroethane		0.98	U	0.98	5.5
Trichloroethene		0.25	U	0.25	5.5
Vinyl chloride		1.5	U	1.5	5.5
Xylenes, Total		0.68	U	0.68	5.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96		58 - 140
Toluene-d8 (Surr)	102		80 - 126
4-Bromofluorobenzene (Surr)	107		76 - 127
Dibromofluoromethane (Surr)	100		75 - 121

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K414**

Lab Sample ID: 280-17794-9
Client Matrix: Solid % Moisture: 0.0

Date Sampled: 07/07/2011 0915
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76476	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7969.D
Dilution:	1.0			Initial Weight/Volume:	4.51 g
Analysis Date:	07/12/2011 2145			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K415**

Lab Sample ID: 280-17794-10
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0930
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76476	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7972.D
Dilution:	1.0			Initial Weight/Volume:	4.378 g
Analysis Date:	07/12/2011 2253			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.3	J	6.1	23
Benzene		0.54	U	0.54	5.7
Bromodichloromethane		0.25	U	0.25	5.7
Bromoform		0.26	U	0.26	5.7
Bromomethane		0.57	U	0.57	11
2-Butanone (MEK)		2.1	U	2.1	11
Carbon disulfide		0.48	U	0.48	5.7
Carbon tetrachloride		0.72	U	0.72	5.7
Chlorobenzene		0.62	U	0.62	5.7
Dibromochloromethane		0.65	U	0.65	5.7
Chloroethane		1.0	U	1.0	11
Chloroform		0.33	U	0.33	5.7
Chloromethane		0.88	U	0.88	11
1,1-Dichloroethane		0.24	U	0.24	5.7
1,2-Dichloroethane		0.80	U	0.80	5.7
1,1-Dichloroethene		0.67	U	0.67	5.7
1,2-Dichloroethene, Total		0.45	U	0.45	5.7
1,2-Dichloropropane		0.63	U	0.63	5.7
cis-1,3-Dichloropropene		1.5	U	1.5	5.7
trans-1,3-Dichloropropene		0.77	U	0.77	5.7
Ethylbenzene		1.6	J	0.77	5.7
2-Hexanone		5.6	U	5.6	23
Methylene Chloride		0.86	U	0.86	5.7
4-Methyl-2-pentanone (MIBK)		5.0	U	5.0	11
Styrene		0.72	U	0.72	5.7
1,1,2,2-Tetrachloroethane		0.70	U	0.70	5.7
Tetrachloroethene		0.67	U	0.67	5.7
Toluene		0.79	U	0.79	5.7
1,1,1-Trichloroethane		0.59	U	0.59	5.7
1,1,2-Trichloroethane		1.0	U	1.0	5.7
Trichloroethene		0.26	U	0.26	5.7
Vinyl chloride		1.5	U	1.5	5.7
Xylenes, Total		1.2	J	0.70	5.7

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		58 - 140
Toluene-d8 (Surr)	97		80 - 126
4-Bromofluorobenzene (Surr)	98		76 - 127
Dibromofluoromethane (Surr)	97		75 - 121

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K415**

Lab Sample ID: 280-17794-10
Client Matrix: Solid % Moisture: 0.1

Date Sampled: 07/07/2011 0930
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76476	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7972.D
Dilution:	1.0			Initial Weight/Volume:	4.378 g
Analysis Date:	07/12/2011 2253			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Tentatively Identified Compounds **Number TIC's Found:** 1

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	
136777-61-2	m-Xylene & p-Xylene	10.25	1.2	J N J

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K416**

Lab Sample ID: 280-17794-11
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 07/07/2011 0945
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76476	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7973.D
Dilution:	1.0			Initial Weight/Volume:	4.279 g
Analysis Date:	07/12/2011 2316			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		61		6.4	24
Benzene		0.56	U	0.56	5.9
Bromodichloromethane		0.26	U	0.26	5.9
Bromoform		0.27	U	0.27	5.9
Bromomethane		0.59	U	0.59	12
2-Butanone (MEK)		6.6	J	2.2	12
Carbon disulfide		0.50	U	0.50	5.9
Carbon tetrachloride		0.75	U	0.75	5.9
Chlorobenzene		0.64	U	0.64	5.9
Dibromochloromethane		0.67	U	0.67	5.9
Chloroethane		1.1	U	1.1	12
Chloroform		0.34	U	0.34	5.9
Chloromethane		0.91	U	0.91	12
1,1-Dichloroethane		0.25	U	0.25	5.9
1,2-Dichloroethane		0.83	U	0.83	5.9
1,1-Dichloroethene		0.70	U	0.70	5.9
1,2-Dichloroethene, Total		0.46	U	0.46	5.9
1,2-Dichloropropane		0.65	U	0.65	5.9
cis-1,3-Dichloropropene		1.5	U	1.5	5.9
trans-1,3-Dichloropropene		0.79	U	0.79	5.9
Ethylbenzene		1.1	J	0.79	5.9
2-Hexanone		5.8	U	5.8	24
Methylene Chloride		0.89	U	0.89	5.9
4-Methyl-2-pentanone (MIBK)		5.2	U	5.2	12
Styrene		0.75	U	0.75	5.9
1,1,2,2-Tetrachloroethane		0.72	U	0.72	5.9
Tetrachloroethene		0.70	U	0.70	5.9
Toluene		0.82	U	0.82	5.9
1,1,1-Trichloroethane		0.61	U	0.61	5.9
1,1,2-Trichloroethane		1.0	U	1.0	5.9
Trichloroethene		0.27	U	0.27	5.9
Vinyl chloride		1.6	U	1.6	5.9
Xylenes, Total		0.72	U	0.72	5.9

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		58 - 140
Toluene-d8 (Surr)	112		80 - 126
4-Bromofluorobenzene (Surr)	125		76 - 127
Dibromofluoromethane (Surr)	97		75 - 121

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K416**

Lab Sample ID: 280-17794-11
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 07/07/2011 0945
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76476	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7973.D
Dilution:	1.0			Initial Weight/Volume:	4.279 g
Analysis Date:	07/12/2011 2316			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K417**

Lab Sample ID: 280-17794-12
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0955
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76476	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7974.D
Dilution:	1.0			Initial Weight/Volume:	5.833 g
Analysis Date:	07/12/2011 2338			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		41		4.6	17
Benzene		0.40	U	0.40	4.3
Bromodichloromethane		0.19	U	0.19	4.3
Bromoform		0.20	U	0.20	4.3
Bromomethane		0.43	U	0.43	8.6
2-Butanone (MEK)		5.4	J	1.6	8.6
Carbon disulfide		0.36	U	0.36	4.3
Carbon tetrachloride		0.54	U	0.54	4.3
Chlorobenzene		0.46	U	0.46	4.3
Dibromochloromethane		0.49	U	0.49	4.3
Chloroethane		0.76	U	0.76	8.6
Chloroform		0.25	U	0.25	4.3
Chloromethane		0.66	U	0.66	8.6
1,1-Dichloroethane		0.18	U	0.18	4.3
1,2-Dichloroethane		0.60	U	0.60	4.3
1,1-Dichloroethene		0.51	U	0.51	4.3
1,2-Dichloroethene, Total		0.33	U	0.33	4.3
1,2-Dichloropropane		0.47	U	0.47	4.3
cis-1,3-Dichloropropene		1.1	U	1.1	4.3
trans-1,3-Dichloropropene		0.58	U	0.58	4.3
Ethylbenzene		0.66	J	0.58	4.3
2-Hexanone		4.2	U	4.2	17
Methylene Chloride		0.64	U	0.64	4.3
4-Methyl-2-pentanone (MIBK)		3.7	U	3.7	8.6
Styrene		0.54	U	0.54	4.3
1,1,2,2-Tetrachloroethane		0.52	U	0.52	4.3
Tetrachloroethene		0.51	U	0.51	4.3
Toluene		0.59	U	0.59	4.3
1,1,1-Trichloroethane		0.45	U	0.45	4.3
1,1,2-Trichloroethane		0.76	U	0.76	4.3
Trichloroethene		0.20	U	0.20	4.3
Vinyl chloride		1.2	U	1.2	4.3
Xylenes, Total		0.52	U	0.52	4.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		58 - 140
Toluene-d8 (Surr)	98		80 - 126
4-Bromofluorobenzene (Surr)	104		76 - 127
Dibromofluoromethane (Surr)	95		75 - 121

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K417**

Lab Sample ID: 280-17794-12
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0955
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76476	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7974.D
Dilution:	1.0			Initial Weight/Volume:	5.833 g
Analysis Date:	07/12/2011 2338			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K418**

Lab Sample ID: 280-17794-13FD
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76476	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7975.D
Dilution:	1.0			Initial Weight/Volume:	4.237 g
Analysis Date:	07/13/2011 0001			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		9.4	J	6.4	24
Benzene		0.56	U	0.56	5.9
Bromodichloromethane		0.26	U	0.26	5.9
Bromoform		0.27	U	0.27	5.9
Bromomethane		0.59	U	0.59	12
2-Butanone (MEK)		2.2	U	2.2	12
Carbon disulfide		0.50	U	0.50	5.9
Carbon tetrachloride		0.74	U	0.74	5.9
Chlorobenzene		0.64	U	0.64	5.9
Dibromochloromethane		0.67	U	0.67	5.9
Chloroethane		1.1	U	1.1	12
Chloroform		0.34	U	0.34	5.9
Chloromethane		0.91	U	0.91	12
1,1-Dichloroethane		0.25	U	0.25	5.9
1,2-Dichloroethane		0.83	U	0.83	5.9
1,1-Dichloroethene		0.70	U	0.70	5.9
1,2-Dichloroethene, Total		0.46	U	0.46	5.9
1,2-Dichloropropane		0.65	U	0.65	5.9
cis-1,3-Dichloropropene		1.5	U	1.5	5.9
trans-1,3-Dichloropropene		0.79	U	0.79	5.9
Ethylbenzene		2.3	J	0.79	5.9
2-Hexanone		5.8	U	5.8	24
Methylene Chloride		0.89	U	0.89	5.9
4-Methyl-2-pentanone (MIBK)		5.2	U	5.2	12
Styrene		0.74	U	0.74	5.9
1,1,2,2-Tetrachloroethane		0.72	U	0.72	5.9
Tetrachloroethene		0.70	U	0.70	5.9
Toluene		0.82	U	0.82	5.9
1,1,1-Trichloroethane		0.61	U	0.61	5.9
1,1,2-Trichloroethane		1.0	U	1.0	5.9
Trichloroethene		0.27	U	0.27	5.9
Vinyl chloride		1.6	U	1.6	5.9
Xylenes, Total		2.8	J	0.72	5.9

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93		58 - 140
Toluene-d8 (Surr)	96		80 - 126
4-Bromofluorobenzene (Surr)	96		76 - 127
Dibromofluoromethane (Surr)	96		75 - 121

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K418**

Lab Sample ID: 280-17794-13FD
Client Matrix: Solid % Moisture: 0.2

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-76476	Instrument ID:	MSV_J
Prep Method:	5035	Prep Batch:	280-76252	Lab File ID:	J7975.D
Dilution:	1.0			Initial Weight/Volume:	4.237 g
Analysis Date:	07/13/2011 0001			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	
136777-61-2	m-Xylene & p-Xylene	10.26	1.8	J N J
95-47-6	o-Xylene	10.79	0.99	J N J

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K406**

Lab Sample ID: 280-17794-1
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0715
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1642.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	07/12/2011 2032			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		16	U	16	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		73	J B	45	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		81	U	81	330
4-Chloro-3-methylphenol		65	U	65	330
2-Chloronaphthalene		9.9	U	9.9	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		13	U	13	330
3,3'-Dichlorobenzidine		89	U	89	650
2,4-Dichlorophenol		9.9	U	9.9	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		65	U	65	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	650
2,4-Dinitrophenol		330	U	330	820
2,4-Dinitrotoluene		65	U	65	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		9.9	U	9.9	330
Hexachlorocyclopentadiene		49	U	49	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K406**

Lab Sample ID: 280-17794-1
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0715
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1642.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	07/12/2011 2032			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		49	U	49	330
3-Nitroaniline		72	U	72	330
4-Nitroaniline		72	U	72	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		9.9	U	9.9	330
4-Nitrophenol		96	U	96	650
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	650
Phenanthrene		17	U	17	330
Phenol		18	U	18	330
Pyrene		12	U	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		9.9	U	9.9	330
2,4,6-Trichlorophenol		9.9	U	9.9	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	83		50 - 120
2-Fluorophenol	80		53 - 120
Nitrobenzene-d5	82		50 - 120
Phenol-d5	83		52 - 120
Terphenyl-d14	97		55 - 120
2,4,6-Tribromophenol	94		51 - 120

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K406**

Lab Sample ID: 280-17794-1
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0715
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1642.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	07/12/2011 2032			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.24	3400	N J
5717-37-3	(Carbethoxyethylidine)triphenylphosphora	11.08	920	N J

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K407**

Lab Sample ID: 280-17794-2
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0730
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1643.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	07/12/2011 2052			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		74	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		82	U	82	330
4-Chloro-3-methylphenol		66	U	66	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		90	U	90	660
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		66	U	66	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	660
2,4-Dinitrophenol		330	U	330	820
2,4-Dinitrotoluene		66	U	66	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		23	J	19	330

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K407**

Lab Sample ID: 280-17794-2
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0730
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1643.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	07/12/2011 2052			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		50	U	50	330
3-Nitroaniline		73	U	73	330
4-Nitroaniline		72	U	72	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		10	U	10	330
4-Nitrophenol		97	U	97	660
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	660
Phenanthrene		17	J	17	330
Phenol		18	U	18	330
Pyrene		21	J	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		10	U	10	330
2,4,6-Trichlorophenol		10	U	10	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	81		50 - 120
2-Fluorophenol	74		53 - 120
Nitrobenzene-d5	75		50 - 120
Phenol-d5	78		52 - 120
Terphenyl-d14	103		55 - 120
2,4,6-Tribromophenol	98		51 - 120

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K407**

Lab Sample ID: 280-17794-2
Client Matrix: Solid % Moisture: 0.2

Date Sampled: 07/07/2011 0730
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1643.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	07/12/2011 2052			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **16**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.62	150	N J
	Unknown	3.24	3500	N J
90-12-0	1-Methylnaphthalene	6.78	21	J J N
544-76-3	Hexadecane	7.99	40	J J N
483-78-3	Naphthalene, 1,6-dimethyl-4-(1-methyleth	8.44	160	N J
593-45-3	Octadecane	10.21	150	N J
483-65-8	Phenanthrene, 1-methyl-7-(1-methylethyl)	10.25	190	N J
52712-04-6	1,1"-Biphenyl, 2,2",3,4,5,5"-hexachloro-	10.29	150	N J
593-45-3	Octadecane	10.47	200	N J
38380-08-4	1,1"-Biphenyl, 2,3,3",4,4",5-hexachloro-	10.61	220	N J
	Unknown	10.72	170	N J
630-01-3	Hexacosane	10.98	140	N J
39635-31-9	1,1"-Biphenyl, 2,3,3",4,4",5,5"-heptachl	11.00	180	N J
112-95-8	Eicosane	11.22	160	N J
112-95-8	Eicosane	11.75	140	N J
	Unknown	14.79	160	N J

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K408**

Lab Sample ID: 280-17794-3
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0745
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1644.D
Dilution:	1.0			Initial Weight/Volume:	32.3 g
Analysis Date:	07/12/2011 2113			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.6	U	9.6	310
Acenaphthylene		16	U	16	310
Anthracene		16	U	16	310
Benzo[a]anthracene		19	U	19	310
Benzo[a]pyrene		19	U	19	310
Benzo[b]fluoranthene		24	U	24	310
Benzo[ghi]perylene		15	U	15	310
Benzo[k]fluoranthene		37	U	37	310
Bis(2-chloroethoxy)methane		21	U	21	310
Bis(2-chloroethyl)ether		15	U	15	310
bis (2-chloroisopropyl) ether		21	U	21	310
Bis(2-ethylhexyl) phthalate		70	J B	43	310
4-Bromophenyl phenyl ether		18	U	18	310
Butyl benzyl phthalate		40	U	40	310
Carbazole		33	U	33	310
4-Chloroaniline		76	U	76	310
4-Chloro-3-methylphenol		61	U	61	310
2-Chloronaphthalene		9.3	U	9.3	310
2-Chlorophenol		20	U	20	310
4-Chlorophenyl phenyl ether		20	U	20	310
Chrysene		25	U	25	310
Dibenz(a,h)anthracene		18	U	18	310
Dibenzofuran		19	U	19	310
1,2-Dichlorobenzene		20	U	20	310
1,3-Dichlorobenzene		11	U	11	310
1,4-Dichlorobenzene		13	U	13	310
3,3'-Dichlorobenzidine		84	U	84	610
2,4-Dichlorophenol		9.3	U	9.3	310
Diethyl phthalate		24	U	24	310
2,4-Dimethylphenol		61	U	61	310
Dimethyl phthalate		21	U	21	310
Di-n-butyl phthalate		27	U	27	310
4,6-Dinitro-2-methylphenol		310	U	310	610
2,4-Dinitrophenol		310	U	310	770
2,4-Dinitrotoluene		61	U	61	310
2,6-Dinitrotoluene		26	U	26	310
Di-n-octyl phthalate		13	U	13	310
Fluoranthene		33	U	33	310
Fluorene		17	U	17	310
Hexachlorobenzene		27	U	27	310
Hexachlorobutadiene		9.3	U	9.3	310
Hexachlorocyclopentadiene		46	U	46	310
Hexachloroethane		20	U	20	310
Indeno[1,2,3-cd]pyrene		20	U	20	310
Isophorone		16	U	16	310
2-Methylnaphthalene		18	U	18	310

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K408**

Lab Sample ID: 280-17794-3
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0745
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1644.D
Dilution:	1.0			Initial Weight/Volume:	32.3 g
Analysis Date:	07/12/2011 2113			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		12	U	12	310
3 & 4 Methylphenol		31	U	31	310
Naphthalene		29	U	29	310
2-Nitroaniline		46	U	46	310
3-Nitroaniline		68	U	68	310
4-Nitroaniline		67	U	67	310
Nitrobenzene		20	U	20	310
2-Nitrophenol		9.3	U	9.3	310
4-Nitrophenol		90	U	90	610
N-Nitrosodi-n-propylamine		29	U	29	310
N-Nitrosodiphenylamine		20	U	20	310
Pentachlorophenol		310	U	310	610
Phenanthrene		16	U	16	310
Phenol		17	U	17	310
Pyrene		11	U	11	310
1,2,4-Trichlorobenzene		26	U	26	310
2,4,5-Trichlorophenol		9.3	U	9.3	310
2,4,6-Trichlorophenol		9.3	U	9.3	310

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	87		50 - 120
2-Fluorophenol	86		53 - 120
Nitrobenzene-d5	88		50 - 120
Phenol-d5	87		52 - 120
Terphenyl-d14	97		55 - 120
2,4,6-Tribromophenol	96		51 - 120

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K408**

Lab Sample ID: 280-17794-3
Client Matrix: Solid % Moisture: 0.0

Date Sampled: 07/07/2011 0745
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1644.D
Dilution:	1.0			Initial Weight/Volume:	32.3 g
Analysis Date:	07/12/2011 2113			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.23	3800	J N
5717-37-3	(Carbethoxyethylidine)triphenylphosphora	11.04	890	N J

