0096287

SAF-RC-181
ARRA 100-F Remaining Sites Remediation – Soil Full Protocol
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 5/11/11
INITIAL/DATE

COMMENTS:

SDG J01085 SAF-RC-181

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location: 100-F-44:8 Verification

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-14664-1

SDG Number: J01085

Job Description: SAF# RC-181

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

Attention: Joan H Kessner

Approved for release.
Kae E Yoder
Project Manager II
5/9/2011 2:54 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
05/09/2011

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.

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ACCREDITED IN ACCORDANCE WITH nelac

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CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-14664-1

SDG #: J01085
SAF#: RC-181

Date SDG Closed: April 15, 2011
Data Deliverable: 21 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1HH45	280-14664-1	6010/7471/WTPH-D+/8260/8310/8082	6010B/7471A/NWTPH-Dx/8260B/8310/8082
J1HH46	280-14664-2	6010/7471/WTPH-D+/8260/8310/8082	6010B/7471A/NWTPH-Dx/8260B/8310/8082
J1HH47	280-14664-3	6010/7471/WTPH-D+/8260/8310/8082	6010B/7471A/NWTPH-Dx/8260B/8310/8082
J1HH48	280-14664-4	6010/7471/WTPH-D+/8260/8310/8082	6010B/7471A/NWTPH-Dx/8260B/8310/8082
J1HH49	280-14664-5	6010/7471/WTPH-D+/8260/8310/8082	6010B/7471A/NWTPH-Dx/8260B/8310/8082
J1HH50	280-14664-6	6010/7471/WTPH-D+/8260/8310/8082	6010B/7471A/NWTPH-Dx/8260B/8310/8082
J1HH51	280-14664-7	6010/7471/WTPH-D+/8260/8310/8082	6010B/7471A/NWTPH-Dx/8260B/8310/8082
J1HH52	280-14664-8	6010/7471/WTPH-D+/8260/8310/8082	6010B/7471A/NWTPH-Dx/8260B/8310/8082
J1HH53	280-14664-9	6010/7471/WTPH-D+/8260/8310/8082	6010B/7471A/NWTPH-Dx/8260B/8310/8082
J1HH54	280-14664-10	6010/7471/WTPH-D+/8260/8310/8082	6010B/7471A/NWTPH-Dx/8260B/8310/8082
J1HH55	280-14664-11	6010/7471/WTPH-D+/8260/8310/8082	6010B/7471A/NWTPH-Dx/8260B/8310/8082
J1HH56	280-14664-12	6010/7471/WTPH-D+/8260/8310/8082	6010B/7471A/NWTPH-Dx/8260B/8310/8082
J1HH57	280-14664-13	6010/7471/WTPH-D+/8260/8310/8082	6010B/7471A/NWTPH-Dx/8260B/8310/8082
J1HH61	280-14664-14	6010/7471	6010B/7471A

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 4/15/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 5.8 C, 5.8 C and 4.8 C.

GC/MS VOLATILES - SW846 8260B
Low levels of Carbon disulfide and Methylene Chloride are present in the method blank associated with batch 280-62597. Because the concentrations in the method blank are not present at levels greater than the reporting limits, corrective action is deemed unnecessary. Associated sample results present above the MDL and/or RL have been flagged with a "B".

The MS aliquot of the MS/MSD performed on sample J1HH45 exhibited spike compound recoveries outside the control limits, and the associated sample results have been flagged "T". The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

The MS/MSD performed on sample J1HH49 exhibited spike compound recoveries outside the control limits, and the associated sample results have been flagged "T". In addition, RPD limits were exceeded. 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 SEMIVOLATILES - SW846 8082 - PCBs

The laboratory noted that a Sulfuric Acid clean-up was performed on the samples presented in this report to reduce matrix interferences.

Surrogate Decachlorobiphenyl was recovered outside the control limits, biased low, in samples J1HH49 and J1HH52. The laboratory noted that this anomaly is due to obvious matrix interference; therefore, corrective action is deemed unnecessary.

Each sample is analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to high constituent concentration, samples had to be analyzed at dilutions, and the associated results have been flagged with a "D". The reporting limits have been adjusted relative to the dilutions required.

In some cases, sample surrogate recoveries have been "D" flagged, as the recoveries obtained are calculated from diluted samples and are not considered reliable.

In some cases, the RPD between the primary and confirmation columns exceeded 25%. Associated results in the analytical report have been flagged with a "P".

Spike compound recoveries, RPD data and surrogate recoveries have been "D" flagged in the MS and MSD performed on sample J1HH54, as the recoveries obtained are calculated from diluted samples and are not considered reliable. The acceptable LCS analysis data indicated that the analytical system was operating within control.

No other anomalies were encountered.

GC SEMIVOLATILES - NWTPH-Dx - DRO

The method specified final extract volume is 1000 uLs; however, due to the nature of the sample matrix, sample J1HH51 would not concentrate below 5000 uLs and sample J1HH56 would not concentrate below 10000 uLs. The reporting limits have been elevated accordingly.

No other anomalies were encountered.

HPLC - SW846 8310 - PAHs

In some cases, the RPD between the primary and confirmation columns exceeded 40%. The lower of the two values have been reported, as matrix interference is evident. Associated results have been flagged with an "X".

Surrogate Terphenyl-d14 was recovered outside the control limits, biased high, in sample J1HH57. Surrogate Terphenyl-d14 was also recovered outside the control limits, biased high, in the MS/MSD performed on sample J1HH57, demonstrating that this anomaly is most likely due to matrix interference; therefore, corrective action is deemed unnecessary.

The MS/MSD performed on sample J1HH57 exhibited spike compound recoveries outside the control limits, and the associated sample results have been flagged "N". In addition, RPD limits were exceeded. 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 low, on the confirmation column for Dibenzo(a,h)anthracene (-17%). The overall mean %D is $\leq$15%; therefore, method criteria have been met and corrective action is deemed unnecessary.