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K409**

Lab Sample ID: 280-17794-4
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0800
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1647.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Analysis Date:	07/12/2011 2215			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		52	J	10	320
Acenaphthylene		93	J	17	320
Anthracene		140	J	17	320
Benzo[a]anthracene		660		19	320
Benzo[a]pyrene		510		19	320
Benzo[b]fluoranthene		1800	K	25	320
Benzo[ghi]perylene		250	J	16	320
Benzo[k]fluoranthene		39	U K	39	320
Bis(2-chloroethoxy)methane		22	U	22	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		22	U	22	320
Bis(2-ethylhexyl) phthalate		45	U	45	320
4-Bromophenyl phenyl ether		18	U	18	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		120	J	35	320
4-Chloroaniline		80	U	80	320
4-Chloro-3-methylphenol		64	U	64	320
2-Chloronaphthalene		9.7	U	9.7	320
2-Chlorophenol		20	U	20	320
4-Chlorophenyl phenyl ether		20	U	20	320
Chrysene		1600		26	320
Dibenz(a,h)anthracene		18	U	18	320
Dibenzofuran		19	U	19	320
1,2-Dichlorobenzene		21	U	21	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		87	U	87	640
2,4-Dichlorophenol		9.7	U	9.7	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		64	U	64	320
Dimethyl phthalate		22	U	22	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	640
2,4-Dinitrophenol		320	U	320	800
2,4-Dinitrotoluene		64	U	64	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		3700		35	320
Fluorene		40	J	17	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.7	U	9.7	320
Hexachlorocyclopentadiene		49	U	49	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		270	J	21	320
Isophorone		17	U	17	320
2-Methylnaphthalene		18	U	18	320

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K409**

Lab Sample ID: 280-17794-4
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0800
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1647.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Analysis Date:	07/12/2011 2215			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		49	U	49	320
3-Nitroaniline		71	U	71	320
4-Nitroaniline		70	U	70	320
Nitrobenzene		21	U	21	320
2-Nitrophenol		9.7	U	9.7	320
4-Nitrophenol		94	U	94	640
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		20	U	20	320
Pentachlorophenol		320	U	320	640
Phenanthrene		570		17	320
Phenol		17	U	17	320
Pyrene		3600		12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.7	U	9.7	320
2,4,6-Trichlorophenol		9.7	U	9.7	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	82		50 - 120
2-Fluorophenol	81		53 - 120
Nitrobenzene-d5	81		50 - 120
Phenol-d5	83		52 - 120
Terphenyl-d14	89		55 - 120
2,4,6-Tribromophenol	92		51 - 120

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K409**

Lab Sample ID: 280-17794-4
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0800
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1647.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Analysis Date:	07/12/2011 2215			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **17**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.24	3600	N J
832-64-4	Phenanthrene, 4-methyl-	9.35	180	N J
	Unknown	9.44	460	N J
35465-71-5	2-Phenylnaphthalene	9.55	160	N J
84-65-1	9,10-Anthracenedione	9.59	430	N J
5737-13-3	Cyclopenta(def)phenanthrenone	9.84	280	N J
243-42-5	Benzo[b]naphtho[2,3-d]furan	10.04	260	N J
2381-21-7	Pyrene, 1-methyl-	10.22	140	N J
238-84-6	11H-Benzo[a]fluorene	10.31	250	N J
82-05-3	7H-Benz[de]anthracen-7-one	10.71	210	N J
	Unknown	10.79	180	N J
	Unknown	10.82	170	N J
	Unknown	10.84	210	N J
	Unknown	11.18	140	N J
	Unknown	11.75	190	N J
207-08-9	Benzo[k]fluoranthene	12.19	530	N J
207-08-9	Benzo[k]fluoranthene	12.24	460	N J

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K410**

Lab Sample ID: 280-17794-5
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0815
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1648.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Analysis Date:	07/12/2011 2235			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		17	U	17	320
Anthracene		17	U	17	320
Benzo[a]anthracene		19	U	19	320
Benzo[a]pyrene		19	U	19	320
Benzo[b]fluoranthene		25	U	25	320
Benzo[ghi]perylene		16	U	16	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		22	U	22	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		22	U	22	320
Bis(2-ethylhexyl) phthalate		75	J B	45	320
4-Bromophenyl phenyl ether		18	U	18	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		80	U	80	320
4-Chloro-3-methylphenol		64	U	64	320
2-Chloronaphthalene		9.7	U	9.7	320
2-Chlorophenol		20	U	20	320
4-Chlorophenyl phenyl ether		20	U	20	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		18	U	18	320
Dibenzofuran		19	U	19	320
1,2-Dichlorobenzene		21	U	21	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		87	U	87	640
2,4-Dichlorophenol		9.7	U	9.7	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		64	U	64	320
Dimethyl phthalate		22	U	22	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	640
2,4-Dinitrophenol		320	U	320	800
2,4-Dinitrotoluene		64	U	64	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		17	U	17	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.7	U	9.7	320
Hexachlorocyclopentadiene		49	U	49	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		21	U	21	320
Isophorone		17	U	17	320
2-Methylnaphthalene		18	U	18	320

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K410**

Lab Sample ID: 280-17794-5
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0815
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1648.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Analysis Date:	07/12/2011 2235			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		49	U	49	320
3-Nitroaniline		71	U	71	320
4-Nitroaniline		70	U	70	320
Nitrobenzene		21	U	21	320
2-Nitrophenol		9.7	U	9.7	320
4-Nitrophenol		94	U	94	640
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		20	U	20	320
Pentachlorophenol		320	U	320	640
Phenanthrene		17	U	17	320
Phenol		17	U	17	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.7	U	9.7	320
2,4,6-Trichlorophenol		9.7	U	9.7	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	84		50 - 120
2-Fluorophenol	85		53 - 120
Nitrobenzene-d5	87		50 - 120
Phenol-d5	88		52 - 120
Terphenyl-d14	96		55 - 120
2,4,6-Tribromophenol	97		51 - 120

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K410**

Lab Sample ID: 280-17794-5
Client Matrix: Solid % Moisture: 0.0

Date Sampled: 07/07/2011 0815
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1648.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Analysis Date:	07/12/2011 2235			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** 2

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.23	3800	N J
5717-37-3	(Carbethoxyethylidine)triphenylphosphora	11.03	980	N J

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K411**

Lab Sample ID: 280-17794-6
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0830
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1649.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	07/12/2011 2256			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		16	U	16	320
Anthracene		16	U	16	320
Benzo[a]anthracene		19	U	19	320
Benzo[a]pyrene		19	U	19	320
Benzo[b]fluoranthene		25	U	25	320
Benzo[ghi]perylene		15	U	15	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		22	U	22	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		22	U	22	320
Bis(2-ethylhexyl) phthalate		73	J B	45	320
4-Bromophenyl phenyl ether		18	U	18	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		79	U	79	320
4-Chloro-3-methylphenol		64	U	64	320
2-Chloronaphthalene		9.7	U	9.7	320
2-Chlorophenol		20	U	20	320
4-Chlorophenyl phenyl ether		20	U	20	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		18	U	18	320
Dibenzofuran		19	U	19	320
1,2-Dichlorobenzene		21	U	21	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		87	U	87	640
2,4-Dichlorophenol		9.7	U	9.7	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		64	U	64	320
Dimethyl phthalate		22	U	22	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	640
2,4-Dinitrophenol		320	U	320	800
2,4-Dinitrotoluene		64	U	64	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		17	U	17	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.7	U	9.7	320
Hexachlorocyclopentadiene		48	U	48	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		21	U	21	320
Isophorone		16	U	16	320
2-Methylnaphthalene		18	U	18	320

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K411**

Lab Sample ID: 280-17794-6
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0830
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1649.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	07/12/2011 2256			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		48	U	48	320
3-Nitroaniline		71	U	71	320
4-Nitroaniline		70	U	70	320
Nitrobenzene		21	U	21	320
2-Nitrophenol		9.7	U	9.7	320
4-Nitrophenol		94	U	94	640
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		20	U	20	320
Pentachlorophenol		320	U	320	640
Phenanthrene		16	U	16	320
Phenol		17	U	17	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.7	U	9.7	320
2,4,6-Trichlorophenol		9.7	U	9.7	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	76		50 - 120
2-Fluorophenol	77		53 - 120
Nitrobenzene-d5	79		50 - 120
Phenol-d5	77		52 - 120
Terphenyl-d14	90		55 - 120
2,4,6-Tribromophenol	86		51 - 120

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K411**

Lab Sample ID: 280-17794-6
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0830
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1649.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	07/12/2011 2256			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.24	3500	N J
5717-37-3	(Carbethoxyethylidine)triphenylphosphora	11.03	900	N J

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K412**

Lab Sample ID: 280-17794-7
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1650.D
Dilution:	1.0			Initial Weight/Volume:	32.0 g
Analysis Date:	07/12/2011 2317			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.7	U	9.7	310
Acenaphthylene		16	U	16	310
Anthracene		16	U	16	310
Benzo[a]anthracene		19	U	19	310
Benzo[a]pyrene		19	U	19	310
Benzo[b]fluoranthene		25	U	25	310
Benzo[ghi]perylene		15	U	15	310
Benzo[k]fluoranthene		38	U	38	310
Bis(2-chloroethoxy)methane		22	U	22	310
Bis(2-chloroethyl)ether		16	U	16	310
bis (2-chloroisopropyl) ether		22	U	22	310
Bis(2-ethylhexyl) phthalate		71	J B	43	310
4-Bromophenyl phenyl ether		18	U	18	310
Butyl benzyl phthalate		40	U	40	310
Carbazole		34	U	34	310
4-Chloroaniline		77	U	77	310
4-Chloro-3-methylphenol		62	U	62	310
2-Chloronaphthalene		9.4	U	9.4	310
2-Chlorophenol		20	U	20	310
4-Chlorophenyl phenyl ether		20	U	20	310
Chrysene		25	U	25	310
Dibenz(a,h)anthracene		18	U	18	310
Dibenzofuran		19	U	19	310
1,2-Dichlorobenzene		21	U	21	310
1,3-Dichlorobenzene		11	U	11	310
1,4-Dichlorobenzene		13	U	13	310
3,3'-Dichlorobenzidine		84	U	84	620
2,4-Dichlorophenol		9.4	U	9.4	310
Diethyl phthalate		24	U	24	310
2,4-Dimethylphenol		62	U	62	310
Dimethyl phthalate		22	U	22	310
Di-n-butyl phthalate		27	U	27	310
4,6-Dinitro-2-methylphenol		310	U	310	620
2,4-Dinitrophenol		310	U	310	770
2,4-Dinitrotoluene		62	U	62	310
2,6-Dinitrotoluene		26	U	26	310
Di-n-octyl phthalate		14	U	14	310
Fluoranthene		34	U	34	310
Fluorene		17	U	17	310
Hexachlorobenzene		27	U	27	310
Hexachlorobutadiene		9.4	U	9.4	310
Hexachlorocyclopentadiene		47	U	47	310
Hexachloroethane		20	U	20	310
Indeno[1,2,3-cd]pyrene		21	U	21	310
Isophorone		16	U	16	310
2-Methylnaphthalene		18	U	18	310

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K412**

Lab Sample ID: 280-17794-7
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1650.D
Dilution:	1.0			Initial Weight/Volume:	32.0 g
Analysis Date:	07/12/2011 2317			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		12	U	12	310
3 & 4 Methylphenol		31	U	31	310
Naphthalene		29	U	29	310
2-Nitroaniline		47	U	47	310
3-Nitroaniline		68	U	68	310
4-Nitroaniline		68	U	68	310
Nitrobenzene		21	U	21	310
2-Nitrophenol		9.4	U	9.4	310
4-Nitrophenol		91	U	91	620
N-Nitrosodi-n-propylamine		29	U	29	310
N-Nitrosodiphenylamine		20	U	20	310
Pentachlorophenol		310	U	310	620
Phenanthrene		16	U	16	310
Phenol		17	U	17	310
Pyrene		11	U	11	310
1,2,4-Trichlorobenzene		26	U	26	310
2,4,5-Trichlorophenol		9.4	U	9.4	310
2,4,6-Trichlorophenol		9.4	U	9.4	310

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	83		50 - 120
2-Fluorophenol	86		53 - 120
Nitrobenzene-d5	87		50 - 120
Phenol-d5	87		52 - 120
Terphenyl-d14	95		55 - 120
2,4,6-Tribromophenol	94		51 - 120

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K412**

Lab Sample ID: 280-17794-7
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1650.D
Dilution:	1.0			Initial Weight/Volume:	32.0 g
Analysis Date:	07/12/2011 2317			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **3**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.76	1300	N J
	Unknown	3.24	3600	N J
5717-37-3	(Carbethoxyethylidine)triphenylphosphora	11.03	810	N J

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K413**

Lab Sample ID: 280-17794-8
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0900
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1651.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Analysis Date:	07/12/2011 2337			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		76	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		82	U	82	330
4-Chloro-3-methylphenol		66	U	66	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		90	U	90	660
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		66	U	66	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	660
2,4-Dinitrophenol		330	U	330	830
2,4-Dinitrotoluene		66	U	66	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K413**

Lab Sample ID: 280-17794-8
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0900
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1651.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Analysis Date:	07/12/2011 2337			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		50	U	50	330
3-Nitroaniline		73	U	73	330
4-Nitroaniline		73	U	73	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		10	U	10	330
4-Nitrophenol		97	U	97	660
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	660
Phenanthrene		17	U	17	330
Phenol		18	U	18	330
Pyrene		12	U	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		10	U	10	330
2,4,6-Trichlorophenol		10	U	10	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	80		50 - 120
2-Fluorophenol	76		53 - 120
Nitrobenzene-d5	78		50 - 120
Phenol-d5	80		52 - 120
Terphenyl-d14	96		55 - 120
2,4,6-Tribromophenol	94		51 - 120

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K413**

Lab Sample ID: 280-17794-8
Client Matrix: Solid % Moisture: 0.0

Date Sampled: 07/07/2011 0900
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1651.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Analysis Date:	07/12/2011 2337			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.62	170	N J
	Unknown	3.24	3500	N J
5717-37-3	(Carbethoxyethylidine)triphenylphosphora	11.04	900	N J

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K414**

Lab Sample ID: 280-17794-9
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0915
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1652.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	07/12/2011 2358			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.9	U	9.9	320
Acenaphthylene		16	U	16	320
Anthracene		16	U	16	320
Benzo[a]anthracene		19	U	19	320
Benzo[a]pyrene		19	U	19	320
Benzo[b]fluoranthene		25	J K	25	320
Benzo[ghi]perylene		15	U	15	320
Benzo[k]fluoranthene		38	U K	38	320
Bis(2-chloroethoxy)methane		22	U	22	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		22	U	22	320
Bis(2-ethylhexyl) phthalate		75	J B	44	320
4-Bromophenyl phenyl ether		18	U	18	320
Butyl benzyl phthalate		41	U	41	320
Carbazole		35	U	35	320
4-Chloroaniline		79	U	79	320
4-Chloro-3-methylphenol		63	U	63	320
2-Chloronaphthalene		9.6	U	9.6	320
2-Chlorophenol		20	U	20	320
4-Chlorophenyl phenyl ether		20	U	20	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		18	U	18	320
Dibenzofuran		19	U	19	320
1,2-Dichlorobenzene		21	U	21	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		87	U	87	630
2,4-Dichlorophenol		9.6	U	9.6	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		63	U	63	320
Dimethyl phthalate		22	U	22	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	630
2,4-Dinitrophenol		320	U	320	790
2,4-Dinitrotoluene		63	U	63	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		36	J	35	320
Fluorene		17	U	17	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.6	U	9.6	320
Hexachlorocyclopentadiene		48	U	48	320
Hexachloroethane		20	U	20	320
Indeno[1,2,3-cd]pyrene		21	U	21	320
Isophorone		16	U	16	320
2-Methylnaphthalene		18	U	18	320

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K414**

Lab Sample ID: 280-17794-9
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0915
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1652.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	07/12/2011 2358			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		48	U	48	320
3-Nitroaniline		70	U	70	320
4-Nitroaniline		70	U	70	320
Nitrobenzene		21	U	21	320
2-Nitrophenol		9.6	U	9.6	320
4-Nitrophenol		93	U	93	630
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		20	U	20	320
Pentachlorophenol		320	U	320	630
Phenanthrene		26	J	16	320
Phenol		17	U	17	320
Pyrene		36	J	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.6	U	9.6	320
2,4,6-Trichlorophenol		9.6	U	9.6	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	84		50 - 120
2-Fluorophenol	85		53 - 120
Nitrobenzene-d5	86		50 - 120
Phenol-d5	88		52 - 120
Terphenyl-d14	101		55 - 120
2,4,6-Tribromophenol	103		51 - 120

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K414**

Lab Sample ID: 280-17794-9
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0915
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1652.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	07/12/2011 2358			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **2**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.23	3600	N J
544-76-3	Hexadecane	7.98	14	J N

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K415**

Lab Sample ID: 280-17794-10
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0930
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1653.D
Dilution:	1.0			Initial Weight/Volume:	31.5 g
Analysis Date:	07/13/2011 0018			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.8	U	9.8	310
Acenaphthylene		16	U	16	310
Anthracene		16	U	16	310
Benzo[a]anthracene		19	U	19	310
Benzo[a]pyrene		19	U	19	310
Benzo[b]fluoranthene		25	U	25	310
Benzo[ghi]perylene		15	U	15	310
Benzo[k]fluoranthene		38	U	38	310
Bis(2-chloroethoxy)methane		22	U	22	310
Bis(2-chloroethyl)ether		16	U	16	310
bis (2-chloroisopropyl) ether		22	U	22	310
Bis(2-ethylhexyl) phthalate		70	J B	44	310
4-Bromophenyl phenyl ether		18	U	18	310
Butyl benzyl phthalate		41	U	41	310
Carbazole		34	U	34	310
4-Chloroaniline		78	U	78	310
4-Chloro-3-methylphenol		63	U	63	310
2-Chloronaphthalene		9.5	U	9.5	310
2-Chlorophenol		20	U	20	310
4-Chlorophenyl phenyl ether		20	U	20	310
Chrysene		26	U	26	310
Dibenz(a,h)anthracene		18	U	18	310
Dibenzofuran		19	U	19	310
1,2-Dichlorobenzene		21	U	21	310
1,3-Dichlorobenzene		11	U	11	310
1,4-Dichlorobenzene		13	U	13	310
3,3'-Dichlorobenzidine		86	U	86	630
2,4-Dichlorophenol		9.5	U	9.5	310
Diethyl phthalate		25	U	25	310
2,4-Dimethylphenol		63	U	63	310
Dimethyl phthalate		22	U	22	310
Di-n-butyl phthalate		28	U	28	310
4,6-Dinitro-2-methylphenol		310	U	310	630
2,4-Dinitrophenol		320	U	320	790
2,4-Dinitrotoluene		63	U	63	310
2,6-Dinitrotoluene		27	U	27	310
Di-n-octyl phthalate		14	U	14	310
Fluoranthene		34	U	34	310
Fluorene		17	U	17	310
Hexachlorobenzene		28	U	28	310
Hexachlorobutadiene		9.5	U	9.5	310
Hexachlorocyclopentadiene		48	U	48	310
Hexachloroethane		20	U	20	310
Indeno[1,2,3-cd]pyrene		21	U	21	310
Isophorone		16	U	16	310
2-Methylnaphthalene		18	U	18	310

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K415**

Lab Sample ID: 280-17794-10
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0930
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1653.D
Dilution:	1.0			Initial Weight/Volume:	31.5 g
Analysis Date:	07/13/2011 0018			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		12	U	12	310
3 & 4 Methylphenol		31	U	31	310
Naphthalene		30	U	30	310
2-Nitroaniline		48	U	48	310
3-Nitroaniline		70	U	70	310
4-Nitroaniline		69	U	69	310
Nitrobenzene		21	U	21	310
2-Nitrophenol		9.5	U	9.5	310
4-Nitrophenol		92	U	92	630
N-Nitrosodi-n-propylamine		30	U	30	310
N-Nitrosodiphenylamine		20	U	20	310
Pentachlorophenol		310	U	310	630
Phenanthrene		16	U	16	310
Phenol		17	U	17	310
Pyrene		12	U	12	310
1,2,4-Trichlorobenzene		27	U	27	310
2,4,5-Trichlorophenol		9.5	U	9.5	310
2,4,6-Trichlorophenol		9.5	U	9.5	310

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	78		50 - 120
2-Fluorophenol	79		53 - 120
Nitrobenzene-d5	82		50 - 120
Phenol-d5	81		52 - 120
Terphenyl-d14	92		55 - 120
2,4,6-Tribromophenol	87		51 - 120

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K415**

Lab Sample ID: 280-17794-10
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0930
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1653.D
Dilution:	1.0			Initial Weight/Volume:	31.5 g
Analysis Date:	07/13/2011 0018			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.62	130	N J
	Unknown	3.23	3700	N J
791-28-6	Phosphine oxide, triphenyl-	11.03	890	N J

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K416**

Lab Sample ID: 280-17794-11
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 07/07/2011 0945
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1654.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	07/13/2011 0039			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		76	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		82	U	82	330
4-Chloro-3-methylphenol		66	U	66	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		90	U	90	660
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		66	U	66	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	660
2,4-Dinitrophenol		330	U	330	820
2,4-Dinitrotoluene		66	U	66	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		24	J	19	330

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K416**

Lab Sample ID: 280-17794-11
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 07/07/2011 0945
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1654.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	07/13/2011 0039			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		50	U	50	330
3-Nitroaniline		73	U	73	330
4-Nitroaniline		72	U	72	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		10	U	10	330
4-Nitrophenol		97	U	97	660
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	660
Phenanthrene		18	J	17	330
Phenol		18	U	18	330
Pyrene		16	J	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		10	U	10	330
2,4,6-Trichlorophenol		10	U	10	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	87		50 - 120
2-Fluorophenol	75		53 - 120
Nitrobenzene-d5	76		50 - 120
Phenol-d5	82		52 - 120
Terphenyl-d14	98		55 - 120
2,4,6-Tribromophenol	100		51 - 120

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K416**

Lab Sample ID: 280-17794-11
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 07/07/2011 0945
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1654.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	07/13/2011 0039			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **16**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.62	150	N J
	Unknown	3.23	3200	N J
90-12-0	1-Methylnaphthalene	6.78	22	J N
544-76-3	Hexadecane	7.98	36	J N
2131-42-2	Naphthalene, 1,4,6-trimethyl-	8.02	140	N J
483-78-3	Naphthalene, 1,6-dimethyl-4-(1-methyleth	8.44	300	N J
	Unknown	9.49	260	N J
	Unknown	9.62	160	N J
112-95-8	Eicosane	10.20	130	N J
112-95-8	Eicosane	10.45	210	N J
112-95-8	Eicosane	10.70	210	N J
5717-37-3	(Carbethoxyethylidine)triphenylphosphora	11.02	950	N J
112-95-8	Eicosane	11.17	220	N J
112-95-8	Eicosane	11.70	180	N J
	Unknown	13.44	170	N J
	Unknown	14.73	240	N J

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K417**

Lab Sample ID: 280-17794-12
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0955
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1655.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	07/13/2011 0100			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		88	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		82	U	82	330
4-Chloro-3-methylphenol		66	U	66	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		90	U	90	660
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		66	U	66	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	660
2,4-Dinitrophenol		330	U	330	820
2,4-Dinitrotoluene		66	U	66	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K417**

Lab Sample ID: 280-17794-12
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0955
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1655.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	07/13/2011 0100			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		50	U	50	330
3-Nitroaniline		73	U	73	330
4-Nitroaniline		72	U	72	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		10	U	10	330
4-Nitrophenol		97	U	97	660
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	660
Phenanthrene		17	U	17	330
Phenol		18	U	18	330
Pyrene		12	U	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		10	U	10	330
2,4,6-Trichlorophenol		10	U	10	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	89		50 - 120
2-Fluorophenol	89		53 - 120
Nitrobenzene-d5	89		50 - 120
Phenol-d5	92		52 - 120
Terphenyl-d14	103		55 - 120
2,4,6-Tribromophenol	107		51 - 120

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K417**

Lab Sample ID: 280-17794-12
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0955
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1655.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	07/13/2011 0100			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** 7

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.76	1200	N J
	Unknown	2.84	170	N J
	Unknown	3.24	3800	N J
544-76-3	Hexadecane	7.98	14	J N
	Unknown	9.50	190	N J
	Unknown	9.62	150	N J
5717-37-3	(Carbethoxyethylidine)triphenylphosphora	11.02	940	N J

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K418**

Lab Sample ID: 280-17794-13FD
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1656.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	07/13/2011 0120			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	330
Acenaphthylene		17	U	17	330
Anthracene		17	U	17	330
Benzo[a]anthracene		20	U	20	330
Benzo[a]pyrene		20	U	20	330
Benzo[b]fluoranthene		26	U	26	330
Benzo[ghi]perylene		16	U	16	330
Benzo[k]fluoranthene		40	U	40	330
Bis(2-chloroethoxy)methane		23	U	23	330
Bis(2-chloroethyl)ether		17	U	17	330
bis (2-chloroisopropyl) ether		23	U	23	330
Bis(2-ethylhexyl) phthalate		83	J B	46	330
4-Bromophenyl phenyl ether		19	U	19	330
Butyl benzyl phthalate		43	U	43	330
Carbazole		36	U	36	330
4-Chloroaniline		82	U	82	330
4-Chloro-3-methylphenol		66	U	66	330
2-Chloronaphthalene		10	U	10	330
2-Chlorophenol		21	U	21	330
4-Chlorophenyl phenyl ether		21	U	21	330
Chrysene		27	U	27	330
Dibenz(a,h)anthracene		19	U	19	330
Dibenzofuran		20	U	20	330
1,2-Dichlorobenzene		22	U	22	330
1,3-Dichlorobenzene		12	U	12	330
1,4-Dichlorobenzene		14	U	14	330
3,3'-Dichlorobenzidine		90	U	90	660
2,4-Dichlorophenol		10	U	10	330
Diethyl phthalate		26	U	26	330
2,4-Dimethylphenol		66	U	66	330
Dimethyl phthalate		23	U	23	330
Di-n-butyl phthalate		29	U	29	330
4,6-Dinitro-2-methylphenol		330	U	330	660
2,4-Dinitrophenol		330	U	330	820
2,4-Dinitrotoluene		66	U	66	330
2,6-Dinitrotoluene		28	U	28	330
Di-n-octyl phthalate		14	U	14	330
Fluoranthene		36	U	36	330
Fluorene		18	U	18	330
Hexachlorobenzene		29	U	29	330
Hexachlorobutadiene		10	U	10	330
Hexachlorocyclopentadiene		50	U	50	330
Hexachloroethane		21	U	21	330
Indeno[1,2,3-cd]pyrene		22	U	22	330
Isophorone		17	U	17	330
2-Methylnaphthalene		19	U	19	330

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K418**

Lab Sample ID: 280-17794-13FD
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1656.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	07/13/2011 0120			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	330
3 & 4 Methylphenol		33	U	33	330
Naphthalene		31	U	31	330
2-Nitroaniline		50	U	50	330
3-Nitroaniline		73	U	73	330
4-Nitroaniline		72	U	72	330
Nitrobenzene		22	U	22	330
2-Nitrophenol		10	U	10	330
4-Nitrophenol		97	U	97	660
N-Nitrosodi-n-propylamine		31	U	31	330
N-Nitrosodiphenylamine		21	U	21	330
Pentachlorophenol		330	U	330	660
Phenanthrene		17	U	17	330
Phenol		18	U	18	330
Pyrene		12	U	12	330
1,2,4-Trichlorobenzene		28	U	28	330
2,4,5-Trichlorophenol		10	U	10	330
2,4,6-Trichlorophenol		10	U	10	330

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	83		50 - 120
2-Fluorophenol	81		53 - 120
Nitrobenzene-d5	85		50 - 120
Phenol-d5	82		52 - 120
Terphenyl-d14	93		55 - 120
2,4,6-Tribromophenol	88		51 - 120

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K418**

Lab Sample ID: 280-17794-13FD
Client Matrix: Solid % Moisture: 0.2

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-75987	Lab File ID:	Y1656.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	07/13/2011 0120			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** 3

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.62	150	N J
	Unknown	3.24	3500	N J
791-28-6	Phosphine oxide, triphenyl-	11.03	940	N J

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K406**

Lab Sample ID: 280-17794-1
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0715
Date Received: 07/08/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-76779	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-75962	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	07/13/2011 1804			Injection Volume:	1 uL
Prep Date:	07/11/2011 1520			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.54	U	0.54	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.58	U	0.58	1.7
Aldrin		0.25	U	0.25	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.66	U	0.66	1.6
delta-BHC		0.40	U	0.40	1.6
gamma-BHC (Lindane)		0.46	U	0.46	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.42	U	0.42	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.28	U	0.28	1.7
Endosulfan sulfate		0.27	U	0.27	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.48	U	0.48	1.7
gamma-Chlordane		0.26	U	0.26	1.7
Methoxychlor		0.44	U	0.44	3.3
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	102		59 - 115
Decachlorobiphenyl	117		63 - 124

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K407**

Lab Sample ID: 280-17794-2
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0730
Date Received: 07/08/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-77040	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-75962	Initial Weight/Volume:	31.4 g
Dilution:	2.0			Final Weight/Volume:	10000 uL
Analysis Date:	07/15/2011 2045			Injection Volume:	1 uL
Prep Date:	07/11/2011 1520			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		1.0	U D	1.0	3.3
4,4'-DDE		0.46	U N D	0.46	3.3
4,4'-DDT		43	X D	1.1	3.3
Aldrin		0.48	U D	0.48	3.2
alpha-BHC		0.41	U D	0.41	3.2
beta-BHC		1.3	U D	1.3	3.2
delta-BHC		0.77	U D	0.77	3.2
gamma-BHC (Lindane)		0.89	U D	0.89	3.2
Heptachlor		0.41	U D	0.41	3.2
Heptachlor epoxide		4.0	X D	0.82	3.2
Endosulfan I		0.34	U D	0.34	3.2
Endosulfan II		0.55	U D	0.55	3.3
Endosulfan sulfate		0.53	U D	0.53	3.3
Endrin		0.59	U D	0.59	3.3
Endrin aldehyde		0.33	U N D	0.33	3.3
Endrin ketone		0.94	U D	0.94	3.3
gamma-Chlordane		0.51	U D	0.51	3.3
Methoxychlor		0.86	U D	0.86	6.3
alpha-Chlordane		0.62	U D	0.62	3.3
Dieldrin		0.40	U N D	0.40	3.3
Toxaphene		30	U D	30	320

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	108		59 - 115
Decachlorobiphenyl	116		63 - 124

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K408**

Lab Sample ID: 280-17794-3
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0745
Date Received: 07/08/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-76779	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-75962	Initial Weight/Volume:	31.3 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	07/13/2011 1910			Injection Volume:	1 uL
Prep Date:	07/11/2011 1520			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.52	U	0.52	1.6
4,4'-DDE		0.23	U	0.23	1.6
4,4'-DDT		0.57	U	0.57	1.6
Aldrin		0.24	U	0.24	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.64	U	0.64	1.6
delta-BHC		0.38	U	0.38	1.6
gamma-BHC (Lindane)		0.44	U	0.44	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.41	U	0.41	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.28	U	0.28	1.6
Endosulfan sulfate		0.26	U	0.26	1.6
Endrin		0.29	U	0.29	1.6
Endrin aldehyde		0.16	U	0.16	1.6
Endrin ketone		0.47	U	0.47	1.6
gamma-Chlordane		0.25	U	0.25	1.6
Methoxychlor		0.43	U	0.43	3.2
alpha-Chlordane		0.31	U	0.31	1.6
Dieldrin		0.20	U	0.20	1.6
Toxaphene		15	U	15	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	106		59 - 115
Decachlorobiphenyl	109		63 - 124

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K409**

Lab Sample ID: 280-17794-4
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0800
Date Received: 07/08/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-76779	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-75962	Initial Weight/Volume:	31.7 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	07/13/2011 1926			Injection Volume:	1 uL
Prep Date:	07/11/2011 1520			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.52	U	0.52	1.6
4,4'-DDE		0.23	U	0.23	1.6
4,4'-DDT		5.3		0.56	1.6
Aldrin		0.24	U	0.24	1.6
alpha-BHC		0.20	U	0.20	1.6
beta-BHC		0.63	U	0.63	1.6
delta-BHC		0.38	U	0.38	1.6
gamma-BHC (Lindane)		0.44	U	0.44	1.6
Heptachlor		0.20	U	0.20	1.6
Heptachlor epoxide		0.40	U	0.40	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.56	J X	0.27	1.6
Endosulfan sulfate		1.3	J X	0.26	1.6
Endrin		0.29	U	0.29	1.6
Endrin aldehyde		0.16	U	0.16	1.6
Endrin ketone		0.46	U	0.46	1.6
gamma-Chlordane		0.25	U	0.25	1.6
Methoxychlor		0.43	U	0.43	3.1
alpha-Chlordane		0.31	U	0.31	1.6
Dieldrin		0.20	U	0.20	1.6
Toxaphene		15	U	15	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	95		59 - 115
Decachlorobiphenyl	278	*	63 - 124

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K410**

Lab Sample ID: 280-17794-5
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0815
Date Received: 07/08/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-76779	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-75962	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	07/13/2011 1942			Injection Volume:	1 uL
Prep Date:	07/11/2011 1520			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.53	U	0.53	1.7
4,4'-DDE		0.23	U	0.23	1.7
4,4'-DDT		0.57	U	0.57	1.7
Aldrin		0.24	U	0.24	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.64	U	0.64	1.6
delta-BHC		0.39	U	0.39	1.6
gamma-BHC (Lindane)		0.45	U	0.45	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.41	U	0.41	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.28	U	0.28	1.7
Endosulfan sulfate		0.27	U	0.27	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.47	U	0.47	1.7
gamma-Chlordane		0.26	U	0.26	1.7
Methoxychlor		0.44	U	0.44	3.2
alpha-Chlordane		0.31	U	0.31	1.7
Dieldrin		0.20	U	0.20	1.7
Toxaphene		15	U	15	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	101		59 - 115
Decachlorobiphenyl	104		63 - 124

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K411**

Lab Sample ID: 280-17794-6
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0830
Date Received: 07/08/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-76779	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-75962	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	07/13/2011 1959			Injection Volume:	1 uL
Prep Date:	07/11/2011 1520			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.53	U	0.53	1.7
4,4'-DDE		0.23	U	0.23	1.7
4,4'-DDT		0.58	U	0.58	1.7
Aldrin		0.25	U	0.25	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.65	U	0.65	1.6
delta-BHC		0.39	U	0.39	1.6
gamma-BHC (Lindane)		0.45	U	0.45	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.42	U	0.42	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.28	U	0.28	1.7
Endosulfan sulfate		0.27	U	0.27	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.48	U	0.48	1.7
gamma-Chlordane		0.26	U	0.26	1.7
Methoxychlor		0.44	U	0.44	3.2
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		15	U	15	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	103		59 - 115
Decachlorobiphenyl	108		63 - 124

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K412**

Lab Sample ID: 280-17794-7
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-76779	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-75962	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	07/13/2011 2121			Injection Volume:	1 uL
Prep Date:	07/11/2011 1520			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.53	U	0.53	1.7
4,4'-DDE		0.23	U	0.23	1.7
4,4'-DDT		0.58	U	0.58	1.7
Aldrin		0.24	U	0.24	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.65	U	0.65	1.6
delta-BHC		0.39	U	0.39	1.6
gamma-BHC (Lindane)		0.45	U	0.45	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.42	U	0.42	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.28	U	0.28	1.7
Endosulfan sulfate		0.27	U	0.27	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.48	U	0.48	1.7
gamma-Chlordane		0.26	U	0.26	1.7
Methoxychlor		0.44	U	0.44	3.2
alpha-Chlordane		0.31	U	0.31	1.7
Dieldrin		0.20	U	0.20	1.7
Toxaphene		15	U	15	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	99		59 - 115
Decachlorobiphenyl	111		63 - 124

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K413**

Lab Sample ID: 280-17794-8
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0900
Date Received: 07/08/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-76779	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-75962	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	07/13/2011 2138			Injection Volume:	1 uL
Prep Date:	07/11/2011 1520			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.53	U	0.53	1.7
4,4'-DDE		0.23	U	0.23	1.7
4,4'-DDT		0.57	U	0.57	1.7
Aldrin		0.24	U	0.24	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.65	U	0.65	1.6
delta-BHC		0.39	U	0.39	1.6
gamma-BHC (Lindane)		0.45	U	0.45	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.41	U	0.41	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.28	U	0.28	1.7
Endosulfan sulfate		0.27	U	0.27	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.48	U	0.48	1.7
gamma-Chlordane		0.26	U	0.26	1.7
Methoxychlor		0.44	U	0.44	3.2
alpha-Chlordane		0.31	U	0.31	1.7
Dieldrin		0.20	U	0.20	1.7
Toxaphene		15	U	15	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	105		59 - 115
Decachlorobiphenyl	108		63 - 124

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K414**

Lab Sample ID: 280-17794-9
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0915
Date Received: 07/08/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-76779	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-75962	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	07/13/2011 2154			Injection Volume:	1 uL
Prep Date:	07/11/2011 1520			Result Type:	PRIMARY

Analyte DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD	0.54	U	0.54	1.7
4,4'-DDE	0.23	U	0.23	1.7
4,4'-DDT	0.93	J	0.58	1.7
Aldrin	0.25	U	0.25	1.6
alpha-BHC	0.21	U	0.21	1.6
beta-BHC	0.66	U	0.66	1.6
delta-BHC	0.40	U	0.40	1.6
gamma-BHC (Lindane)	0.46	U	0.46	1.6
Heptachlor	0.21	U	0.21	1.6
Heptachlor epoxide	0.42	U	0.42	1.6
Endosulfan I	0.17	U	0.17	1.6
Endosulfan II	0.28	U	0.28	1.7
Endosulfan sulfate	0.27	U	0.27	1.7
Endrin	0.30	U	0.30	1.7
Endrin aldehyde	0.17	U	0.17	1.7
Endrin ketone	0.48	U	0.48	1.7
gamma-Chlordane	0.26	U	0.26	1.7
Methoxychlor	0.44	U	0.44	3.3
alpha-Chlordane	0.32	U	0.32	1.7
Dieldrin	0.21	U	0.21	1.7
Toxaphene	16	U	16	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	101		59 - 115
Decachlorobiphenyl	106		63 - 124