No other anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A

Serial dilution of a digestate in batch 280-62838 indicates that physical and chemical interferences are present for several elements. Results have been flagged with an "X".

Iron is present at a level greater than the reporting limit in the method blank associated with batch 280-62838. As the associated sample amounts are ten times greater than the method blank concentration, corrective action is deemed unnecessary.

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 J1HH45; therefore, control limits are not applicable.

Silicon was recovered outside the control limits in the SW846 6010B Matrix Spike performed on sample J1HH45, 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 J1HH45 exhibited RPD data outside the control limits for Arsenic, Cadmium and Copper, and the associated sample results have 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: 280-14664-1
Sdg Number: J01085

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Analyte was found in the associated method blank as well as in the sample.
	U	Analyzed for but not detected.
	J	Indicates an Estimated Value for TICs
	T	MS, MSD: Recovery exceeds upper or lower control limits.
	*	MS/MSD RPD exceeded the control limit
	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 Semi VOA		
	U	Analyzed for but not detected.
	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.
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Lab Section	Qualifier	Description
HPLC/IC		
	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.
	*	MS/MSD RPD exceeded the control limit
	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

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Closed System Purge and Trap	TAL DEN		SW846 5035
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL DEN	SW846 8082	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Northwest - Semi-Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Dx	
Ultrasonic Extraction	TAL DEN		SW846 3550C
PAHs (HPLC)	TAL DEN	SW846 8310	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury	TAL DEN		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: 280-14664-1
Sdg Number: J01085

Method	Analyst	Analyst ID
SW846 8260B	Reinhardt, Jason	JR
SW846 8082	Jackson, Todd D	TDJ
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Bowen, Heidi E	HEB
SW846 7471A	Niman, Katie M	KMN
ASTM D-2216	Berry III, Paul B	PBB
SW846 8310	Hall, Koley J	KJH

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-14664-1	J1HH45	Solid	04/14/2011 1010	04/15/2011 0930
280-14664-2	J1HH46	Solid	04/14/2011 1040	04/15/2011 0930
280-14664-3	J1HH47	Solid	04/14/2011 1050	04/15/2011 0930
280-14664-4	J1HH48	Solid	04/14/2011 1055	04/15/2011 0930
280-14664-5	J1HH49	Solid	04/14/2011 1100	04/15/2011 0930
280-14664-6	J1HH50	Solid	04/14/2011 1105	04/15/2011 0930
280-14664-7	J1HH51	Solid	04/14/2011 1110	04/15/2011 0930
280-14664-8	J1HH52	Solid	04/14/2011 1120	04/15/2011 0930
280-14664-9	J1HH53	Solid	04/14/2011 1130	04/15/2011 0930
280-14664-10	J1HH54	Solid	04/14/2011 1140	04/15/2011 0930
280-14664-11	J1HH55	Solid	04/14/2011 1145	04/15/2011 0930
280-14664-12	J1HH56	Solid	04/14/2011 1150	04/15/2011 0930
280-14664-13	J1HH57	Solid	04/14/2011 1130	04/15/2011 0930
280-14664-14EB	J1HH61	Solid	04/14/2011 1141	04/15/2011 0930

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH45**

Lab Sample ID: 280-14664-1
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/14/2011 1010
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4552.D
Dilution:	1.0			Initial Weight/Volume:	4.356 g
Analysis Date:	04/19/2011 1316			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.4	U	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 T	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		0.79	U T	0.79	5.9
2-Hexanone		5.8	U	5.8	24
Methylene Chloride		3.4	J B	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 T	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)	81		58 - 140
Toluene-d8 (Surr)	98		80 - 126
4-Bromofluorobenzene (Surr)	97		76 - 127
Dibromofluoromethane (Surr)	91		75 - 121

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH45**

Lab Sample ID: 280-14664-1
Client Matrix: Solid

% Moisture: 2.9

Date Sampled: 04/14/2011 1010
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4552.D
Dilution:	1.0			Initial Weight/Volume:	4.356 g
Analysis Date:	04/19/2011 1316			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

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: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH46**

Lab Sample ID: 280-14664-2
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/14/2011 1040
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4555.D
Dilution:	1.0			Initial Weight/Volume:	4.675 g
Analysis Date:	04/19/2011 1419			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		6.0	U	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)		2.0	U	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		0.74	U	0.74	5.5
2-Hexanone		5.4	U	5.4	22
Methylene Chloride		2.5	J B	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)	81		58 - 140
Toluene-d8 (Surr)	99		80 - 126
4-Bromofluorobenzene (Surr)	101		76 - 127
Dibromofluoromethane (Surr)	91		75 - 121

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH46**

Lab Sample ID: 280-14664-2
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/14/2011 1040
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4555.D
Dilution:	1.0			Initial Weight/Volume:	4.675 g
Analysis Date:	04/19/2011 1419			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Tentatively Identified Compound		None	
71-36-3	n-Butanol	8.10	32	J N J