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K415**

Lab Sample ID: 280-17794-10
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0930
Date Received: 07/08/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-76779	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-75962	Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	07/13/2011 2211			Injection Volume:	1 uL
Prep Date:	07/11/2011 1520			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.54	U	0.54	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.58	U	0.58	1.7
Aldrin		0.25	U	0.25	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.66	U	0.66	1.6
delta-BHC		0.40	U	0.40	1.6
gamma-BHC (Lindane)		0.46	U	0.46	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.42	U	0.42	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.28	U	0.28	1.7
Endosulfan sulfate		0.27	U	0.27	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.48	U	0.48	1.7
gamma-Chlordane		0.26	U	0.26	1.7
Methoxychlor		0.45	U	0.45	3.3
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	100		59 - 115
Decachlorobiphenyl	102		63 - 124

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K416**

Lab Sample ID: 280-17794-11
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 07/07/2011 0945
Date Received: 07/08/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-76779	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-75962	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	07/13/2011 2227			Injection Volume:	1 uL
Prep Date:	07/11/2011 1520			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.53	U	0.53	1.7
4,4'-DDE		0.23	U	0.23	1.7
4,4'-DDT		0.64	J	0.58	1.7
Aldrin		0.25	U	0.25	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.65	U	0.65	1.6
delta-BHC		0.39	U	0.39	1.6
gamma-BHC (Lindane)		0.45	U	0.45	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.42	U	0.42	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.28	U	0.28	1.7
Endosulfan sulfate		0.27	U	0.27	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.48	U	0.48	1.7
gamma-Chlordane		0.26	U	0.26	1.7
Methoxychlor		0.44	U	0.44	3.2
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		15	U	15	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	98		59 - 115
Decachlorobiphenyl	98		63 - 124

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K417**

Lab Sample ID: 280-17794-12
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0955
Date Received: 07/08/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-76779	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-75962	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	07/13/2011 2244			Injection Volume:	1 uL
Prep Date:	07/11/2011 1520			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.53	U	0.53	1.7
4,4'-DDE		0.23	U	0.23	1.7
4,4'-DDT		0.57	U	0.57	1.7
Aldrin		0.24	U	0.24	1.6
alpha-BHC		0.21	U	0.21	1.6
beta-BHC		0.65	U	0.65	1.6
delta-BHC		0.39	U	0.39	1.6
gamma-BHC (Lindane)		0.45	U	0.45	1.6
Heptachlor		0.21	U	0.21	1.6
Heptachlor epoxide		0.41	U	0.41	1.6
Endosulfan I		0.17	U	0.17	1.6
Endosulfan II		0.28	U	0.28	1.7
Endosulfan sulfate		0.27	U	0.27	1.7
Endrin		0.30	U	0.30	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.48	U	0.48	1.7
gamma-Chlordane		0.26	U	0.26	1.7
Methoxychlor		0.44	U	0.44	3.2
alpha-Chlordane		0.31	U	0.31	1.7
Dieldrin		0.20	U	0.20	1.7
Toxaphene		15	U	15	160

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	99		59 - 115
Decachlorobiphenyl	105		63 - 124

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K418**

Lab Sample ID: 280-17794-13FD
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

8081A Organochlorine Pesticides (GC)

Analysis Method:	8081A	Analysis Batch:	280-76779	Instrument ID:	GCS_P2
Prep Method:	3550C	Prep Batch:	280-75962	Initial Weight/Volume:	30.0 g
Dilution:	1.0			Final Weight/Volume:	10000 uL
Analysis Date:	07/13/2011 2300			Injection Volume:	1 uL
Prep Date:	07/11/2011 1520			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
4,4'-DDD		0.55	U	0.55	1.7
4,4'-DDE		0.24	U	0.24	1.7
4,4'-DDT		0.59	U	0.59	1.7
Aldrin		0.25	U	0.25	1.7
alpha-BHC		0.21	U	0.21	1.7
beta-BHC		0.67	U	0.67	1.7
delta-BHC		0.40	U	0.40	1.7
gamma-BHC (Lindane)		0.46	U	0.46	1.7
Heptachlor		0.21	U	0.21	1.7
Heptachlor epoxide		0.43	U	0.43	1.7
Endosulfan I		0.18	U	0.18	1.7
Endosulfan II		0.29	U	0.29	1.7
Endosulfan sulfate		0.28	U	0.28	1.7
Endrin		0.31	U	0.31	1.7
Endrin aldehyde		0.17	U	0.17	1.7
Endrin ketone		0.49	U	0.49	1.7
gamma-Chlordane		0.27	U	0.27	1.7
Methoxychlor		0.45	U	0.45	3.3
alpha-Chlordane		0.32	U	0.32	1.7
Dieldrin		0.21	U	0.21	1.7
Toxaphene		16	U	16	170

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	104		59 - 115
Decachlorobiphenyl	111		63 - 124

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K406**

Lab Sample ID: 280-17794-1
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0715
Date Received: 07/08/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-77104	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-75806	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	07/14/2011 1450			Injection Volume:	1 uL
Prep Date:	07/09/2011 1148			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.8
Aroclor 1221		7.9	U	7.9	16
Aroclor 1232		2.0	U	2.0	9.8
Aroclor 1242		4.6	U	4.6	9.8
Aroclor 1248		4.6	U	4.6	9.8
Aroclor 1254		2.6	U	2.6	9.8
Aroclor 1260		14		2.6	9.8

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	80		59 - 130
Tetrachloro-m-xylene	93		53 - 128

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K407**

Lab Sample ID: 280-17794-2
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0730
Date Received: 07/08/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-77110	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-75806	Initial Weight/Volume:	30.7 g
Dilution:	20			Final Weight/Volume:	5000 uL
Analysis Date:	07/15/2011 1123			Injection Volume:	1 uL
Prep Date:	07/09/2011 1148			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		54	U D	54	200
Aroclor 1221		160	U D	160	320
Aroclor 1232		39	U D	39	200
Aroclor 1242		91	U D	91	200
Aroclor 1248		91	U D	91	200
Aroclor 1254		51	U D	51	200
Aroclor 1260		2000	D	51	200

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	90	D	59 - 130
Tetrachloro-m-xylene	48	D	53 - 128

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K408**

Lab Sample ID: 280-17794-3
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0745
Date Received: 07/08/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-77104	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-75806	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	07/14/2011 1616			Injection Volume:	1 uL
Prep Date:	07/09/2011 1148			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.6
Aroclor 1221		7.7	U	7.7	16
Aroclor 1232		1.9	U	1.9	9.6
Aroclor 1242		4.5	U	4.5	9.6
Aroclor 1248		4.5	U	4.5	9.6
Aroclor 1254		2.5	U	2.5	9.6
Aroclor 1260		27		2.5	9.6

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	94		59 - 130
Tetrachloro-m-xylene	87		53 - 128

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K409**

Lab Sample ID: 280-17794-4
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0800
Date Received: 07/08/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-77104	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-75806	Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	07/14/2011 1659			Injection Volume:	1 uL
Prep Date:	07/09/2011 1148			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.6
Aroclor 1221		7.7	U	7.7	16
Aroclor 1232		1.9	U	1.9	9.6
Aroclor 1242		4.5	U	4.5	9.6
Aroclor 1248		4.5	U	4.5	9.6
Aroclor 1254		2.5	U	2.5	9.6
Aroclor 1260		31		2.5	9.6

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	87		59 - 130
Tetrachloro-m-xylene	82		53 - 128

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K410**

Lab Sample ID: 280-17794-5
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0815
Date Received: 07/08/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-77104	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-75806	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	07/14/2011 1720			Injection Volume:	1 uL
Prep Date:	07/09/2011 1148			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.9
Aroclor 1221		7.9	U	7.9	16
Aroclor 1232		2.0	U	2.0	9.9
Aroclor 1242		4.6	U	4.6	9.9
Aroclor 1248		4.6	U	4.6	9.9
Aroclor 1254		2.6	U	2.6	9.9
Aroclor 1260		2.6	U	2.6	9.9

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	93		59 - 130
Tetrachloro-m-xylene	87		53 - 128

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K411**

Lab Sample ID: 280-17794-6
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0830
Date Received: 07/08/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-77104	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-75806	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	07/14/2011 1742			Injection Volume:	1 uL
Prep Date:	07/09/2011 1148			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.8
Aroclor 1221		7.8	U	7.8	16
Aroclor 1232		2.0	U	2.0	9.8
Aroclor 1242		4.6	U	4.6	9.8
Aroclor 1248		4.6	U	4.6	9.8
Aroclor 1254		2.5	U	2.5	9.8
Aroclor 1260		2.5	U	2.5	9.8

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	94		59 - 130
Tetrachloro-m-xylene	99		53 - 128

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K412**

Lab Sample ID: 280-17794-7
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-77104	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-75806	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	07/14/2011 1803			Injection Volume:	1 uL
Prep Date:	07/09/2011 1148			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.7
Aroclor 1221		7.8	U	7.8	16
Aroclor 1232		1.9	U	1.9	9.7
Aroclor 1242		4.5	U	4.5	9.7
Aroclor 1248		4.5	U	4.5	9.7
Aroclor 1254		2.5	U	2.5	9.7
Aroclor 1260		2.5	U	2.5	9.7

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	99		59 - 130
Tetrachloro-m-xylene	92		53 - 128

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K413**

Lab Sample ID: 280-17794-8
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0900
Date Received: 07/08/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-77104	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-75806	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	07/14/2011 1824			Injection Volume:	1 uL
Prep Date:	07/09/2011 1148			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.6
Aroclor 1221		7.7	U	7.7	16
Aroclor 1232		1.9	U	1.9	9.6
Aroclor 1242		4.5	U	4.5	9.6
Aroclor 1248		4.5	U	4.5	9.6
Aroclor 1254		2.5	U	2.5	9.6
Aroclor 1260		16		2.5	9.6

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	88		59 - 130
Tetrachloro-m-xylene	90		53 - 128

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K414**

Lab Sample ID: 280-17794-9
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0915
Date Received: 07/08/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-77107	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-75806	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	07/14/2011 1907			Injection Volume:	1 uL
Prep Date:	07/09/2011 1148			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.6
Aroclor 1221		7.7	U	7.7	16
Aroclor 1232		1.9	U	1.9	9.6
Aroclor 1242		4.5	U	4.5	9.6
Aroclor 1248		4.5	U	4.5	9.6
Aroclor 1254		2.5	U	2.5	9.6
Aroclor 1260		3.9	J P	2.5	9.6

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	76		59 - 130
Tetrachloro-m-xylene	91		53 - 128

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K415**

Lab Sample ID: 280-17794-10
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0930
Date Received: 07/08/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-77104	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-75806	Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	07/14/2011 1907			Injection Volume:	1 uL
Prep Date:	07/09/2011 1148			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.9
Aroclor 1221		7.9	U	7.9	16
Aroclor 1232		2.0	U	2.0	9.9
Aroclor 1242		4.6	U	4.6	9.9
Aroclor 1248		4.6	U	4.6	9.9
Aroclor 1254		2.6	U	2.6	9.9
Aroclor 1260		2.6	U	2.6	9.9

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	93		59 - 130
Tetrachloro-m-xylene	92		53 - 128

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K416**

Lab Sample ID: 280-17794-11
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 07/07/2011 0945
Date Received: 07/08/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-77107	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-75806	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	07/14/2011 1950			Injection Volume:	1 uL
Prep Date:	07/09/2011 1148			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.8
Aroclor 1221		7.9	U	7.9	16
Aroclor 1232		2.0	U	2.0	9.8
Aroclor 1242		4.6	U	4.6	9.8
Aroclor 1248		4.6	U	4.6	9.8
Aroclor 1254		2.5	U	2.5	9.8
Aroclor 1260		3.9	J P	2.5	9.8

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	75		59 - 130
Tetrachloro-m-xylene	86		53 - 128

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K417**

Lab Sample ID: 280-17794-12
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0955
Date Received: 07/08/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-77104	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-75806	Initial Weight/Volume:	31.6 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	07/14/2011 1950			Injection Volume:	1 uL
Prep Date:	07/09/2011 1148			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.6	U	2.6	9.5
Aroclor 1221		7.6	U	7.6	16
Aroclor 1232		1.9	U	1.9	9.5
Aroclor 1242		4.4	U	4.4	9.5
Aroclor 1248		4.4	U	4.4	9.5
Aroclor 1254		2.5	U	2.5	9.5
Aroclor 1260		12		2.5	9.5

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	83		59 - 130
Tetrachloro-m-xylene	91		53 - 128

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K418**

Lab Sample ID: 280-17794-13FD
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-77104	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-75806	Initial Weight/Volume:	30.9 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	07/14/2011 2011			Injection Volume:	1 uL
Prep Date:	07/09/2011 1148			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.7
Aroclor 1221		7.8	U	7.8	16
Aroclor 1232		1.9	U	1.9	9.7
Aroclor 1242		4.5	U	4.5	9.7
Aroclor 1248		4.5	U	4.5	9.7
Aroclor 1254		2.5	U	2.5	9.7
Aroclor 1260		2.5	U	2.5	9.7

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	93		59 - 130
Tetrachloro-m-xylene	93		53 - 128

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K406**

Lab Sample ID: 280-17794-1
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0715
Date Received: 07/08/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-77290	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-75945	Lab File ID:	007F0701.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Analysis Date:	07/18/2011 1302			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 1140			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		5400		970	3900
C10-C28		1700	J B	660	3900

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	103		49 - 115

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K407**

Lab Sample ID: 280-17794-2
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0730
Date Received: 07/08/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-77290	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-75945	Lab File ID:	010F1001.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Analysis Date:	07/18/2011 1444			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 1140			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		20000		990	4000
C10-C28		9200	B	670	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	90		49 - 115

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K408**

Lab Sample ID: 280-17794-3
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0745
Date Received: 07/08/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-77290	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-75945	Lab File ID:	011F1101.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	07/18/2011 1518			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 1140			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1500	J	990	4000
C10-C28		710	J B	680	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	102		49 - 115

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K409**

Lab Sample ID: 280-17794-4
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0800
Date Received: 07/08/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-77290	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-75945	Lab File ID:	012F1201.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	07/18/2011 1553			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 1140			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		75000		940	3800
C10-C28		63000	B	640	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	120	*	49 - 115

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K410**

Lab Sample ID: 280-17794-5
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0815
Date Received: 07/08/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-77290	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-75945	Lab File ID:	013F1301.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Analysis Date:	07/18/2011 1627			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 1140			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		970	U	970	3900
C10-C28		660	U	660	3900

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	99		49 - 115

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K411**

Lab Sample ID: 280-17794-6
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0830
Date Received: 07/08/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-77290	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-75945	Lab File ID:	014F1401.D
Dilution:	1.0			Initial Weight/Volume:	31.3 g
Analysis Date:	07/18/2011 1702			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 1140			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1300	J	960	3800
C10-C28		840	J B	650	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	98		49 - 115

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K412**

Lab Sample ID: 280-17794-7
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-77290	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-75945	Lab File ID:	016F1601.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	07/18/2011 1810			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 1140			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		990	U	990	4000
C10-C28		670	U	670	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	98		49 - 115

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K413**

Lab Sample ID: 280-17794-8
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0900
Date Received: 07/08/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-77290	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-75945	Lab File ID:	017F1701.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	07/18/2011 1844			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 1140			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		7600		960	3900
C10-C28		2500	J B	650	3900

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	112		49 - 115

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K414**

Lab Sample ID: 280-17794-9
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0915
Date Received: 07/08/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-77290	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-75945	Lab File ID:	018F1801.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	07/18/2011 1918			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 1140			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		38000		940	3800
C10-C28		14000	B	640	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	96		49 - 115

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K415**

Lab Sample ID: 280-17794-10
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0930
Date Received: 07/08/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-77290	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-75945	Lab File ID:	019F1901.D
Dilution:	1.0			Initial Weight/Volume:	31.4 g
Analysis Date:	07/18/2011 1951			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 1140			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1000	J	950	3800
C10-C28		650	U	650	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	96		49 - 115

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K416**

Lab Sample ID: 280-17794-11
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 07/07/2011 0945
Date Received: 07/08/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-77290	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-75945	Lab File ID:	020F2001.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	07/18/2011 2025			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 1140			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		48000		950	3800
C10-C28		22000	B	650	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	94		49 - 115

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K417**

Lab Sample ID: 280-17794-12
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0955
Date Received: 07/08/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-77290	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-75945	Lab File ID:	021F2101.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	07/18/2011 2059			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 1140			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		8700		950	3800
C10-C28		3300	J B	640	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	107		49 - 115

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K418**

Lab Sample ID: 280-17794-13FD
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

NWTPH-Dx Northwest - Semi-Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-77290	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-75945	Lab File ID:	022F2201.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	07/18/2011 2133			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 1140			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		970	U	970	3900
C10-C28		660	U	660	3900

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	101		49 - 115

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K406**

Lab Sample ID: 280-17794-1
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0715
Date Received: 07/08/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-77008	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-75874	Lab File ID:	25A1071511.asc
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Analysis Date:	07/15/2011 1309			Final Weight/Volume:	100 mL
Prep Date:	07/14/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6510		1.4	4.4
Antimony		0.33	U	0.33	0.53
Arsenic		2.3		0.58	0.88
Barium		47.8		0.067	0.44
Beryllium		0.14	B	0.029	0.18
Boron		1.3	B	0.86	1.8
Cadmium		0.043	B M	0.036	0.18
Calcium		5910		12.4	43.9
Chromium		11.1		0.051	0.18
Cobalt		5.7		0.088	0.88
Copper		11.9		0.19	0.88
Iron		15500		3.3	4.4
Lead		3.7		0.24	0.44
Magnesium		4010		3.3	17.6
Manganese		248		0.088	0.88
Molybdenum		0.23	U	0.23	1.8
Nickel		11.5		0.11	3.5
Potassium		920		36.0	264
Selenium		0.76	U	0.76	0.88
Silicon		346	N	5.0	8.8
Silver		0.14	U	0.14	0.18
Sodium		197		51.9	105
Vanadium		37.0		0.083	1.8
Zinc		32.3		0.35	0.88

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-77004	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-75885	Lab File ID:	110715TA.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	07/15/2011 2103			Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1435				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.018		0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K407**

Lab Sample ID: 280-17794-2
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0730
Date Received: 07/08/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-77008	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-75874	Lab File ID:	25A1071511.asc
Dilution:	1.0			Initial Weight/Volume:	1.19 g
Analysis Date:	07/15/2011 1318			Final Weight/Volume:	100 mL
Prep Date:	07/14/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7500		1.3	4.2
Antimony		0.32	U	0.32	0.51
Arsenic		2.8		0.56	0.84
Barium		101		0.064	0.42
Beryllium		0.18		0.028	0.17
Boron		5.1		0.83	1.7
Cadmium		0.10	B	0.035	0.17
Calcium		5570		11.9	42.1
Chromium		10.8		0.049	0.17
Cobalt		6.1		0.084	0.84
Copper		14.4		0.18	0.84
Iron		15900		3.2	4.2
Lead		7.3		0.23	0.42
Magnesium		4260		3.1	16.8
Manganese		269		0.084	0.84
Molybdenum		0.22	U	0.22	1.7
Nickel		11.8		0.10	3.4
Potassium		1170		34.5	253
Selenium		0.72	U	0.72	0.84
Silicon		344		4.8	8.4
Silver		0.13	U	0.13	0.17
Sodium		261		49.7	101
Vanadium		38.0		0.079	1.7
Zinc		39.5		0.34	0.84

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-77004	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-75885	Lab File ID:	110715TA.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	07/15/2011 2106			Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1435				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.031		0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K408**