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH47**

Lab Sample ID: 280-14664-3
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 04/14/2011 1050
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4556.D
Dilution:	1.0			Initial Weight/Volume:	5.42 g
Analysis Date:	04/19/2011 1441			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.1	U	5.1	19
Benzene		0.45	U	0.45	4.8
Bromodichloromethane		0.21	U	0.21	4.8
Bromoform		0.22	U	0.22	4.8
Bromomethane		0.48	U	0.48	9.6
2-Butanone (MEK)		1.8	U	1.8	9.6
Carbon disulfide		0.40	U	0.40	4.8
Carbon tetrachloride		0.60	U	0.60	4.8
Chlorobenzene		0.52	U	0.52	4.8
Dibromochloromethane		0.55	U	0.55	4.8
Chloroethane		0.85	U	0.85	9.6
Chloroform		0.28	U	0.28	4.8
Chloromethane		0.74	U	0.74	9.6
1,1-Dichloroethane		0.20	U	0.20	4.8
1,2-Dichloroethane		0.67	U	0.67	4.8
1,1-Dichloroethene		0.56	U	0.56	4.8
1,2-Dichloroethene, Total		0.37	U	0.37	4.8
1,2-Dichloropropane		0.53	U	0.53	4.8
cis-1,3-Dichloropropene		1.2	U	1.2	4.8
trans-1,3-Dichloropropene		0.64	U	0.64	4.8
Ethylbenzene		0.64	U	0.64	4.8
2-Hexanone		4.7	U	4.7	19
Methylene Chloride		2.5	J B	0.72	4.8
4-Methyl-2-pentanone (MIBK)		4.2	U	4.2	9.6
Styrene		0.60	U	0.60	4.8
1,1,2,2-Tetrachloroethane		0.58	U	0.58	4.8
Tetrachloroethene		0.56	U	0.56	4.8
Toluene		0.66	U	0.66	4.8
1,1,1-Trichloroethane		0.50	U	0.50	4.8
1,1,2-Trichloroethane		0.84	U	0.84	4.8
Trichloroethene		0.22	U	0.22	4.8
Vinyl chloride		1.3	U	1.3	4.8
Xylenes, Total		0.58	U	0.58	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95		58 - 140
Toluene-d8 (Surr)	114		80 - 126
4-Bromofluorobenzene (Surr)	123		76 - 127
Dibromofluoromethane (Surr)	105		75 - 121

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH47**

Lab Sample ID: 280-14664-3
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 04/14/2011 1050
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4556.D
Dilution:	1.0			Initial Weight/Volume:	5.42 g
Analysis Date:	04/19/2011 1441			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

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: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH48**

Lab Sample ID: 280-14664-4
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 04/14/2011 1055
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4557.D
Dilution:	1.0			Initial Weight/Volume:	5.071 g
Analysis Date:	04/19/2011 1502			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.5	U	5.5	20
Benzene		0.48	U	0.48	5.1
Bromodichloromethane		0.23	U	0.23	5.1
Bromoform		0.24	U	0.24	5.1
Bromomethane		0.51	U	0.51	10
2-Butanone (MEK)		1.9	U	1.9	10
Carbon disulfide		0.43	U	0.43	5.1
Carbon tetrachloride		0.64	U	0.64	5.1
Chlorobenzene		0.55	U	0.55	5.1
Dibromochloromethane		0.58	U	0.58	5.1
Chloroethane		0.91	U	0.91	10
Chloroform		0.30	U	0.30	5.1
Chloromethane		0.79	U	0.79	10
1,1-Dichloroethane		0.21	U	0.21	5.1
1,2-Dichloroethane		0.72	U	0.72	5.1
1,1-Dichloroethene		0.60	U	0.60	5.1
1,2-Dichloroethene, Total		0.40	U	0.40	5.1
1,2-Dichloropropane		0.56	U	0.56	5.1
cis-1,3-Dichloropropene		1.3	U	1.3	5.1
trans-1,3-Dichloropropene		0.69	U	0.69	5.1
Ethylbenzene		0.69	U	0.69	5.1
2-Hexanone		5.0	U	5.0	20
Methylene Chloride		2.4	J B	0.77	5.1
4-Methyl-2-pentanone (MIBK)		4.5	U	4.5	10
Styrene		0.64	U	0.64	5.1
1,1,2,2-Tetrachloroethane		0.62	U	0.62	5.1
Tetrachloroethene		0.60	U	0.60	5.1
Toluene		0.71	U	0.71	5.1
1,1,1-Trichloroethane		0.53	U	0.53	5.1
1,1,2-Trichloroethane		0.90	U	0.90	5.1
Trichloroethene		0.24	U	0.24	5.1
Vinyl chloride		1.4	U	1.4	5.1
Xylenes, Total		0.62	U	0.62	5.1

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84		58 - 140
Toluene-d8 (Surr)	99		80 - 126
4-Bromofluorobenzene (Surr)	96		76 - 127
Dibromofluoromethane (Surr)	93		75 - 121

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH48**

Lab Sample ID: 280-14664-4
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 04/14/2011 1055
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4557.D
Dilution:	1.0			Initial Weight/Volume:	5.071 g
Analysis Date:	04/19/2011 1502			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

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: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH49**

Lab Sample ID: 280-14664-5
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 04/14/2011 1100
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63656	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4593.D
Dilution:	1.0			Initial Weight/Volume:	5.801 g
Analysis Date:	04/20/2011 2226			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		4.9	U	4.9	18
Benzene		0.42	U T	0.42	4.5
Bromodichloromethane		0.20	U	0.20	4.5
Bromoform		0.21	U	0.21	4.5
Bromomethane		0.45	U	0.45	9.0
2-Butanone (MEK)		1.7	U	1.7	9.0
Carbon disulfide		0.38	U	0.38	4.5
Carbon tetrachloride		0.57	U	0.57	4.5
Chlorobenzene		0.49	U T	0.49	4.5
Dibromochloromethane		0.51	U	0.51	4.5
Chloroethane		0.80	U	0.80	9.0
Chloroform		0.26	U T	0.26	4.5
Chloromethane		0.69	U	0.69	9.0
1,1-Dichloroethane		0.19	U T	0.19	4.5
1,2-Dichloroethane		0.63	U	0.63	4.5
1,1-Dichloroethene		0.53	U	0.53	4.5
1,2-Dichloroethene, Total		0.35	U T	0.35	4.5
1,2-Dichloropropane		0.50	U T	0.50	4.5
cis-1,3-Dichloropropene		1.2	U	1.2	4.5
trans-1,3-Dichloropropene		0.60	U	0.60	4.5
Ethylbenzene		0.60	U T	0.60	4.5
2-Hexanone		4.4	U	4.4	18
Methylene Chloride		2.1	J T B	0.68	4.5
4-Methyl-2-pentanone (MIBK)		3.9	U	3.9	9.0
Styrene		0.57	U	0.57	4.5
1,1,2,2-Tetrachloroethane		0.55	U	0.55	4.5
Tetrachloroethene		0.53	U	0.53	4.5
Toluene		0.62	U	0.62	4.5
1,1,1-Trichloroethane		0.47	U	0.47	4.5
1,1,2-Trichloroethane		0.79	U	0.79	4.5
Trichloroethene		0.21	U T	0.21	4.5
Vinyl chloride		1.2	U	1.2	4.5
Xylenes, Total		0.55	U	0.55	4.5