Lab Sample ID: 280-17794-3
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0745
Date Received: 07/08/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-77008	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-75874	Lab File ID:	25A1071511.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	07/15/2011 1321			Final Weight/Volume:	100 mL
Prep Date:	07/14/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6000		1.4	4.6
Antimony		0.35	U	0.35	0.56
Arsenic		2.1		0.61	0.93
Barium		38.4		0.070	0.46
Beryllium		0.11	B	0.031	0.19
Boron		1.1	B	0.91	1.9
Cadmium		0.056	B	0.038	0.19
Calcium		5320		13.1	46.3
Chromium		10.2		0.054	0.19
Cobalt		5.1		0.093	0.93
Copper		12.2		0.20	0.93
Iron		13500		3.5	4.6
Lead		2.9		0.25	0.46
Magnesium		4050		3.4	18.5
Manganese		226		0.093	0.93
Molybdenum		0.24	U	0.24	1.9
Nickel		10		0.11	3.7
Potassium		744		38.0	278
Selenium		0.80	U	0.80	0.93
Silicon		260		5.2	9.3
Silver		0.15	U	0.15	0.19
Sodium		186		54.6	111
Vanadium		34.6		0.087	1.9
Zinc		30.2		0.37	0.93

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-77004	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-75885	Lab File ID:	110715TA.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	07/15/2011 2108			Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1435				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0053	B	0.0049	0.015

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K409**

Lab Sample ID: 280-17794-4
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0800
Date Received: 07/08/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-77008	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-75874	Lab File ID:	25A1071511.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	07/15/2011 1323			Final Weight/Volume:	100 mL
Prep Date:	07/14/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5820		1.5	4.9
Antimony		0.37	U	0.37	0.58
Arsenic		1.9		0.64	0.97
Barium		41.5		0.074	0.49
Beryllium		0.11	B	0.032	0.19
Boron		1.4	B	0.95	1.9
Cadmium		0.064	B	0.040	0.19
Calcium		7780		13.7	48.5
Chromium		11.9		0.056	0.19
Cobalt		5.7		0.097	0.97
Copper		11.9		0.21	0.97
Iron		14600		3.7	4.9
Lead		3.1		0.26	0.49
Magnesium		4360		3.6	19.4
Manganese		238		0.097	0.97
Molybdenum		0.25	U	0.25	1.9
Nickel		11.6		0.12	3.9
Potassium		659		39.8	291
Selenium		0.83	U	0.83	0.97
Silicon		220		5.5	9.7
Silver		0.16	U	0.16	0.19
Sodium		179		57.3	117
Vanadium		38.4		0.091	1.9
Zinc		29.8		0.39	0.97

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-77004	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-75885	Lab File ID:	110715TA.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	07/15/2011 2110			Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1435				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0049	U	0.0049	0.015

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K410**

Lab Sample ID: 280-17794-5
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0815
Date Received: 07/08/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-77008	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-75874	Lab File ID:	25A1071511.asc
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Analysis Date:	07/15/2011 1334			Final Weight/Volume:	100 mL
Prep Date:	07/14/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5620		1.3	4.3
Antimony		0.33	U	0.33	0.52
Arsenic		2.2		0.57	0.86
Barium		32.9		0.066	0.43
Beryllium		0.088	B	0.028	0.17
Boron		0.84	U	0.84	1.7
Cadmium		0.052	B	0.035	0.17
Calcium		7730		12.2	43.1
Chromium		10.4		0.050	0.17
Cobalt		5.6		0.086	0.86
Copper		11.9		0.19	0.86
Iron		14200		3.3	4.3
Lead		2.9		0.23	0.43
Magnesium		4160		3.2	17.2
Manganese		226		0.086	0.86
Molybdenum		0.22	U	0.22	1.7
Nickel		11.2		0.11	3.4
Potassium		637		35.3	259
Selenium		0.74	U	0.74	0.86
Silicon		188		4.9	8.6
Silver		0.14	U	0.14	0.17
Sodium		183		50.9	103
Vanadium		38.2		0.081	1.7
Zinc		29.5		0.34	0.86

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-77004	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-75885	Lab File ID:	110715TA.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	07/15/2011 2122			Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1435				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0051	U	0.0051	0.016

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K411**

Lab Sample ID: 280-17794-6
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0830
Date Received: 07/08/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-77008	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-75874	Lab File ID:	25A1071511.asc
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	07/15/2011 1336			Final Weight/Volume:	100 mL
Prep Date:	07/14/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5840		1.5	5.0
Antimony		0.38	U	0.38	0.59
Arsenic		1.8		0.65	0.99
Barium		36.3		0.075	0.50
Beryllium		0.098	B	0.033	0.20
Boron		0.97	U	0.97	2.0
Cadmium		0.053	B	0.041	0.20
Calcium		6810		14.0	49.5
Chromium		10.5		0.057	0.20
Cobalt		5.4		0.099	0.99
Copper		14.7		0.21	0.99
Iron		13800		3.8	5.0
Lead		2.8		0.27	0.50
Magnesium		4240		3.7	19.8
Manganese		237		0.099	0.99
Molybdenum		0.26	U	0.26	2.0
Nickel		11.0		0.12	4.0
Potassium		719		40.6	297
Selenium		0.85	U	0.85	0.99
Silicon		203		5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		180		58.5	119
Vanadium		35.3		0.093	2.0
Zinc		30.0		0.39	0.99

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-77004	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-75885	Lab File ID:	110715TA.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	07/15/2011 2124			Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1435				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0052	B	0.0050	0.015

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K412**

Lab Sample ID: 280-17794-7
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-77008	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-75874	Lab File ID:	25A1071511.asc
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	07/15/2011 1338			Final Weight/Volume:	100 mL
Prep Date:	07/14/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5560		1.3	4.4
Antimony		0.33	U	0.33	0.52
Arsenic		1.4		0.57	0.87
Barium		37.9		0.066	0.44
Beryllium		0.090	B	0.029	0.17
Boron		0.85	U	0.85	1.7
Cadmium		0.066	B	0.036	0.17
Calcium		6740		12.3	43.5
Chromium		9.9		0.050	0.17
Cobalt		5.1		0.087	0.87
Copper		11.3		0.19	0.87
Iron		12600		3.3	4.4
Lead		2.4		0.23	0.44
Magnesium		4060		3.2	17.4
Manganese		224		0.087	0.87
Molybdenum		0.23	U	0.23	1.7
Nickel		9.3		0.11	3.5
Potassium		610		35.7	261
Selenium		0.75	U	0.75	0.87
Silicon		180		4.9	8.7
Silver		0.14	U	0.14	0.17
Sodium		164		51.3	104
Vanadium		33.2		0.082	1.7
Zinc		28.1		0.35	0.87

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-77004	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-75885	Lab File ID:	110715TA.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	07/15/2011 2126			Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1435				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0053	U	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K413**

Lab Sample ID: 280-17794-8
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0900
Date Received: 07/08/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-77008	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-75874	Lab File ID:	25A1071511.asc
Dilution:	1.0			Initial Weight/Volume:	1.15 g
Analysis Date:	07/15/2011 1341			Final Weight/Volume:	100 mL
Prep Date:	07/14/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5930		1.3	4.3
Antimony		0.33	U	0.33	0.52
Arsenic		1.6		0.57	0.87
Barium		38.5		0.066	0.43
Beryllium		0.11	B	0.029	0.17
Boron		1.1	B	0.85	1.7
Cadmium		0.054	B	0.036	0.17
Calcium		5850		12.3	43.5
Chromium		11.4		0.050	0.17
Cobalt		5.1		0.087	0.87
Copper		11.6		0.19	0.87
Iron		13200		3.3	4.3
Lead		2.6		0.23	0.43
Magnesium		4240		3.2	17.4
Manganese		235		0.087	0.87
Molybdenum		0.23	U	0.23	1.7
Nickel		10.3		0.11	3.5
Potassium		682		35.7	261
Selenium		0.75	U	0.75	0.87
Silicon		222		4.9	8.7
Silver		0.14	U	0.14	0.17
Sodium		169		51.3	104
Vanadium		33.6		0.082	1.7
Zinc		30.0		0.35	0.87

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-77004	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-75885	Lab File ID:	110715TA.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	07/15/2011 2129			Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1435				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0053	U	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K414**

Lab Sample ID: 280-17794-9
Client Matrix: Solid
% Moisture: 0.0

Date Sampled: 07/07/2011 0915
Date Received: 07/08/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-77008	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-75874	Lab File ID:	25A1071511.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Analysis Date:	07/15/2011 1343			Final Weight/Volume:	100 mL
Prep Date:	07/14/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6680		1.4	4.6
Antimony		0.35	U	0.35	0.56
Arsenic		2.2		0.61	0.93
Barium		61.4		0.070	0.46
Beryllium		0.14	B	0.031	0.19
Boron		2.5		0.91	1.9
Cadmium		0.19		0.038	0.19
Calcium		6280		13.1	46.3
Chromium		9.9		0.054	0.19
Cobalt		5.9		0.093	0.93
Copper		13.1		0.20	0.93
Iron		14200		3.5	4.6
Lead		8.0		0.25	0.46
Magnesium		4010		3.4	18.5
Manganese		233		0.093	0.93
Molybdenum		0.24	U	0.24	1.9
Nickel		10.7		0.11	3.7
Potassium		1030		38.0	278
Selenium		0.80	U	0.80	0.93
Silicon		377		5.2	9.3
Silver		0.15	U	0.15	0.19
Sodium		306		54.6	111
Vanadium		34.4		0.087	1.9
Zinc		69.0		0.37	0.93

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-77004	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-75885	Lab File ID:	110715TA.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	07/15/2011 2131			Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1435				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.028		0.0050	0.015

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K415**

Lab Sample ID: 280-17794-10
Client Matrix: Solid
% Moisture: 0.1

Date Sampled: 07/07/2011 0930
Date Received: 07/08/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-77008	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-75874	Lab File ID:	25A1071511.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	07/15/2011 1345			Final Weight/Volume:	100 mL
Prep Date:	07/14/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5890		1.5	4.7
Antimony		0.36	U	0.36	0.57
Arsenic		1.9		0.62	0.94
Barium		37.9		0.072	0.47
Beryllium		0.11	B	0.031	0.19
Boron		1.1	B	0.93	1.9
Cadmium		0.040	B	0.039	0.19
Calcium		4380		13.3	47.2
Chromium		11.1		0.055	0.19
Cobalt		5.2		0.094	0.94
Copper		12.0		0.20	0.94
Iron		13500		3.6	4.7
Lead		2.7		0.25	0.47
Magnesium		4130		3.5	18.9
Manganese		233		0.094	0.94
Molybdenum		0.25	U	0.25	1.9
Nickel		10.7		0.12	3.8
Potassium		644		38.7	283
Selenium		0.81	U	0.81	0.94
Silicon		204		5.3	9.4
Silver		0.15	U	0.15	0.19
Sodium		179		55.7	113
Vanadium		33.9		0.089	1.9
Zinc		29.6		0.38	0.94

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-77004	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-75885	Lab File ID:	110715TA.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	07/15/2011 2133			Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1435				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0053	U	0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K416**

Lab Sample ID: 280-17794-11
Client Matrix: Solid
% Moisture: 1.2

Date Sampled: 07/07/2011 0945
Date Received: 07/08/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-77008	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-75874	Lab File ID:	25A1071511.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	07/15/2011 1347			Final Weight/Volume:	100 mL
Prep Date:	07/14/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6430		1.5	4.8
Antimony		0.36	U	0.36	0.57
Arsenic		2.0		0.63	0.95
Barium		69.1		0.073	0.48
Beryllium		0.16	B	0.032	0.19
Boron		3.3		0.94	1.9
Cadmium		0.077	B	0.039	0.19
Calcium		5980		13.5	47.7
Chromium		10.1		0.055	0.19
Cobalt		5.4		0.095	0.95
Copper		12.4		0.21	0.95
Iron		13500		3.6	4.8
Lead		4.3		0.26	0.48
Magnesium		3940		3.5	19.1
Manganese		232		0.095	0.95
Molybdenum		0.25	U	0.25	1.9
Nickel		10.0		0.12	3.8
Potassium		896		39.1	286
Selenium		0.82	U	0.82	0.95
Silicon		432		5.4	9.5
Silver		0.15	U	0.15	0.19
Sodium		230		56.3	115
Vanadium		34.6		0.090	1.9
Zinc		31.3		0.38	0.95

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-77004	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-75885	Lab File ID:	110715TA.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	07/15/2011 2136			Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1435				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.011	B	0.0050	0.015

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K417**

Lab Sample ID: 280-17794-12
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0955
Date Received: 07/08/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-77008	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-75874	Lab File ID:	25A1071511.asc
Dilution:	1.0			Initial Weight/Volume:	1.14 g
Analysis Date:	07/15/2011 1350			Final Weight/Volume:	100 mL
Prep Date:	07/14/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7670		1.4	4.4
Antimony		0.33	U	0.33	0.53
Arsenic		2.7		0.58	0.88
Barium		67.1		0.067	0.44
Beryllium		0.15	B	0.029	0.18
Boron		1.6	B	0.86	1.8
Cadmium		0.059	B	0.036	0.18
Calcium		4900		12.4	43.9
Chromium		9.7		0.051	0.18
Cobalt		6.8		0.088	0.88
Copper		14.2		0.19	0.88
Iron		16500		3.3	4.4
Lead		4.6		0.24	0.44
Magnesium		4020		3.3	17.6
Manganese		255		0.088	0.88
Molybdenum		0.23	U	0.23	1.8
Nickel		10.2		0.11	3.5
Potassium		1150		36.0	264
Selenium		0.76	U	0.76	0.88
Silicon		394		5.0	8.8
Silver		0.14	U	0.14	0.18
Sodium		214		51.9	105
Vanadium		38.5		0.083	1.8
Zinc		35.2		0.35	0.88

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-77004	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-75885	Lab File ID:	110715TA.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	07/15/2011 2138			Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1435				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0051	U	0.0051	0.016

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Client Sample ID: **J1K418**

Lab Sample ID: 280-17794-13FD
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-77008	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-75874	Lab File ID:	25A1071511.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	07/15/2011 1352			Final Weight/Volume:	100 mL
Prep Date:	07/14/2011 1500				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5500		1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		2.0		0.59	0.89
Barium		39.2		0.068	0.45
Beryllium		0.088	B	0.030	0.18
Boron		0.88	U	0.88	1.8
Cadmium		0.062	B	0.037	0.18
Calcium		6740		12.6	44.7
Chromium		10.1		0.052	0.18
Cobalt		4.8		0.089	0.89
Copper		10.8		0.19	0.89
Iron		12400		3.4	4.5
Lead		2.4		0.24	0.45
Magnesium		4130		3.3	17.9
Manganese		223		0.089	0.89
Molybdenum		0.23	U	0.23	1.8
Nickel		9.5		0.11	3.6
Potassium		607		36.7	268
Selenium		0.77	U	0.77	0.89
Silicon		153		5.1	8.9
Silver		0.14	U	0.14	0.18
Sodium		160		52.8	107
Vanadium		32.0		0.084	1.8
Zinc		27.9		0.36	0.89

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-77004	Instrument ID:	MT_034
Prep Method:	7471A	Prep Batch:	280-75885	Lab File ID:	110715TA.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	07/15/2011 2140			Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1435				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0049	U	0.0049	0.015

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

General Chemistry

Client Sample ID: **J1K406**

Lab Sample ID: 280-17794-1
Client Matrix: Solid

Date Sampled: 07/07/2011 0715
Date Received: 07/08/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.20		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-76150 Analysis Date: 07/12/2011 0950 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

General Chemistry

Client Sample ID: **J1K407**

Lab Sample ID: 280-17794-2
Client Matrix: Solid

Date Sampled: 07/07/2011 0730
Date Received: 07/08/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.20		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-76150 Analysis Date: 07/12/2011 0950 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

General Chemistry

Client Sample ID: **J1K408**

Lab Sample ID: 280-17794-3
Client Matrix: Solid

Date Sampled: 07/07/2011 0745
Date Received: 07/08/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.10	U	%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-76150 Analysis Date: 07/12/2011 0950 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

General Chemistry

Client Sample ID: **J1K409**

Lab Sample ID: 280-17794-4
Client Matrix: Solid

Date Sampled: 07/07/2011 0800
Date Received: 07/08/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.10	U	%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-76150 Analysis Date: 07/12/2011 0950 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

General Chemistry

Client Sample ID: **J1K410**

Lab Sample ID: 280-17794-5
Client Matrix: Solid

Date Sampled: 07/07/2011 0815
Date Received: 07/08/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.10	U	%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-76150 Analysis Date: 07/12/2011 0950 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1K411**

Lab Sample ID: 280-17794-6
Client Matrix: Solid

Date Sampled: 07/07/2011 0830
Date Received: 07/08/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.10	U	%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-76150 Analysis Date: 07/12/2011 0950 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

General Chemistry

Client Sample ID: **J1K412**

Lab Sample ID: 280-17794-7
Client Matrix: Solid

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.10	U	%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-76150 Analysis Date: 07/12/2011 0950 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1K413**

Lab Sample ID: 280-17794-8
Client Matrix: Solid

Date Sampled: 07/07/2011 0900
Date Received: 07/08/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.10	U	%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-76150 Analysis Date: 07/12/2011 0950 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1K414**

Lab Sample ID: 280-17794-9
Client Matrix: Solid

Date Sampled: 07/07/2011 0915
Date Received: 07/08/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.10	U	%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-76150 Analysis Date: 07/12/2011 0950 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

General Chemistry

Client Sample ID: **J1K415**

Lab Sample ID: 280-17794-10
Client Matrix: Solid

Date Sampled: 07/07/2011 0930
Date Received: 07/08/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.10	U	%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-76150 Analysis Date: 07/12/2011 0950 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

General Chemistry

Client Sample ID: **J1K416**

Lab Sample ID: 280-17794-11
Client Matrix: Solid

Date Sampled: 07/07/2011 0945
Date Received: 07/08/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	1.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-76150 Analysis Date: 07/12/2011 0950 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

General Chemistry

Client Sample ID: **J1K417**

Lab Sample ID: 280-17794-12
Client Matrix: Solid

Date Sampled: 07/07/2011 0955
Date Received: 07/08/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.19		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-76150 Analysis Date: 07/12/2011 0950 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

General Chemistry

Client Sample ID: **J1K418**

Lab Sample ID: 280-17794-13FD
Client Matrix: Solid

Date Sampled: 07/07/2011 0845
Date Received: 07/08/2011 0900

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.18		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-76150 Analysis Date: 07/12/2011 0950 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 280-76252					
LCS 280-76252/2-A	Lab Control Sample	T	Solid	5035	
MB 280-76252/1-A	Method Blank	T	Solid	5035	
280-17794-1	J1K406	T	Solid	5035	
280-17794-1MS	Matrix Spike	T	Solid	5035	
280-17794-1MSD	Matrix Spike Duplicate	T	Solid	5035	
280-17794-2	J1K407	T	Solid	5035	
280-17794-3	J1K408	T	Solid	5035	
280-17794-4	J1K409	T	Solid	5035	
280-17794-5	J1K410	T	Solid	5035	
280-17794-6	J1K411	T	Solid	5035	
280-17794-7	J1K412	T	Solid	5035	
280-17794-8	J1K413	T	Solid	5035	
280-17794-9	J1K414	T	Solid	5035	
280-17794-9MS	Matrix Spike	T	Solid	5035	
280-17794-9MSD	Matrix Spike Duplicate	T	Solid	5035	
280-17794-10	J1K415	T	Solid	5035	
280-17794-11	J1K416	T	Solid	5035	
280-17794-12	J1K417	T	Solid	5035	
280-17794-13FD	J1K418	T	Solid	5035	
Analysis Batch:280-76476					
LCS 280-76252/2-A	Lab Control Sample	T	Solid	8260B	280-76252
280-17794-7	J1K412	T	Solid	8260B	280-76252
280-17794-8	J1K413	T	Solid	8260B	280-76252
280-17794-9	J1K414	T	Solid	8260B	280-76252
280-17794-9MS	Matrix Spike	T	Solid	8260B	280-76252
280-17794-9MSD	Matrix Spike Duplicate	T	Solid	8260B	280-76252
280-17794-10	J1K415	T	Solid	8260B	280-76252
280-17794-11	J1K416	T	Solid	8260B	280-76252
280-17794-12	J1K417	T	Solid	8260B	280-76252
280-17794-13FD	J1K418	T	Solid	8260B	280-76252
Analysis Batch:280-76618					
LCS 280-76252/2-A	Lab Control Sample	T	Solid	8260B	280-76252
MB 280-76252/1-A	Method Blank	T	Solid	8260B	280-76252
280-17794-1	J1K406	T	Solid	8260B	280-76252
280-17794-1MS	Matrix Spike	T	Solid	8260B	280-76252
280-17794-1MSD	Matrix Spike Duplicate	T	Solid	8260B	280-76252
280-17794-2	J1K407	T	Solid	8260B	280-76252
280-17794-3	J1K408	T	Solid	8260B	280-76252
280-17794-4	J1K409	T	Solid	8260B	280-76252
280-17794-5	J1K410	T	Solid	8260B	280-76252
280-17794-6	J1K411	T	Solid	8260B	280-76252

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Report Basis					
T = Total					
GC/MS Semi VOA					
Prep Batch: 280-75987					
LCS 280-75987/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-75987/1-A	Method Blank	T	Solid	3550C	
280-17794-1	J1K406	T	Solid	3550C	
280-17794-2	J1K407	T	Solid	3550C	
280-17794-3	J1K408	T	Solid	3550C	
280-17794-3MS	Matrix Spike	T	Solid	3550C	
280-17794-3MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-17794-4	J1K409	T	Solid	3550C	
280-17794-5	J1K410	T	Solid	3550C	
280-17794-6	J1K411	T	Solid	3550C	
280-17794-7	J1K412	T	Solid	3550C	
280-17794-8	J1K413	T	Solid	3550C	
280-17794-9	J1K414	T	Solid	3550C	
280-17794-10	J1K415	T	Solid	3550C	
280-17794-11	J1K416	T	Solid	3550C	
280-17794-12	J1K417	T	Solid	3550C	
280-17794-13FD	J1K418	T	Solid	3550C	
Analysis Batch:280-76473					
LCS 280-75987/2-A	Lab Control Sample	T	Solid	8270C	280-75987
MB 280-75987/1-A	Method Blank	T	Solid	8270C	280-75987
280-17794-1	J1K406	T	Solid	8270C	280-75987
280-17794-2	J1K407	T	Solid	8270C	280-75987
280-17794-3	J1K408	T	Solid	8270C	280-75987
280-17794-3MS	Matrix Spike	T	Solid	8270C	280-75987
280-17794-3MSD	Matrix Spike Duplicate	T	Solid	8270C	280-75987
280-17794-4	J1K409	T	Solid	8270C	280-75987
280-17794-5	J1K410	T	Solid	8270C	280-75987
280-17794-6	J1K411	T	Solid	8270C	280-75987
280-17794-7	J1K412	T	Solid	8270C	280-75987
280-17794-8	J1K413	T	Solid	8270C	280-75987
280-17794-9	J1K414	T	Solid	8270C	280-75987
280-17794-10	J1K415	T	Solid	8270C	280-75987
280-17794-11	J1K416	T	Solid	8270C	280-75987
280-17794-12	J1K417	T	Solid	8270C	280-75987
280-17794-13FD	J1K418	T	Solid	8270C	280-75987

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-75806					
LCS 280-75806/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-75806/1-A	Method Blank	T	Solid	3550C	
280-17794-1	J1K406	T	Solid	3550C	
280-17794-1MS	Matrix Spike	T	Solid	3550C	
280-17794-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-17794-2	J1K407	T	Solid	3550C	
280-17794-3	J1K408	T	Solid	3550C	
280-17794-4	J1K409	T	Solid	3550C	
280-17794-5	J1K410	T	Solid	3550C	
280-17794-6	J1K411	T	Solid	3550C	
280-17794-7	J1K412	T	Solid	3550C	
280-17794-8	J1K413	T	Solid	3550C	
280-17794-9	J1K414	T	Solid	3550C	
280-17794-10	J1K415	T	Solid	3550C	
280-17794-11	J1K416	T	Solid	3550C	
280-17794-12	J1K417	T	Solid	3550C	
280-17794-13FD	J1K418	T	Solid	3550C	
Prep Batch: 280-75945					
LCS 280-75945/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 280-75945/18-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 280-75945/1-A	Method Blank	T	Solid	3550C	
280-17794-1	J1K406	T	Solid	3550C	
280-17794-1MS	Matrix Spike	T	Solid	3550C	
280-17794-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-17794-2	J1K407	T	Solid	3550C	
280-17794-3	J1K408	T	Solid	3550C	
280-17794-4	J1K409	T	Solid	3550C	
280-17794-5	J1K410	T	Solid	3550C	
280-17794-6	J1K411	T	Solid	3550C	
280-17794-7	J1K412	T	Solid	3550C	
280-17794-8	J1K413	T	Solid	3550C	
280-17794-9	J1K414	T	Solid	3550C	
280-17794-10	J1K415	T	Solid	3550C	
280-17794-11	J1K416	T	Solid	3550C	
280-17794-12	J1K417	T	Solid	3550C	
280-17794-13FD	J1K418	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-75962					
LCS 280-75962/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-75962/1-A	Method Blank	T	Solid	3550C	
280-17794-1	J1K406	T	Solid	3550C	
280-17794-2	J1K407	T	Solid	3550C	
280-17794-2MS	Matrix Spike	T	Solid	3550C	
280-17794-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-17794-3	J1K408	T	Solid	3550C	
280-17794-4	J1K409	T	Solid	3550C	
280-17794-5	J1K410	T	Solid	3550C	
280-17794-6	J1K411	T	Solid	3550C	
280-17794-7	J1K412	T	Solid	3550C	
280-17794-8	J1K413	T	Solid	3550C	
280-17794-9	J1K414	T	Solid	3550C	
280-17794-10	J1K415	T	Solid	3550C	
280-17794-11	J1K416	T	Solid	3550C	
280-17794-12	J1K417	T	Solid	3550C	
280-17794-13FD	J1K418	T	Solid	3550C	
Analysis Batch:280-76779					
LCS 280-75962/2-A	Lab Control Sample	T	Solid	8081A	280-75962
MB 280-75962/1-A	Method Blank	T	Solid	8081A	280-75962
280-17794-1	J1K406	T	Solid	8081A	280-75962
280-17794-3	J1K408	T	Solid	8081A	280-75962
280-17794-4	J1K409	T	Solid	8081A	280-75962
280-17794-5	J1K410	T	Solid	8081A	280-75962
280-17794-6	J1K411	T	Solid	8081A	280-75962
280-17794-7	J1K412	T	Solid	8081A	280-75962
280-17794-8	J1K413	T	Solid	8081A	280-75962
280-17794-9	J1K414	T	Solid	8081A	280-75962
280-17794-10	J1K415	T	Solid	8081A	280-75962
280-17794-11	J1K416	T	Solid	8081A	280-75962
280-17794-12	J1K417	T	Solid	8081A	280-75962
280-17794-13FD	J1K418	T	Solid	8081A	280-75962
Analysis Batch:280-77040					
280-17794-2	J1K407	T	Solid	8081A	280-75962
280-17794-2MS	Matrix Spike	T	Solid	8081A	280-75962
280-17794-2MSD	Matrix Spike Duplicate	T	Solid	8081A	280-75962

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-77104					
LCS 280-75806/2-A	Lab Control Sample	T	Solid	8082	280-75806
MB 280-75806/1-A	Method Blank	T	Solid	8082	280-75806
280-17794-1	J1K406	T	Solid	8082	280-75806
280-17794-1MS	Matrix Spike	T	Solid	8082	280-75806
280-17794-1MSD	Matrix Spike Duplicate	T	Solid	8082	280-75806
280-17794-3	J1K408	T	Solid	8082	280-75806
280-17794-4	J1K409	T	Solid	8082	280-75806
280-17794-5	J1K410	T	Solid	8082	280-75806
280-17794-6	J1K411	T	Solid	8082	280-75806
280-17794-7	J1K412	T	Solid	8082	280-75806
280-17794-8	J1K413	T	Solid	8082	280-75806
280-17794-9	J1K414	T	Solid	8082	280-75806
280-17794-10	J1K415	T	Solid	8082	280-75806
280-17794-11	J1K416	T	Solid	8082	280-75806
280-17794-12	J1K417	T	Solid	8082	280-75806
280-17794-13FD	J1K418	T	Solid	8082	280-75806
Analysis Batch:280-77107					
LCS 280-75806/2-A	Lab Control Sample	T	Solid	8082	280-75806
MB 280-75806/1-A	Method Blank	T	Solid	8082	280-75806
280-17794-1	J1K406	T	Solid	8082	280-75806
280-17794-1MS	Matrix Spike	T	Solid	8082	280-75806
280-17794-1MSD	Matrix Spike Duplicate	T	Solid	8082	280-75806
280-17794-3	J1K408	T	Solid	8082	280-75806
280-17794-4	J1K409	T	Solid	8082	280-75806
280-17794-8	J1K413	T	Solid	8082	280-75806
280-17794-9	J1K414	T	Solid	8082	280-75806
280-17794-11	J1K416	T	Solid	8082	280-75806
280-17794-12	J1K417	T	Solid	8082	280-75806
Analysis Batch:280-77108					
280-17794-2	J1K407	T	Solid	8082	280-75806
Analysis Batch:280-77110					
280-17794-2	J1K407	T	Solid	8082	280-75806

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-77290					
LCS 280-75945/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-75945
LCSD 280-75945/18-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Dx	280-75945
MB 280-75945/1-A	Method Blank	T	Solid	NWTPH-Dx	280-75945
280-17794-1	J1K406	T	Solid	NWTPH-Dx	280-75945
280-17794-1MS	Matrix Spike	T	Solid	NWTPH-Dx	280-75945
280-17794-1MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-75945
280-17794-2	J1K407	T	Solid	NWTPH-Dx	280-75945
280-17794-3	J1K408	T	Solid	NWTPH-Dx	280-75945
280-17794-4	J1K409	T	Solid	NWTPH-Dx	280-75945
280-17794-5	J1K410	T	Solid	NWTPH-Dx	280-75945
280-17794-6	J1K411	T	Solid	NWTPH-Dx	280-75945
280-17794-7	J1K412	T	Solid	NWTPH-Dx	280-75945
280-17794-8	J1K413	T	Solid	NWTPH-Dx	280-75945
280-17794-9	J1K414	T	Solid	NWTPH-Dx	280-75945
280-17794-10	J1K415	T	Solid	NWTPH-Dx	280-75945
280-17794-11	J1K416	T	Solid	NWTPH-Dx	280-75945
280-17794-12	J1K417	T	Solid	NWTPH-Dx	280-75945
280-17794-13FD	J1K418	T	Solid	NWTPH-Dx	280-75945

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-75874					
LCS 280-75874/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-75874/1-A	Method Blank	T	Solid	3050B	
280-17794-1	J1K406	T	Solid	3050B	
280-17794-1DU	Duplicate	T	Solid	3050B	
280-17794-1MS	Matrix Spike	T	Solid	3050B	
280-17794-2	J1K407	T	Solid	3050B	
280-17794-3	J1K408	T	Solid	3050B	
280-17794-4	J1K409	T	Solid	3050B	
280-17794-5	J1K410	T	Solid	3050B	
280-17794-6	J1K411	T	Solid	3050B	
280-17794-7	J1K412	T	Solid	3050B	
280-17794-8	J1K413	T	Solid	3050B	
280-17794-9	J1K414	T	Solid	3050B	
280-17794-10	J1K415	T	Solid	3050B	
280-17794-11	J1K416	T	Solid	3050B	
280-17794-12	J1K417	T	Solid	3050B	
280-17794-13FD	J1K418	T	Solid	3050B	
Prep Batch: 280-75885					
LCS 280-75885/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-75885/1-A	Method Blank	T	Solid	7471A	
280-17794-1	J1K406	T	Solid	7471A	
280-17794-2	J1K407	T	Solid	7471A	
280-17794-3	J1K408	T	Solid	7471A	
280-17794-4	J1K409	T	Solid	7471A	
280-17794-4DU	Duplicate	T	Solid	7471A	
280-17794-4MS	Matrix Spike	T	Solid	7471A	
280-17794-5	J1K410	T	Solid	7471A	
280-17794-6	J1K411	T	Solid	7471A	
280-17794-7	J1K412	T	Solid	7471A	
280-17794-8	J1K413	T	Solid	7471A	
280-17794-9	J1K414	T	Solid	7471A	
280-17794-10	J1K415	T	Solid	7471A	
280-17794-11	J1K416	T	Solid	7471A	
280-17794-12	J1K417	T	Solid	7471A	
280-17794-13FD	J1K418	T	Solid	7471A	

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-77004					
LCS 280-75885/2-A	Lab Control Sample	T	Solid	7471A	280-75885
MB 280-75885/1-A	Method Blank	T	Solid	7471A	280-75885
280-17794-1	J1K406	T	Solid	7471A	280-75885
280-17794-2	J1K407	T	Solid	7471A	280-75885
280-17794-3	J1K408	T	Solid	7471A	280-75885
280-17794-4	J1K409	T	Solid	7471A	280-75885
280-17794-4DU	Duplicate	T	Solid	7471A	280-75885
280-17794-4MS	Matrix Spike	T	Solid	7471A	280-75885
280-17794-5	J1K410	T	Solid	7471A	280-75885
280-17794-6	J1K411	T	Solid	7471A	280-75885
280-17794-7	J1K412	T	Solid	7471A	280-75885
280-17794-8	J1K413	T	Solid	7471A	280-75885
280-17794-9	J1K414	T	Solid	7471A	280-75885
280-17794-10	J1K415	T	Solid	7471A	280-75885
280-17794-11	J1K416	T	Solid	7471A	280-75885
280-17794-12	J1K417	T	Solid	7471A	280-75885
280-17794-13FD	J1K418	T	Solid	7471A	280-75885
Analysis Batch:280-77008					
LCS 280-75874/2-A	Lab Control Sample	T	Solid	6010B	280-75874
MB 280-75874/1-A	Method Blank	T	Solid	6010B	280-75874
280-17794-1	J1K406	T	Solid	6010B	280-75874
280-17794-1DU	Duplicate	T	Solid	6010B	280-75874
280-17794-1MS	Matrix Spike	T	Solid	6010B	280-75874
280-17794-2	J1K407	T	Solid	6010B	280-75874
280-17794-3	J1K408	T	Solid	6010B	280-75874
280-17794-4	J1K409	T	Solid	6010B	280-75874
280-17794-5	J1K410	T	Solid	6010B	280-75874
280-17794-6	J1K411	T	Solid	6010B	280-75874
280-17794-7	J1K412	T	Solid	6010B	280-75874
280-17794-8	J1K413	T	Solid	6010B	280-75874
280-17794-9	J1K414	T	Solid	6010B	280-75874
280-17794-10	J1K415	T	Solid	6010B	280-75874
280-17794-11	J1K416	T	Solid	6010B	280-75874
280-17794-12	J1K417	T	Solid	6010B	280-75874
280-17794-13FD	J1K418	T	Solid	6010B	280-75874

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-76150					
280-17794-1	J1K406	T	Solid	D-2216	
280-17794-1DU	Duplicate	T	Solid	D-2216	
280-17794-2	J1K407	T	Solid	D-2216	
280-17794-3	J1K408	T	Solid	D-2216	
280-17794-4	J1K409	T	Solid	D-2216	
280-17794-5	J1K410	T	Solid	D-2216	
280-17794-6	J1K411	T	Solid	D-2216	
280-17794-7	J1K412	T	Solid	D-2216	
280-17794-8	J1K413	T	Solid	D-2216	
280-17794-9	J1K414	T	Solid	D-2216	
280-17794-10	J1K415	T	Solid	D-2216	
280-17794-11	J1K416	T	Solid	D-2216	
280-17794-12	J1K417	T	Solid	D-2216	
280-17794-13FD	J1K418	T	Solid	D-2216	

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Method Blank - Batch: 280-76252

Method: 8260B
Preparation: 5035

Lab Sample ID:	MB 280-76252/1-A	Analysis Batch:	280-76618	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-76252	Lab File ID:	J7936.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.01 g
Analysis Date:	07/12/2011 0922	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acetone	5.4	U	5.4	20
Benzene	0.47	U	0.47	5.0
Bromodichloromethane	0.22	U	0.22	5.0
Bromoform	0.23	U	0.23	5.0
Bromomethane	0.50	U	0.50	10
2-Butanone (MEK)	1.8	U	1.8	10
Carbon disulfide	0.42	U	0.42	5.0
Carbon tetrachloride	0.63	U	0.63	5.0
Chlorobenzene	0.54	U	0.54	5.0
Dibromochloromethane	0.57	U	0.57	5.0
Chloroethane	0.89	U	0.89	10
Chloroform	0.29	U	0.29	5.0
Chloromethane	0.77	U	0.77	10
1,3-Dichlorobenzene	0.48	U	0.48	5.0
1,1-Dichloroethane	0.21	U	0.21	5.0
1,2-Dichloroethane	0.70	U	0.70	5.0
trans-1,2-Dichloroethene	0.39	U	0.39	2.5
1,1-Dichloroethene	0.59	U	0.59	5.0
1,2-Dichloroethene, Total	0.39	U	0.39	5.0
1,2-Dichloropropane	0.55	U	0.55	5.0
cis-1,3-Dichloropropene	1.3	U	1.3	5.0
trans-1,3-Dichloropropene	0.67	U	0.67	5.0
Ethylbenzene	0.67	U	0.67	5.0
2-Hexanone	4.9	U	4.9	20
Methylene Chloride	1.69	J	0.75	5.0
4-Methyl-2-pentanone (MIBK)	4.4	U	4.4	10
Styrene	0.63	U	0.63	5.0
1,1,2,2-Tetrachloroethane	0.61	U	0.61	5.0
Tetrachloroethene	0.59	U	0.59	5.0
Toluene	0.69	U	0.69	5.0
1,1,1-Trichloroethane	0.52	U	0.52	5.0
1,1,2-Trichloroethane	0.88	U	0.88	5.0
Trichloroethene	0.23	U	0.23	5.0
Vinyl chloride	1.3	U	1.3	5.0
Xylenes, Total	0.61	U	0.61	5.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	58 - 140
Toluene-d8 (Surr)	101	80 - 126
4-Bromofluorobenzene (Surr)	102	76 - 127
Dibromofluoromethane (Surr)	100	75 - 121

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Method Blank TICs- Batch: 280-76252

Cas Number	Analyte	RT	Est. Result	Qual
87-61-6	1,2,3-Trichlorobenzene	15.93	0.980	J N J
120-82-1	1,2,4-Trichlorobenzene	15.34	0.750	J N J
87-68-3	Hexachlorobutadiene	15.53	0.689	J N J
91-20-3	Naphthalene	15.63	0.682	J N J
71-36-3	n-Butanol	7.04	17.8	J N J
	Tentatively Identified Compound		None	