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	83		58 - 140
Toluene-d8 (Surr)	95		80 - 126
4-Bromofluorobenzene (Surr)	98		76 - 127
Dibromofluoromethane (Surr)	92		75 - 121

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH49**

Lab Sample ID: 280-14664-5
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 04/14/2011 1100
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63656	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4593.D
Dilution:	1.0			Initial Weight/Volume:	5.801 g
Analysis Date:	04/20/2011 2226			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	4.42	5.1	N J

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH50**

Lab Sample ID: 280-14664-6
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 04/14/2011 1105
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63656	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4596.D
Dilution:	1.0			Initial Weight/Volume:	2.373 g
Analysis Date:	04/20/2011 2330			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		12	U	12	44
Benzene		1.0	U	1.0	11
Bromodichloromethane		0.48	U	0.48	11
Bromoform		0.51	U	0.51	11
Bromomethane		1.1	U	1.1	22
2-Butanone (MEK)		4.0	U	4.0	22
Carbon disulfide		0.93	U	0.93	11
Carbon tetrachloride		1.4	U	1.4	11
Chlorobenzene		1.2	U	1.2	11
Dibromochloromethane		1.3	U	1.3	11
Chloroethane		2.0	U	2.0	22
Chloroform		0.64	U	0.64	11
Chloromethane		1.7	U	1.7	22
1,1-Dichloroethane		0.46	U	0.46	11
1,2-Dichloroethane		1.5	U	1.5	11
1,1-Dichloroethene		1.3	U	1.3	11
1,2-Dichloroethene, Total		0.86	U	0.86	11
1,2-Dichloropropane		1.2	U	1.2	11
cis-1,3-Dichloropropene		2.8	U	2.8	11
trans-1,3-Dichloropropene		1.5	U	1.5	11
Ethylbenzene		1.5	U	1.5	11
2-Hexanone		11	U	11	44
Methylene Chloride		5.2	J B	1.7	11
4-Methyl-2-pentanone (MIBK)		9.6	U	9.6	22
Styrene		1.4	U	1.4	11
1,1,2,2-Tetrachloroethane		1.3	U	1.3	11
Tetrachloroethene		1.3	U	1.3	11
Toluene		1.5	U	1.5	11
1,1,1-Trichloroethane		1.1	U	1.1	11
1,1,2-Trichloroethane		1.9	U	1.9	11
Trichloroethene		0.51	U	0.51	11
Vinyl chloride		3.0	U	3.0	11
Xylenes, Total		1.3	U	1.3	11

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	79		58 - 140
Toluene-d8 (Surr)	95		80 - 126
4-Bromofluorobenzene (Surr)	91		76 - 127
Dibromofluoromethane (Surr)	90		75 - 121

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH50**

Lab Sample ID: 280-14664-6
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 04/14/2011 1105
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63656	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4596.D
Dilution:	1.0			Initial Weight/Volume:	2.373 g
Analysis Date:	04/20/2011 2330			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	4.30	11	N J

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH51**

Lab Sample ID: 280-14664-7
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 04/14/2011 1110
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63656	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4597.D
Dilution:	1.0			Initial Weight/Volume:	5.448 g
Analysis Date:	04/20/2011 2351			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.1	U	5.1	19
Benzene		0.45	U	0.45	4.8
Bromodichloromethane		0.21	U	0.21	4.8
Bromoform		0.22	U	0.22	4.8
Bromomethane		0.48	U	0.48	9.5
2-Butanone (MEK)		1.7	U	1.7	9.5
Carbon disulfide		0.40	U	0.40	4.8
Carbon tetrachloride		0.60	U	0.60	4.8
Chlorobenzene		0.52	U	0.52	4.8
Dibromochloromethane		0.54	U	0.54	4.8
Chloroethane		0.85	U	0.85	9.5
Chloroform		0.28	U	0.28	4.8
Chloromethane		0.73	U	0.73	9.5
1,1-Dichloroethane		0.20	U	0.20	4.8
1,2-Dichloroethane		0.67	U	0.67	4.8
1,1-Dichloroethene		0.56	U	0.56	4.8
1,2-Dichloroethene, Total		0.37	U	0.37	4.8
1,2-Dichloropropane		0.52	U	0.52	4.8
cis-1,3-Dichloropropene		1.2	U	1.2	4.8
trans-1,3-Dichloropropene		0.64	U	0.64	4.8
Ethylbenzene		0.64	U	0.64	4.8
2-Hexanone		4.7	U	4.7	19
Methylene Chloride		2.3	J B	0.72	4.8
4-Methyl-2-pentanone (MIBK)		4.2	U	4.2	9.5
Styrene		0.60	U	0.60	4.8
1,1,2,2-Tetrachloroethane		0.58	U	0.58	4.8
Tetrachloroethene		0.56	U	0.56	4.8
Toluene		0.66	U	0.66	4.8
1,1,1-Trichloroethane		0.50	U	0.50	4.8
1,1,2-Trichloroethane		0.84	U	0.84	4.8
Trichloroethene		0.22	U	0.22	4.8
Vinyl chloride		1.3	U	1.3	4.8
Xylenes, Total		0.58	U	0.58	4.8

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86		58 - 140
Toluene-d8 (Surr)	98		80 - 126
4-Bromofluorobenzene (Surr)	97		76 - 127
Dibromofluoromethane (Surr)	95		75 - 121