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Lab Control Sample - Batch: 280-76252

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 280-76252/2-A	Analysis Batch:	280-76618	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-76252	Lab File ID:	J7934.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	07/12/2011 0836	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	46.2	92	76 - 120	
Bromodichloromethane	50.0	47.2	94	74 - 125	
Carbon tetrachloride	50.0	50.1	100	69 - 147	
Chlorobenzene	50.0	47.3	95	74 - 120	
Chloroform	50.0	46.7	93	77 - 125	
1,3-Dichlorobenzene	50.0	46.3	93	74 - 120	
1,1-Dichloroethane	50.0	45.2	90	74 - 120	
trans-1,2-Dichloroethene	50.0	49.7	99	80 - 127	
1,1-Dichloroethene	50.0	52.0	104	77 - 143	
1,2-Dichloropropane	50.0	45.4	91	74 - 120	
Ethylbenzene	50.0	45.3	91	78 - 120	
Methylene Chloride	50.0	49.0	98	76 - 137	
Tetrachloroethene	50.0	49.8	100	71 - 120	
Toluene	50.0	47.9	96	72 - 120	
1,1,1-Trichloroethane	50.0	47.6	95	67 - 143	
Trichloroethene	50.0	49.1	98	78 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	58 - 140
Toluene-d8 (Surr)	109	80 - 126
4-Bromofluorobenzene (Surr)	97	76 - 127
Dibromofluoromethane (Surr)	98	75 - 121

Lab Control Sample - Batch: 280-76252

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 280-76252/2-A	Analysis Batch:	280-76476	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-76252	Lab File ID:	J7964.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	07/12/2011 1950	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	53.2	106	76 - 120	
Bromodichloromethane	50.0	53.1	106	74 - 125	
Carbon tetrachloride	50.0	57.8	116	69 - 147	
Chlorobenzene	50.0	52.9	106	74 - 120	
Chloroform	50.0	52.5	105	77 - 125	
1,3-Dichlorobenzene	50.0	55.0	110	74 - 120	

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Lab Control Sample - Batch: 280-76252

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 280-76252/2-A	Analysis Batch:	280-76476	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-76252	Lab File ID:	J7964.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	07/12/2011 1950	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	50.0	51.6	103	74 - 120	
trans-1,2-Dichloroethene	50.0	56.6	113	80 - 127	
1,1-Dichloroethene	50.0	60.5	121	77 - 143	
1,2-Dichloropropane	50.0	50.9	102	74 - 120	
Ethylbenzene	50.0	52.1	104	78 - 120	
Methylene Chloride	50.0	53.2	106	76 - 137	
Tetrachloroethene	50.0	56.1	112	71 - 120	
Toluene	50.0	54.9	110	72 - 120	
1,1,1-Trichloroethane	50.0	54.6	109	67 - 143	
Trichloroethene	50.0	56.0	112	78 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92	58 - 140
Toluene-d8 (Surr)	101	80 - 126
4-Bromofluorobenzene (Surr)	92	76 - 127
Dibromofluoromethane (Surr)	93	75 - 121

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-76252

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	280-17794-1	Analysis Batch:	280-76618	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-76252	Lab File ID:	J7955.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.759 g
Analysis Date:	07/12/2011 1633			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				
Leach Date:	N/A				

MSD Lab Sample ID:	280-17794-1	Analysis Batch:	280-76618	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-76252	Lab File ID:	J7956.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.609 g
Analysis Date:	07/12/2011 1655			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	87	85	76 - 120	1	20		
Bromodichloromethane	92	90	74 - 125	1	20		
Carbon tetrachloride	90	89	69 - 147	2	20		
Chlorobenzene	87	83	74 - 120	1	20		
Chloroform	88	87	77 - 125	2	20		
1,3-Dichlorobenzene	89	84	74 - 120	3	20		
1,1-Dichloroethane	86	84	74 - 120	2	20		
trans-1,2-Dichloroethene	89	87	80 - 127	0	20		
1,1-Dichloroethene	94	91	77 - 143	0	20		
1,2-Dichloropropane	90	87	74 - 120	0	20		
Ethylbenzene	83	78	78 - 120	2	20		
Methylene Chloride	91	89	76 - 137	1	21		
Tetrachloroethene	85	82	71 - 120	1	20		
Toluene	90	87	72 - 120	0	20		
1,1,1-Trichloroethane	87	87	67 - 143	3	20		
Trichloroethene	89	88	78 - 120	2	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	98	58 - 140
Toluene-d8 (Surr)	103	102	80 - 126
4-Bromofluorobenzene (Surr)	95	94	76 - 127
Dibromofluoromethane (Surr)	96	90	75 - 121

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-76252

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	280-17794-9	Analysis Batch:	280-76476	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-76252	Lab File ID:	J7970.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.04 g
Analysis Date:	07/12/2011 2207			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				
Leach Date:	N/A				

MSD Lab Sample ID:	280-17794-9	Analysis Batch:	280-76476	Instrument ID:	MSV_J
Client Matrix:	Solid	Prep Batch:	280-76252	Lab File ID:	J7971.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.972 g
Analysis Date:	07/12/2011 2230			Final Weight/Volume:	5 mL
Prep Date:	07/08/2011 1237				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	88	89	76 - 120	3	20		
Bromodichloromethane	91	94	74 - 125	4	20		
Carbon tetrachloride	90	91	69 - 147	2	20		
Chlorobenzene	79	82	74 - 120	6	20		
Chloroform	90	92	77 - 125	4	20		
1,3-Dichlorobenzene	75	71	74 - 120	5	20		T
1,1-Dichloroethane	89	90	74 - 120	3	20		
trans-1,2-Dichloroethene	89	92	80 - 127	4	20		
1,1-Dichloroethene	97	98	77 - 143	2	20		
1,2-Dichloropropane	89	93	74 - 120	5	20		
Ethylbenzene	80	82	78 - 120	5	20		
Methylene Chloride	96	101	76 - 137	6	21		
Tetrachloroethene	80	81	71 - 120	3	20		
Toluene	86	87	72 - 120	3	20		
1,1,1-Trichloroethane	89	90	67 - 143	3	20		
Trichloroethene	86	88	78 - 120	3	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	96	58 - 140
Toluene-d8 (Surr)	102	104	80 - 126
4-Bromofluorobenzene (Surr)	98	96	76 - 127
Dibromofluoromethane (Surr)	94	95	75 - 121

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Method Blank - Batch: 280-75987

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-75987/1-A	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Client Matrix:	Solid	Prep Batch:	280-75987	Lab File ID:	Y1640.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.0 g
Analysis Date:	07/12/2011 1950	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	10	U	10	320
Acenaphthylene	16	U	16	320
Anthracene	16	U	16	320
Benzo[a]anthracene	19	U	19	320
Benzo[a]pyrene	19	U	19	320
Benzo[b]fluoranthene	25	U	25	320
Benzo[ghi]perylene	15	U	15	320
Benzo[k]fluoranthene	39	U	39	320
Bis(2-chloroethoxy)methane	22	U	22	320
Bis(2-chloroethyl)ether	16	U	16	320
bis (2-chloroisopropyl) ether	22	U	22	320
Bis(2-ethylhexyl) phthalate	70.9	J	45	320
4-Bromophenyl phenyl ether	18	U	18	320
Butyl benzyl phthalate	42	U	42	320
Carbazole	35	U	35	320
4-Chloroaniline	79	U	79	320
4-Chloro-3-methylphenol	64	U	64	320
2-Chloronaphthalene	9.7	U	9.7	320
2-Chlorophenol	20	U	20	320
4-Chlorophenyl phenyl ether	20	U	20	320
Chrysene	26	U	26	320
Dibenz(a,h)anthracene	18	U	18	320
Dibenzofuran	19	U	19	320
1,2-Dichlorobenzene	21	U	21	320
1,3-Dichlorobenzene	12	U	12	320
1,4-Dichlorobenzene	13	U	13	320
3,3'-Dichlorobenzidine	87	U	87	640
2,4-Dichlorophenol	9.7	U	9.7	320
Diethyl phthalate	25	U	25	320
2,4-Dimethylphenol	64	U	64	320
Dimethyl phthalate	22	U	22	320
Di-n-butyl phthalate	28	U	28	320
4,6-Dinitro-2-methylphenol	320	U	320	640
2,4-Dinitrophenol	320	U	320	800
2,4-Dinitrotoluene	64	U	64	320
2,6-Dinitrotoluene	27	U	27	320
Di-n-octyl phthalate	14	U	14	320
Fluoranthene	35	U	35	320
Fluorene	17	U	17	320
Hexachlorobenzene	28	U	28	320
Hexachlorobutadiene	9.7	U	9.7	320
Hexachlorocyclopentadiene	48	U	48	320
Hexachloroethane	21	U	21	320
Indeno[1,2,3-cd]pyrene	21	U	21	320
Isophorone	16	U	16	320

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Method Blank - Batch: 280-75987

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-75987/1-A	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Client Matrix:	Solid	Prep Batch:	280-75987	Lab File ID:	Y1640.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.0 g
Analysis Date:	07/12/2011 1950	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
2-Methylnaphthalene	18	U	18	320
2-Methylphenol	13	U	13	320
3 & 4 Methylphenol	32	U	32	320
Naphthalene	30	U	30	320
2-Nitroaniline	48	U	48	320
3-Nitroaniline	71	U	71	320
4-Nitroaniline	70	U	70	320
Nitrobenzene	21	U	21	320
2-Nitrophenol	9.7	U	9.7	320
4-Nitrophenol	94	U	94	640
N-Nitrosodi-n-propylamine	30	U	30	320
N-Nitrosodiphenylamine	20	U	20	320
Pentachlorophenol	320	U	320	640
Phenanthrene	16	U	16	320
Phenol	17	U	17	320
Pyrene	12	U	12	320
1,2,4-Trichlorobenzene	27	U	27	320
2,4,5-Trichlorophenol	9.7	U	9.7	320
2,4,6-Trichlorophenol	9.7	U	9.7	320

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	84	50 - 120
2-Fluorophenol	85	53 - 120
Nitrobenzene-d5	87	50 - 120
Phenol-d5	86	52 - 120
Terphenyl-d14	95	55 - 120
2,4,6-Tribromophenol	95	51 - 120

Method Blank TICs- Batch: 280-75987

Cas Number	Analyte	RT	Est. Result	Qual
791-28-6	Phosphine oxide, triphenyl-	11.07	905	N J
	Unknown	1.62	18700	J N
	Unknown	3.24	3590	J N

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Lab Control Sample - Batch: 280-75987

Method: 8270C
Preparation: 3550C

Lab Sample ID:	LCS 280-75987/2-A	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Client Matrix:	Solid	Prep Batch:	280-75987	Lab File ID:	Y1641.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.8 g
Analysis Date:	07/12/2011 2011	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	2600	2130	82	52 - 120	
Anthracene	2600	2310	89	57 - 120	
Carbazole	2600	2220	85	54 - 120	
4-Chloro-3-methylphenol	2600	2300	89	57 - 120	
2-Chlorophenol	2600	2030	78	53 - 120	
1,4-Dichlorobenzene	2600	1880	72	46 - 120	
2,4-Dinitrotoluene	2600	2290	88	53 - 120	
2-Methylnaphthalene	2600	2050	79	55 - 120	
2-Methylphenol	2600	2030	78	51 - 120	
4-Nitrophenol	2600	2620	101	41 - 120	
N-Nitrosodi-n-propylamine	2600	2100	81	51 - 120	
Pentachlorophenol	2600	2080	80	30 - 120	
Phenol	2600	2040	78	54 - 120	
Pyrene	2600	2310	89	50 - 120	
1,2,4-Trichlorobenzene	2600	1860	72	50 - 120	
2,4,6-Trichlorophenol	2600	2290	88	50 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	83	50 - 120
2-Fluorophenol	80	53 - 120
Nitrobenzene-d5	84	50 - 120
Phenol-d5	83	52 - 120
Terphenyl-d14	89	55 - 120
2,4,6-Tribromophenol	95	51 - 120

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-75987

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-17794-3	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Client Matrix:	Solid	Prep Batch:	280-75987	Lab File ID:	Y1645.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.7 g
Analysis Date:	07/12/2011 2134			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-17794-3	Analysis Batch:	280-76473	Instrument ID:	MSS_Y
Client Matrix:	Solid	Prep Batch:	280-75987	Lab File ID:	Y1646.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.4 g
Analysis Date:	07/12/2011 2154			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 2220			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	82	87	52 - 120	7	30		
Anthracene	92	95	57 - 120	4	30		
Carbazole	88	92	54 - 120	5	30		
4-Chloro-3-methylphenol	90	95	57 - 120	6	30		
2-Chlorophenol	77	82	53 - 120	8	30		
1,4-Dichlorobenzene	72	77	46 - 120	7	30		
2,4-Dinitrotoluene	91	96	53 - 120	7	30		
2-Methylnaphthalene	77	83	55 - 120	8	30		
2-Methylphenol	78	83	51 - 120	8	30		
4-Nitrophenol	101	109	41 - 120	9	30		
N-Nitrosodi-n-propylamine	81	86	51 - 120	6	30		
Pentachlorophenol	71	77	30 - 120	9	30		
Phenol	77	82	54 - 120	7	30		
Pyrene	92	96	50 - 120	5	38		
1,2,4-Trichlorobenzene	70	74	50 - 120	7	30		
2,4,6-Trichlorophenol	88	92	50 - 120	6	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl	82	89	50 - 120
2-Fluorophenol	78	83	53 - 120
Nitrobenzene-d5	81	87	50 - 120
Phenol-d5	81	87	52 - 120
Terphenyl-d14	89	94	55 - 120
2,4,6-Tribromophenol	95	102	51 - 120

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Method Blank - Batch: 280-75962

Method: 8081A
Preparation: 3550C

Lab Sample ID:	MB 280-75962/1-A	Analysis Batch:	280-76779	Instrument ID:	GCS_P2
Client Matrix:	Solid	Prep Batch:	280-75962	Lab File ID:	07130022.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.0 g
Analysis Date:	07/13/2011 2015	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	07/11/2011 1520			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
4,4'-DDD	0.53	U	0.53	1.6
4,4'-DDE	0.23	U	0.23	1.6
4,4'-DDT	0.57	U	0.57	1.6
Aldrin	0.24	U	0.24	1.6
alpha-BHC	0.21	U	0.21	1.6
beta-BHC	0.64	U	0.64	1.6
delta-BHC	0.39	U	0.39	1.6
gamma-BHC (Lindane)	0.45	U	0.45	1.6
Heptachlor	0.21	U	0.21	1.6
Heptachlor epoxide	0.41	U	0.41	1.6
Endosulfan I	0.17	U	0.17	1.6
Endosulfan II	0.28	U	0.28	1.6
Endosulfan sulfate	0.27	U	0.27	1.6
Endrin	0.30	U	0.30	1.6
Endrin aldehyde	0.17	U	0.17	1.6
Endrin ketone	0.47	U	0.47	1.6
gamma-Chlordane	0.26	U	0.26	1.6
Methoxychlor	0.44	U	0.44	3.2
alpha-Chlordane	0.31	U	0.31	1.6
Dieldrin	0.20	U	0.20	1.6
Toxaphene	15	U	15	160

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	108	59 - 115
Decachlorobiphenyl	100	63 - 124

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Lab Control Sample - Batch: 280-75962

Method: 8081A
Preparation: 3550C

Lab Sample ID:	LCS 280-75962/2-A	Analysis Batch:	280-76779	Instrument ID:	GCS_P2
Client Matrix:	Solid	Prep Batch:	280-75962	Lab File ID:	07130013.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	07/13/2011 1747	Units:	ug/Kg	Final Weight/Volume:	10000 uL
Prep Date:	07/11/2011 1520			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
4,4'-DDD	16.4	14.7	90	57 - 118	
4,4'-DDE	16.4	15.3	94	61 - 115	
4,4'-DDT	16.4	17.8	109	53 - 125	
Aldrin	16.4	14.9	91	60 - 115	
alpha-BHC	16.4	15.8	97	54 - 115	
beta-BHC	16.4	15.7	95	58 - 115	
delta-BHC	16.4	15.9	97	62 - 115	
gamma-BHC (Lindane)	16.4	16.0	98	59 - 115	
Heptachlor	16.4	16.3	99	61 - 115	
Heptachlor epoxide	16.4	16.2	99	62 - 112	
Endosulfan I	16.4	16.7	102	55 - 115	
Endosulfan II	16.4	17.0	104	60 - 115	
Endosulfan sulfate	16.4	17.5	107	58 - 118	
Endrin	16.4	19.4	119	61 - 121	
Endrin aldehyde	16.4	15.6	95	54 - 115	
Endrin ketone	16.4	15.6	95	61 - 118	
gamma-Chlordane	16.4	16.5	101	60 - 115	
Methoxychlor	16.4	17.9	109	52 - 123	
alpha-Chlordane	16.4	16.4	100	60 - 115	
Dieldrin	16.4	17.7	108	63 - 117	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	99	59 - 115
Decachlorobiphenyl	120	63 - 124

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-75962

Method: 8081A
Preparation: 3550C

MS Lab Sample ID:	280-17794-2	Analysis Batch:	280-77040	Instrument ID:	GCS_P2
Client Matrix:	Solid	Prep Batch:	280-75962	Lab File ID:	07150014.D
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	30.8 g
Analysis Date:	07/15/2011 2101			Final Weight/Volume:	10000 uL
Prep Date:	07/11/2011 1520			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-17794-2	Analysis Batch:	280-77040	Instrument ID:	GCS_P2
Client Matrix:	Solid	Prep Batch:	280-75962	Lab File ID:	07150015.D
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	30.3 g
Analysis Date:	07/15/2011 2118			Final Weight/Volume:	10000 uL
Prep Date:	07/11/2011 1520			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
4,4'-DDD	82	89	57 - 118	10	20		
4,4'-DDE	222	227	61 - 115	4	15	N	N
4,4'-DDT	80	87	53 - 125	3	29		
Aldrin	85	93	60 - 115	10	50		
alpha-BHC	91	100	54 - 115	10	17		
beta-BHC	90	102	58 - 115	14	17		
delta-BHC	84	94	62 - 115	12	19		
gamma-BHC (Lindane)	89	97	59 - 115	11	24		
Heptachlor	92	100	61 - 115	10	18		
Heptachlor epoxide	89	97	62 - 112	8	18		
Endosulfan I	95	101	55 - 115	8	26		
Endosulfan II	100	106	60 - 115	7	20		
Endosulfan sulfate	101	107	58 - 118	8	22		
Endrin	93	102	61 - 121	11	30		
Endrin aldehyde	77	117	54 - 115	9	29		N
Endrin ketone	88	95	61 - 118	10	20		
gamma-Chlordane	93	101	60 - 115	10	21		
Methoxychlor	86	94	52 - 123	6	23		
alpha-Chlordane	101	108	60 - 115	7	18		
Dieldrin	0	0	63 - 117	NC	25	U N	U N

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Tetrachloro-m-xylene	111	114	59 - 115
Decachlorobiphenyl	116	109	63 - 124

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Method Blank - Batch: 280-75806

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-75806/1-A	Analysis Batch:	280-77104	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-75806	Lab File ID:	049F4901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.3 g
Analysis Date:	07/14/2011 1408	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	07/09/2011 1148			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	2.7	U	2.7	9.6
Aroclor 1221	7.7	U	7.7	16
Aroclor 1232	1.9	U	1.9	9.6
Aroclor 1242	4.5	U	4.5	9.6
Aroclor 1248	4.5	U	4.5	9.6
Aroclor 1254	2.5	U	2.5	9.6
Aroclor 1260	2.5	U	2.5	9.6