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH51**

Lab Sample ID: 280-14664-7
Client Matrix: Solid

% Moisture: 3.8

Date Sampled: 04/14/2011 1110
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63656	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4597.D
Dilution:	1.0			Initial Weight/Volume:	5.448 g
Analysis Date:	04/20/2011 2351			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

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: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH52**

Lab Sample ID: 280-14664-8
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/14/2011 1120
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4561.D
Dilution:	1.0			Initial Weight/Volume:	5.953 g
Analysis Date:	04/19/2011 1626			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		4.7	U	4.7	17
Benzene		0.41	U	0.41	4.4
Bromodichloromethane		0.19	U	0.19	4.4
Bromoform		0.20	U	0.20	4.4
Bromomethane		0.44	U	0.44	8.7
2-Butanone (MEK)		1.6	U	1.6	8.7
Carbon disulfide		0.37	U	0.37	4.4
Carbon tetrachloride		0.55	U	0.55	4.4
Chlorobenzene		0.47	U	0.47	4.4
Dibromochloromethane		0.50	U	0.50	4.4
Chloroethane		0.77	U	0.77	8.7
Chloroform		0.25	U	0.25	4.4
Chloromethane		0.67	U	0.67	8.7
1,1-Dichloroethane		0.18	U	0.18	4.4
1,2-Dichloroethane		0.61	U	0.61	4.4
1,1-Dichloroethene		0.51	U	0.51	4.4
1,2-Dichloroethene, Total		0.34	U	0.34	4.4
1,2-Dichloropropane		0.48	U	0.48	4.4
cis-1,3-Dichloropropene		1.1	U	1.1	4.4
trans-1,3-Dichloropropene		0.58	U	0.58	4.4
Ethylbenzene		0.58	U	0.58	4.4
2-Hexanone		4.3	U	4.3	17
Methylene Chloride		2.0	J B	0.65	4.4
4-Methyl-2-pentanone (MIBK)		3.8	U	3.8	8.7
Styrene		0.55	U	0.55	4.4
1,1,2,2-Tetrachloroethane		0.53	U	0.53	4.4
Tetrachloroethene		0.51	U	0.51	4.4
Toluene		0.60	U	0.60	4.4
1,1,1-Trichloroethane		0.45	U	0.45	4.4
1,1,2-Trichloroethane		0.77	U	0.77	4.4
Trichloroethene		0.20	U	0.20	4.4
Vinyl chloride		1.2	U	1.2	4.4
Xylenes, Total		0.53	U	0.53	4.4

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87		58 - 140
Toluene-d8 (Surr)	95		80 - 126
4-Bromofluorobenzene (Surr)	91		76 - 127
Dibromofluoromethane (Surr)	94		75 - 121

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH52**

Lab Sample ID: 280-14664-8
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/14/2011 1120
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4561.D
Dilution:	1.0			Initial Weight/Volume:	5.953 g
Analysis Date:	04/19/2011 1626			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

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: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH53**

Lab Sample ID: 280-14664-9
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/14/2011 1130
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4562.D
Dilution:	1.0			Initial Weight/Volume:	4.901 g
Analysis Date:	04/19/2011 1647			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.8	U	5.8	21
Benzene		0.50	U	0.50	5.3
Bromodichloromethane		0.24	U	0.24	5.3
Bromoform		0.25	U	0.25	5.3
Bromomethane		0.53	U	0.53	11
2-Butanone (MEK)		2.0	U	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		0.72	U	0.72	5.3
2-Hexanone		5.2	U	5.2	21
Methylene Chloride		2.8	J B	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		0.65	U	0.65	5.3

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87		58 - 140
Toluene-d8 (Surr)	100		80 - 126
4-Bromofluorobenzene (Surr)	101		76 - 127
Dibromofluoromethane (Surr)	94		75 - 121

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH53**

Lab Sample ID: 280-14664-9
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/14/2011 1130
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4562.D
Dilution:	1.0			Initial Weight/Volume:	4.901 g
Analysis Date:	04/19/2011 1647			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

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: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH54**

Lab Sample ID: 280-14664-10
Client Matrix: Solid
% Moisture: 4.1

Date Sampled: 04/14/2011 1140
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4563.D
Dilution:	1.0			Initial Weight/Volume:	5.286 g
Analysis Date:	04/19/2011 1708			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.3	U	5.3	20
Benzene		0.46	U	0.46	4.9
Bromodichloromethane		0.22	U	0.22	4.9
Bromoform		0.23	U	0.23	4.9
Bromomethane		0.49	U	0.49	9.9
2-Butanone (MEK)		1.8	U	1.8	9.9
Carbon disulfide		0.41	U	0.41	4.9
Carbon tetrachloride		0.62	U	0.62	4.9
Chlorobenzene		0.53	U	0.53	4.9
Dibromochloromethane		0.56	U	0.56	4.9
Chloroethane		0.88	U	0.88	9.9
Chloroform		0.29	U	0.29	4.9
Chloromethane		0.76	U	0.76	9.9
1,1-Dichloroethane		0.21	U	0.21	4.9
1,2-Dichloroethane		0.69	U	0.69	4.9
1,1-Dichloroethene		0.58	U	0.58	4.9
1,2-Dichloroethene, Total		0.38	U	0.38	4.9
1,2-Dichloropropane		0.54	U	0.54	4.9
cis-1,3-Dichloropropene		1.3	U	1.3	4.9
trans-1,3-Dichloropropene		0.66	U	0.66	4.9
Ethylbenzene		0.66	U	0.66	4.9
2-Hexanone		4.8	U	4.8	20
Methylene Chloride		2.4	J B	0.74	4.9
4-Methyl-2-pentanone (MIBK)		4.3	U	4.3	9.9
Styrene		0.62	U	0.62	4.9
1,1,2,2-Tetrachloroethane		0.60	U	0.60	4.9
Tetrachloroethene		0.58	U	0.58	4.9
Toluene		0.68	U	0.68	4.9
1,1,1-Trichloroethane		0.51	U	0.51	4.9
1,1,2-Trichloroethane		0.87	U	0.87	4.9
Trichloroethene		0.23	U	0.23	4.9
Vinyl chloride		1.3	U	1.3	4.9
Xylenes, Total		0.60	U	0.60	4.9

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89		58 - 140
Toluene-d8 (Surr)	106		80 - 126
4-Bromofluorobenzene (Surr)	104		76 - 127
Dibromofluoromethane (Surr)	99		75 - 121

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH54**

Lab Sample ID: 280-14664-10
Client Matrix: Solid
% Moisture: 4.1

Date Sampled: 04/14/2011 1140
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4563.D
Dilution:	1.0			Initial Weight/Volume:	5.286 g
Analysis Date:	04/19/2011 1708			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

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: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH55**

Lab Sample ID: 280-14664-11
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 04/14/2011 1145
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4564.D
Dilution:	1.0			Initial Weight/Volume:	5.233 g
Analysis Date:	04/19/2011 1730			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.3	U	5.3	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	9.9
2-Butanone (MEK)		1.8	U	1.8	9.9
Carbon disulfide		0.42	U	0.42	5.0
Carbon tetrachloride		0.62	U	0.62	5.0
Chlorobenzene		0.54	U	0.54	5.0
Dibromochloromethane		0.57	U	0.57	5.0
Chloroethane		0.88	U	0.88	9.9
Chloroform		0.29	U	0.29	5.0
Chloromethane		0.76	U	0.76	9.9
1,1-Dichloroethane		0.21	U	0.21	5.0
1,2-Dichloroethane		0.69	U	0.69	5.0
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		0.66	U	0.66	5.0
Ethylbenzene		0.66	U	0.66	5.0
2-Hexanone		4.8	U	4.8	20
Methylene Chloride		1.9	J B	0.74	5.0
4-Methyl-2-pentanone (MIBK)		4.3	U	4.3	9.9
Styrene		0.62	U	0.62	5.0
1,1,2,2-Tetrachloroethane		0.60	U	0.60	5.0
Tetrachloroethene		0.59	U	0.59	5.0
Toluene		0.68	U	0.68	5.0
1,1,1-Trichloroethane		0.52	U	0.52	5.0
1,1,2-Trichloroethane		0.87	U	0.87	5.0
Trichloroethene		0.23	U	0.23	5.0
Vinyl chloride		1.3	U	1.3	5.0
Xylenes, Total		0.60	U	0.60	5.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87		58 - 140
Toluene-d8 (Surr)	96		80 - 126
4-Bromofluorobenzene (Surr)	90		76 - 127
Dibromofluoromethane (Surr)	95		75 - 121

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH55**

Lab Sample ID: 280-14664-11
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 04/14/2011 1145
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4564.D
Dilution:	1.0			Initial Weight/Volume:	5.233 g
Analysis Date:	04/19/2011 1730			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

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: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH56**

Lab Sample ID: 280-14664-12
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 04/14/2011 1150
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4565.D
Dilution:	1.0			Initial Weight/Volume:	5.061 g
Analysis Date:	04/19/2011 1751			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.5	U	5.5	20
Benzene		0.48	U	0.48	5.1
Bromodichloromethane		0.23	U	0.23	5.1
Bromoform		0.24	U	0.24	5.1
Bromomethane		0.51	U	0.51	10
2-Butanone (MEK)		1.9	U	1.9	10
Carbon disulfide		0.43	U	0.43	5.1
Carbon tetrachloride		0.64	U	0.64	5.1
Chlorobenzene		0.55	U	0.55	5.1
Dibromochloromethane		0.58	U	0.58	5.1
Chloroethane		0.91	U	0.91	10
Chloroform		0.30	U	0.30	5.1
Chloromethane		0.79	U	0.79	10
1,1-Dichloroethane		0.21	U	0.21	5.1
1,2-Dichloroethane		0.72	U	0.72	5.1
1,1-Dichloroethene		0.60	U	0.60	5.1
1,2-Dichloroethene, Total		0.40	U	0.40	5.1
1,2-Dichloropropane		0.56	U	0.56	5.1
cis-1,3-Dichloropropene		1.3	U	1.3	5.1
trans-1,3-Dichloropropene		0.69	U	0.69	5.1
Ethylbenzene		0.69	U	0.69	5.1
2-Hexanone		5.0	U	5.0	20
Methylene Chloride		2.5	J B	0.77	5.1
4-Methyl-2-pentanone (MIBK)		4.5	U	4.5	10
Styrene		0.64	U	0.64	5.1
1,1,2,2-Tetrachloroethane		0.62	U	0.62	5.1
Tetrachloroethene		0.60	U	0.60	5.1
Toluene		0.71	U	0.71	5.1
1,1,1-Trichloroethane		0.53	U	0.53	5.1
1,1,2-Trichloroethane		0.90	U	0.90	5.1
Trichloroethene		0.24	U	0.24	5.1
Vinyl chloride		1.4	U	1.4	5.1
Xylenes, Total		0.62	U	0.62	5.1

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		58 - 140
Toluene-d8 (Surr)	112		80 - 126
4-Bromofluorobenzene (Surr)	106		76 - 127
Dibromofluoromethane (Surr)	113		75 - 121

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH56**

Lab Sample ID: 280-14664-12
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 04/14/2011 1150
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4565.D
Dilution:	1.0			Initial Weight/Volume:	5.061 g
Analysis Date:	04/19/2011 1751			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

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: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH57**