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	92	59 - 130
Tetrachloro-m-xylene	101	53 - 128

Lab Control Sample - Batch: 280-75806

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-75806/2-A	Analysis Batch:	280-77104	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-75806	Lab File ID:	050F5001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.0 g
Analysis Date:	07/14/2011 1429	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	07/09/2011 1148			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	32.3	29.1	90	54 - 132	
Aroclor 1260	32.3	32.3	100	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	93	59 - 130
Tetrachloro-m-xylene	88	53 - 128

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-75806

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-17794-1	Analysis Batch:	280-77104	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-75806	Lab File ID:	052F5201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	07/14/2011 1512			Final Weight/Volume:	5000 uL
Prep Date:	07/09/2011 1148			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-17794-1	Analysis Batch:	280-77104	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-75806	Lab File ID:	053F5301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	07/14/2011 1533			Final Weight/Volume:	5000 uL
Prep Date:	07/09/2011 1148			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	102	111	54 - 132	10	26		
Aroclor 1260	80	83	62 - 129	3	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	80	87	59 - 130
Tetrachloro-m-xylene	86	95	53 - 128

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Method Blank - Batch: 280-75945

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-75945/1-A	Analysis Batch:	280-77290	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-75945	Lab File ID:	005F0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.4 g
Analysis Date:	07/18/2011 1154	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 1140			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	950	U	950	3800
C10-C28	715	J	650	3800

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	98	49 - 115

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-75945

Method: NWTPH-Dx
Preparation: 3550C

LCS Lab Sample ID:	LCS 280-75945/2-A	Analysis Batch:	280-77290	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-75945	Lab File ID:	006F0601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.5 g
Analysis Date:	07/18/2011 1228	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 1140			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-75945/18-A	Analysis Batch:	280-77290	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-75945	Lab File ID:	023F2301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	07/18/2011 2206	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 1140			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
C10-C36	92	96	57 - 115	7	23		
C10-C28	92	95	53 - 115	7	23		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	100	95	49 - 115

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-75945

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-17794-1	Analysis Batch:	280-77290	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-75945	Lab File ID:	008F0801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.5 g
Analysis Date:	07/18/2011 1336			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 1140			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-17794-1	Analysis Batch:	280-77290	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-75945	Lab File ID:	009F0901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.4 g
Analysis Date:	07/18/2011 1410			Final Weight/Volume:	1000 uL
Prep Date:	07/11/2011 1140			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	79	86	57 - 115	9	23		
C10-C28	81	87	56 - 115	8	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	96	100	49 - 115

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Method Blank - Batch: 280-75874

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-75874/1-A	Analysis Batch:	280-77008	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-75874	Lab File ID:	25A1071511.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	07/15/2011 1305	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	07/14/2011 1500				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	1.6	U	1.6	5.0
Antimony	0.38	U	0.38	0.60
Arsenic	0.66	U	0.66	1.0
Barium	0.076	U	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	14.1	U	14.1	50.0
Chromium	0.058	U	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.22	U	0.22	1.0
Iron	3.8	U	3.8	5.0
Lead	0.27	U	0.27	0.50
Magnesium	3.7	U	3.7	20.0
Manganese	0.10	U	0.10	1.0
Molybdenum	0.26	U	0.26	2.0
Nickel	0.12	U	0.12	4.0
Potassium	41.0	U	41.0	300
Selenium	0.86	U	0.86	1.0
Silicon	5.7	U	5.7	10.0
Silver	0.16	U	0.16	0.20
Sodium	59.0	U	59.0	120
Vanadium	0.094	U	0.094	2.0
Zinc	0.40	U	0.40	1.0

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Lab Control Sample - Batch: 280-75874

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-75874/2-A	Analysis Batch:	280-77008	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-75874	Lab File ID:	25A1071511.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	07/15/2011 1307	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	07/14/2011 1500				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	204.3	102	82 - 116	
Antimony	50.0	51.27	103	82 - 110	
Arsenic	100	98.59	99	85 - 110	
Barium	200	195.7	98	87 - 112	
Beryllium	5.00	5.06	101	84 - 114	
Boron	100	102.0	102	81 - 110	
Cadmium	10.0	10.44	104	87 - 110	
Calcium	5000	4997	100	82 - 114	
Chromium	20.0	20.32	102	84 - 114	
Cobalt	50.0	50.39	101	87 - 110	
Copper	25.0	24.35	97	88 - 110	
Iron	100	97.28	97	87 - 120	
Lead	50.0	49.39	99	86 - 110	
Magnesium	5000	4957	99	90 - 110	
Manganese	50.0	49.20	98	88 - 110	
Molybdenum	100	101.2	101	86 - 110	
Nickel	50.0	50.15	100	87 - 110	
Potassium	5000	5012	100	89 - 110	
Selenium	200	199.7	100	83 - 110	
Silicon	1000	162.0	16	10 - 70	
Silver	5.00	4.97	99	87 - 114	
Sodium	5000	5261	105	90 - 112	
Vanadium	50.0	49.65	99	88 - 110	
Zinc	50.0	50.51	101	76 - 114	

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Matrix Spike - Batch: 280-75874

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-17794-1	Analysis Batch:	280-77008	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-75874	Lab File ID:	25A1071511.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	07/15/2011 1314	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	07/14/2011 1500				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	6510		189	8658	1137	50 - 200	4
Antimony	0.33	U	47.3	30.31	64	20 - 200	
Arsenic	2.3		94.5	90.59	93	76 - 111	
Barium	47.8		189	232.0	97	52 - 159	
Beryllium	0.14	B	4.73	4.72	97	72 - 105	
Boron	1.3	B	94.5	90.21	94	75 - 107	
Cadmium	0.043	B	9.45	9.42	99	40 - 130	
Calcium	5910		4730	11460	117	43 - 165	
Chromium	11.1		18.9	31.91	110	70 - 200	
Cobalt	5.7		47.3	50.52	95	72 - 106	
Copper	11.9		23.6	34.52	96	37 - 187	
Iron	15500		94.5	16690	1294	70 - 200	4
Lead	3.7		47.3	47.19	92	70 - 200	
Magnesium	4010		4730	9063	107	64 - 145	
Manganese	248		47.3	319.4	151	40 - 200	4
Molybdenum	0.23	U	94.5	87.92	93	75 - 103	
Nickel	11.5		47.3	56.39	95	61 - 126	
Potassium	920		4730	5630	100	56 - 172	
Selenium	0.76	U	189	176.5	93	76 - 104	
Silicon	346		945	518.1	18	20 - 200	N
Silver	0.14	U	4.73	4.45	94	75 - 141	
Sodium	197		4730	5162	105	78 - 111	
Vanadium	37.0		47.3	86.00	104	50 - 169	
Zinc	32.3		47.3	80.06	101	70 - 200	

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Duplicate - Batch: 280-75874

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-17794-1	Analysis Batch:	280-77008	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-75874	Lab File ID:	25A1071511.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.17 g
Analysis Date:	07/15/2011 1316	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	07/14/2011 1500				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	6510		6899	6	40	
Antimony	0.33	U	0.33	NC	40	U
Arsenic	2.3		2.12	9	30	
Barium	47.8		47.88	0.08	30	
Beryllium	0.14	B	0.144	0.4	30	B
Boron	1.3	B	1.36	6	30	B
Cadmium	0.043	B	0.0702	48	30	B M
Calcium	5910		6013	2	30	
Chromium	11.1		12.61	13	40	
Cobalt	5.7		6.00	6	30	
Copper	11.9		11.96	0.7	30	
Iron	15500		16390	6	40	
Lead	3.7		3.69	0.4	40	
Magnesium	4010		4151	3	30	
Manganese	248		257.3	4	40	
Molybdenum	0.23	U	0.22	NC	30	U
Nickel	11.5		11.92	3	30	
Potassium	920		987.2	7	40	
Selenium	0.76	U	0.74	NC	30	U
Silicon	346		363.7	5	40	
Silver	0.14	U	0.14	NC	30	U
Sodium	197		196.8	0.3	30	
Vanadium	37.0		39.79	7	30	
Zinc	32.3		33.24	3	40	

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Method Blank - Batch: 280-75885

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-75885/1-A	Analysis Batch:	280-77004	Instrument ID:	MT_034
Client Matrix:	Solid	Prep Batch:	280-75885	Lab File ID:	110715TA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.6 g
Analysis Date:	07/15/2011 2059	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1435				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-75885

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-75885/2-A	Analysis Batch:	280-77004	Instrument ID:	MT_034
Client Matrix:	Solid	Prep Batch:	280-75885	Lab File ID:	110715TA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.6 g
Analysis Date:	07/15/2011 2101	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1435				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.405	97	87 - 111	

Matrix Spike - Batch: 280-75885

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-17794-4	Analysis Batch:	280-77004	Instrument ID:	MT_034
Client Matrix:	Solid	Prep Batch:	280-75885	Lab File ID:	110715TA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.65 g
Analysis Date:	07/15/2011 2115	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1435				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.0049	U	0.385	0.381	99	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Duplicate - Batch: 280-75885

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-17794-4	Analysis Batch:	280-77004	Instrument ID:	MT_034
Client Matrix:	Solid	Prep Batch:	280-75885	Lab File ID:	110715TA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.62 g
Analysis Date:	07/15/2011 2112	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	07/15/2011 1435				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.0049	U	0.0054	NC	20	U

Client: Washington Closure Hanford

Job Number: 280-17794-1
Sdg Number: J01158

Duplicate - Batch: 280-76150

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-17794-1	Analysis Batch:	280-76150	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	07/12/2011 0950	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	0.20	0.20	0.5	20	

-0.6, -0-3, -0.4, 0-1, -0-7

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-217-007	Page 1 of 3

Collector: D. Rice	Company Contact: Jen Russell — Telephone No.: (509) 380-8093	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 8C JR 6/30/11 — Data Turnaround: ~~21 Days~~ 15/15 JR 6/30/11
Project Designation: 100F Remaining Sites Remediation - Soil-Full Protocol	Sampling Location: 100-F-48 VERIFICATION (CSA)	SAF No.: RC-217	
Ice Chest No.: WCH-11-056	Field Logbook No.: EL-1651-01 — COA: R00F482000	Method of Shipment: FedEx	
Shipped To: TestAmerica Incorporated, Richland (Denver)	Offsite Property No.: NA	Bill of Lading/Air Bill No.: 7949 5065 8986	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4C

Preservation	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C				
Type of Container	G/P	G	Gs*	aG	aG	aG				
No. of Container(s)	1	1	5	1 JR 6/30/11	10	10				
Volume	60mL	120mL	40mL	~~120mL~~ 500mL	120mL	120mL				
SAMPLE ANALYSIS	See item (1) in Special Instructions	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL) *	Semi-VOA - 8270A (TCL)	PCBs - 8082	Pesticides - 8081				

Sample No.	Matrix *	Sample Date	Sample Time										CSA
J1K406	SOIL	7-7-11	0715	X	X	X	X	X	X				1
J1K407	SOIL	7-7-11	0730	X	X	X	X	X	X				2
J1K408	SOIL	7-7-11	0745	X	X	X	X	X	X				3
J1K409	SOIL	7-7-11	0800	X	X	X	X	X	X				4
J1K410	SOIL	7-7-11	0815	X	X	X	X	X	X				5

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
David D. Rice	7-7-11 1030	Jen Russell / Jen Russell	7-7-11 1030
Jen Russell / Jen Russell (WCH)	7-7-11 1130	FedEx	
			7/8/11

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV) {Mercury}

*freeze upon receipt

SDG J01158

REVIEWED BY AJ DATE 7-7-11

Voa Samples Frozen Upon Collection

Matrix *: S=Soil, SE=Sediment, SO=Solid, SL=Sludge, W=Water, O=Oil, A=Air, DS=Drum Solids, DL=Drum Liquids, T=Tissue, WI=Wipe, L=Liquid, V=Vegetation, X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-217-007	Page 2 of 3
Collector: D. Rice	Company Contact: Jen Russell; Telephone No.: (509) 380-8093	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 8C (JR 6/30/11); Data Turnaround: ~~21 Days~~ 15/15 (JR 6/30/11)
Project Designation: 100F Remaining Sites Remediation - Soil-Full Protocol	Sampling Location: 100-F-48 VERIFICATION (CSA)	SAF No.: RC-217	
Ice Chest No.: WCH-11-056	Field Logbook No.: EL-1651-01; COA: R00F482000	Method of Shipment: FedEx	
Shipped To: TestAmerica Incorporated, Richland (Denver)	Offsite Property No.: NA	Bill of Lading/Air Bill No.: 7949 5065 8986	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4C

Preservation	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C					
Type of Container	G/P	G	Gs*	aG	aG	aG					
No. of Container(s)	1	1	5	1 JR 6/30/11	0	0					
Volume	60mL	120mL	40mL	~~120mL~~ 500mL	120mL	120mL					
SAMPLE ANALYSIS	See item (1) in Special Instructions.	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL) *	Semi-VOA - 8270A (TCL)	PCBs - 8082	Pesticides - 8081					

Sample No.	Matrix *	Sample Date	Sample Time										(CSA)
J1K411	SOIL	7-7-11	0830	X	X	X	X	X	X				6
J1K412	SOIL	7-7-11	0845	X	X	X	X	X	X				7
J1K413	SOIL	7-7-11	0900	X	X	X	X	X	X				8
J1K414	SOIL	7-7-11	0915	X	X	X	X	X	X				9
J1K415	SOIL	7-7-11	0930	X	X	X	X	X	X				10

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: David D. Rice	JR 7-7-11		
Relinquished By/Removed From: David D. Rice	7-7-11 1030	Received By/Stored In: Jen Russell / Jen Russell	7-7-11 1030
Relinquished By/Removed From: WCH / Jen Russell / Jen Russell	7-7-11 1130	Received By/Stored In: FedEx	
Relinquished By/Removed From		Received By/Stored In	7/8/11 800
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV) {Mercury}

*freeze upon receipt

SDG J01158

Voa Samples Frozen Upon Collection

REVIEWED BY AJ DATE 7-7-11

Matrix *: S=Soil; SE=Sediment; SO=Solid; Sl=Sludge; W = Water; O=Oil; A=Air; DS=Drum Solids; DL=Drum Liquids; T=Tissue; WI=Wipe; L=Liquid; V=Vegetation; X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-217-007	Page 3 of 3

Collector D. Rice	Company Contact Jen Russell	Telephone No. (509) 380-8093	Project Coordinator KESSNER, JH
Price Code ~~8L~~ JR 6/30/11 8C	Data Turnaround JR 6/30/11 ~~21 Days~~ 15/15		
Project Designation 100F Remaining Sites Remediation - Soil-Full Protocol	Sampling Location 100-F-48 VERIFICATION (CSA)		SAF No. RC-217
Ice Chest No. WCH-11-056	Field Logbook No. EL-1651-01	COA R00F482000	Method of Shipment FedEx
Shipped To TestAmerica Incorporated, Richland / Denver	Offsite Property No. NA		Bill of Lading/Air Bill No. 7949 5065 8986

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4C

Preservation	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C	Cool 4C					
Type of Container	G/P	G	Gs*	aG JR 6/30/11	aG	aG					
No. of Container(s)	1	1	5	1	0	0					
Volume	60mL	120mL	40mL	~~120mL~~ 500mL	120mL	120mL					
SAMPLE ANALYSIS	See item (1) in Special Instructions.	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL) *	Semi-VOA - 8270A (TCL)	PCBs - 8082	Pesticides - 8081					

Sample No.	Matrix *	Sample Date	Sample Time											QA
J1K416	SOIL	7-7-11	0945	X	X	X	X	X	X					11
J1K417	SOIL	7-7-11	0955	X	X	X	X	X	X					12
J1K418	SOIL	7-7-11	0845	X	X	X	X	X	X					DUP
~~J1K419~~ JR 7/7/11	~~SOIL~~													EB

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
David D. Rice	7-7-11 1030	Jen Russell JuRussell	7-7-11 1030
Jen Russell JuRussell (WCH)	7-7-11 1130	FedEx	
		7/8/11 800	

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV) {Mercury}

Voa Samples Frozen Upon Collection

freeze upon receipt

REVIEWED BY AJ DATE 7-7-11

SDG J01158

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wi=Wipe
L=Liquid
V=Vegetation
X=Other

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

Page 1 of 3

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 -60102 -Solid

Analytical Due:

Report Due: 7/25/11 (Rush 10day TAT)

Sample Check-in List

Date/Time Received: 7/8/11 0900 GM Screen Result 12 microR/hr

Client: Washington Closure Hanford SDG #: J01158 NA[ ] SAF #: RC-217 NA [ ]

Job Number: 17794 Chain of Custody # RC-217-007

Shipping Container ID: WCH-11-056 ERC-03-103 ERC-06-061 WCH-11-007 ERC-96-061 Air Bill # 7949 5065 8586, 7949 5065 9099 7949 5065 9169 7949 5065 9191 7949 5065 9283

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature °C: -0.6, -0.3, -0.4 -0.1, -0.7 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 13
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ✓ Tape
   - ✓ Custody Seals
   - ✓ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ✓ Broken
   - ____ Leaking
   - ____ Have Air Bubbles (Only for samples requiring no head space.)
10. Sample pH taken? NA [ ] pH<2 [ ] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added ____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [✓] No [ ]
13. Description of anomalies (include sample numbers): 1/1 1L02 jar for J1H411 arrived with broken lid. No same was lost, Lid Replaced.

Sample Custodian: [signature] Date: 7/8/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on 7/11/11 by MT Person Contacted Joan Kessner

[X] No action necessary; process as is.

Project Manager [signature] Date 7/11/11

From: (509) 375-4640 Origin ID: PSCA
WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx. Express

J1120110429022 5

Ship Date: 07JUL11
ActWgt: 42.0 LB
CAD: 8897843/INET3180

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

1 of 5

FRI - 08 JUL A1
PRIORITY OVERNIGHT

TRK# 7949 5065 8986
0201

MASTER

XH WHHA

80002
CO-US
DEN

50FG2/F556/F5F4

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FedEx. Express

J11201104290225

Ship Date: 07JUL11
ActWgt: 42.0 LB
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Delivery Address Bar Code

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Invoice #
PO #
Dept #

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Sample Recieving
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ARVADA, CO 80002

2 of 5

FRI - 08 JUL A1
PRIORITY OVERNIGHT

MPS# 7949 5065 9099
0263
Mstr# 7949 5065 8986 0201

XH WHHA

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CO-US
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RICHLAND, WA 99354

FedEx. Express

J112011042902 25

Ship Date: 07JUL11
ActWgt: 74.0 LB
CAD: 8897843/INET3180

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

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Sample Recieving
Test America Denver
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ARVADA, CO 80002

3 of 5

FRI - 08 JUL A1
PRIORITY OVERNIGHT

MPS# 7949 5065 9169
0263

Mstr# 7949 5065 8986 0201

XH WHHA

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FedEx. Express

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Ship Date: 07JUL11
ActWgt: 72.0 LB
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Invoice #
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FRI - 08 JUL A1
PRIORITY OVERNIGHT

MPS# 7949 5065 9191
0263

Mstr# 7949 5065 8986 0201

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Invoice #
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Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

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FRI - 08 JUL A1
PRIORITY OVERNIGHT

MPS# 7949 5065 9283
0263
Mstr# 7949 5065 8986 0201

XH WHHA

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