Lab Sample ID: 280-14664-13
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/14/2011 1130
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4566.D
Dilution:	1.0			Initial Weight/Volume:	5.284 g
Analysis Date:	04/19/2011 1812			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acetone		5.3	U	5.3	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	9.9
2-Butanone (MEK)		1.8	U	1.8	9.9
Carbon disulfide		0.42	U	0.42	5.0
Carbon tetrachloride		0.62	U	0.62	5.0
Chlorobenzene		0.54	U	0.54	5.0
Dibromochloromethane		0.57	U	0.57	5.0
Chloroethane		0.88	U	0.88	9.9
Chloroform		0.29	U	0.29	5.0
Chloromethane		0.76	U	0.76	9.9
1,1-Dichloroethane		0.21	U	0.21	5.0
1,2-Dichloroethane		0.69	U	0.69	5.0
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		0.66	U	0.66	5.0
Ethylbenzene		0.66	U	0.66	5.0
2-Hexanone		4.9	U	4.9	20
Methylene Chloride		2.5	J B	0.74	5.0
4-Methyl-2-pentanone (MIBK)		4.3	U	4.3	9.9
Styrene		0.62	U	0.62	5.0
1,1,2,2-Tetrachloroethane		0.61	U	0.61	5.0
Tetrachloroethene		0.59	U	0.59	5.0
Toluene		0.68	U	0.68	5.0
1,1,1-Trichloroethane		0.52	U	0.52	5.0
1,1,2-Trichloroethane		0.87	U	0.87	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	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	82		58 - 140
Toluene-d8 (Surr)	99		80 - 126
4-Bromofluorobenzene (Surr)	99		76 - 127
Dibromofluoromethane (Surr)	91		75 - 121

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH57**

Lab Sample ID: 280-14664-13
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/14/2011 1130
Date Received: 04/15/2011 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Prep Method:	5035	Prep Batch:	280-62597	Lab File ID:	G4566.D
Dilution:	1.0			Initial Weight/Volume:	5.284 g
Analysis Date:	04/19/2011 1812			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				

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: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH45**

Lab Sample ID: 280-14664-1
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/14/2011 1010
Date Received: 04/15/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-64300	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-63131	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/26/2011 1505			Injection Volume:	1 uL
Prep Date:	04/20/2011 1111			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.2	U	8.2	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.8	U	4.8	10
Aroclor 1248		4.8	U	4.8	10
Aroclor 1254		48		2.7	10
Aroclor 1260		37		2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	84		59 - 130
Tetrachloro-m-xylene	103		53 - 128

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH46**

Lab Sample ID: 280-14664-2
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/14/2011 1040
Date Received: 04/15/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-64300	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-63131	Initial Weight/Volume:	31.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/26/2011 1537			Injection Volume:	1 uL
Prep Date:	04/20/2011 1111			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	9.9
Aroclor 1221		8.0	U	8.0	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		50		2.6	9.9
Aroclor 1260		38		2.6	9.9

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	79		59 - 130
Tetrachloro-m-xylene	103		53 - 128

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH47**

Lab Sample ID: 280-14664-3
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 04/14/2011 1050
Date Received: 04/15/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-64300	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-63131	Initial Weight/Volume:	31.4 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/26/2011 1608			Injection Volume:	1 uL
Prep Date:	04/20/2011 1111			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.7	U	2.7	9.9
Aroclor 1221		8.0	U	8.0	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		55		2.6	9.9
Aroclor 1260		31		2.6	9.9

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	82		59 - 130
Tetrachloro-m-xylene	107		53 - 128

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH48**

Lab Sample ID: 280-14664-4
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 04/14/2011 1055
Date Received: 04/15/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-64300	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-63131	Initial Weight/Volume:	30.0 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/26/2011 1640			Injection Volume:	1 uL
Prep Date:	04/20/2011 1111			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	10
Aroclor 1221		8.3	U	8.3	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.8	U	4.8	10
Aroclor 1248		4.8	U	4.8	10
Aroclor 1254		43		2.7	10
Aroclor 1260		30		2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	81		59 - 130
Tetrachloro-m-xylene	104		53 - 128

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH49**

Lab Sample ID: 280-14664-5
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 04/14/2011 1100
Date Received: 04/15/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-64300	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-63131	Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/26/2011 1712			Injection Volume:	1 uL
Prep Date:	04/20/2011 1111			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	10
Aroclor 1221		8.3	U	8.3	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.8	U	4.8	10
Aroclor 1248		4.8	U	4.8	10
Aroclor 1254		55		2.7	10
Aroclor 1260		38		2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	37	*	59 - 130
Tetrachloro-m-xylene	53		53 - 128

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH50**

Lab Sample ID: 280-14664-6
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 04/14/2011 1105
Date Received: 04/15/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-64300	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-63131	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/26/2011 1744			Injection Volume:	1 uL
Prep Date:	04/20/2011 1111			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.8	U	2.8	10
Aroclor 1221		8.2	U	8.2	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.8	U	4.8	10
Aroclor 1248		4.8	U	4.8	10
Aroclor 1254		57		2.7	10
Aroclor 1260		40		2.7	10

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

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH51**

Lab Sample ID: 280-14664-7
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 04/14/2011 1110
Date Received: 04/15/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-64300	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-63131	Initial Weight/Volume:	30.3 g
Dilution:	4.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/26/2011 1816			Injection Volume:	1 uL
Prep Date:	04/20/2011 1111			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		11	U D	11	41
Aroclor 1221		33	U D	33	68
Aroclor 1232		8.2	U D	8.2	41
Aroclor 1242		19	U D	19	41
Aroclor 1248		19	U D	19	41
Aroclor 1254		120	D	11	41
Aroclor 1260		84	D	11	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	37	D	59 - 130
Tetrachloro-m-xylene	80	D	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH52**

Lab Sample ID: 280-14664-8
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/14/2011 1120
Date Received: 04/15/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-64300	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-63131	Initial Weight/Volume:	30.8 g
Dilution:	2.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/26/2011 1919			Injection Volume:	1 uL
Prep Date:	04/20/2011 1111			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		5.6	U D	5.6	20
Aroclor 1221		16	U D	16	33
Aroclor 1232		4.0	U D	4.0	20
Aroclor 1242		9.4	U D	9.4	20
Aroclor 1248		9.4	U D	9.4	20
Aroclor 1254		110	D P	5.2	20
Aroclor 1260		94	D	5.2	20

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	35	*	59 - 130
Tetrachloro-m-xylene	54		53 - 128

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH53**

Lab Sample ID: 280-14664-9
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/14/2011 1130
Date Received: 04/15/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-64300	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-63131	Initial Weight/Volume:	30.3 g
Dilution:	10			Final Weight/Volume:	5000 uL
Analysis Date:	04/26/2011 1951			Injection Volume:	1 uL
Prep Date:	04/20/2011 1111			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		29	U D	29	100
Aroclor 1221		83	U D	83	170
Aroclor 1232		21	U D	21	100
Aroclor 1242		48	U D	48	100
Aroclor 1248		48	U D	48	100
Aroclor 1254		760	D P	27	100
Aroclor 1260		770	D	27	100

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	33	D	59 - 130
Tetrachloro-m-xylene	90	D	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH54**

Lab Sample ID: 280-14664-10
Client Matrix: Solid
% Moisture: 4.1

Date Sampled: 04/14/2011 1140
Date Received: 04/15/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-64300	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-63131	Initial Weight/Volume:	31.2 g
Dilution:	4.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/26/2011 2023			Injection Volume:	1 uL
Prep Date:	04/20/2011 1111			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		11	U D	11	40
Aroclor 1221		32	U D	32	66
Aroclor 1232		8.0	U D	8.0	40
Aroclor 1242		19	U D	19	40
Aroclor 1248		19	U D	19	40
Aroclor 1254		200	D	10	40
Aroclor 1260		150	D	10	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	57	D	59 - 130
Tetrachloro-m-xylene	88	D	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH55**

Lab Sample ID: 280-14664-11
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 04/14/2011 1145
Date Received: 04/15/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-64300	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-63131	Initial Weight/Volume:	30.9 g
Dilution:	4.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/26/2011 2158			Injection Volume:	1 uL
Prep Date:	04/20/2011 1111			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		11	U D	11	40
Aroclor 1221		32	U D	32	67
Aroclor 1232		8.1	U D	8.1	40
Aroclor 1242		19	U D	19	40
Aroclor 1248		19	U D	19	40
Aroclor 1254		210	D P	10	40
Aroclor 1260		240	D	10	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	51	D	59 - 130
Tetrachloro-m-xylene	80	D	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH56**

Lab Sample ID: 280-14664-12
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 04/14/2011 1150
Date Received: 04/15/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-64300	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-63131	Initial Weight/Volume:	31.5 g
Dilution:	5.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/26/2011 2230			Injection Volume:	1 uL
Prep Date:	04/20/2011 1111			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		14	U D	14	49
Aroclor 1221		40	U D	40	81
Aroclor 1232		9.9	U D	9.9	49
Aroclor 1242		23	U D	23	49
Aroclor 1248		23	U D	23	49
Aroclor 1254		320	D P	13	49
Aroclor 1260		450	D	13	49

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	90	D	59 - 130
Tetrachloro-m-xylene	109	D	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH57**

Lab Sample ID: 280-14664-13
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/14/2011 1130
Date Received: 04/15/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-64300	Instrument ID:	GCS_W
Prep Method:	3550C	Prep Batch:	280-63131	Initial Weight/Volume:	31.4 g
Dilution:	10			Final Weight/Volume:	5000 uL
Analysis Date:	04/26/2011 2302			Injection Volume:	1 uL
Prep Date:	04/20/2011 1111			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		28	U D	28	100
Aroclor 1221		80	U D	80	170
Aroclor 1232		20	U D	20	100
Aroclor 1242		47	U D	47	100
Aroclor 1248		47	U D	47	100
Aroclor 1254		510	D	26	100
Aroclor 1260		560	D	26	100

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	45	D	59 - 130
Tetrachloro-m-xylene	98	D	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH45**

Lab Sample ID: 280-14664-1
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/14/2011 1010
Date Received: 04/15/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-64330	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-63043	Lab File ID:	007F0701.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Analysis Date:	04/26/2011 1702			Final Weight/Volume:	1000 uL
Prep Date:	04/19/2011 2112			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		26000		1000	4100
C10-C28		8100		700	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	87		49 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH46**

Lab Sample ID: 280-14664-2
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/14/2011 1040
Date Received: 04/15/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-64330	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-63043	Lab File ID:	010F1001.D
Dilution:	1.0			Initial Weight/Volume:	32.7 g
Analysis Date:	04/26/2011 1842			Final Weight/Volume:	1000 uL
Prep Date:	04/19/2011 2112			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		37000		950	3800
C10-C28		9700		640	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	88		49 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH47**

Lab Sample ID: 280-14664-3
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 04/14/2011 1050
Date Received: 04/15/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-64330	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-63043	Lab File ID:	011F1101.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2011 1916			Final Weight/Volume:	1000 uL
Prep Date:	04/19/2011 2112			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		44000		1000	4100
C10-C28		12000		700	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	87		49 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH48**

Lab Sample ID: 280-14664-4
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 04/14/2011 1055
Date Received: 04/15/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-64330	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-63043	Lab File ID:	012F1201.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	04/26/2011 1950			Final Weight/Volume:	1000 uL
Prep Date:	04/19/2011 2112			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		65000		1000	4000
C10-C28		17000		680	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	85		49 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH49**

Lab Sample ID: 280-14664-5
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 04/14/2011 1100
Date Received: 04/15/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-64330	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-63043	Lab File ID:	013F1301.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Analysis Date:	04/26/2011 2023			Final Weight/Volume:	1000 uL
Prep Date:	04/19/2011 2112			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		150000		990	4000
C10-C28		47000		670	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	92		49 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH50**

Lab Sample ID: 280-14664-6
Client Matrix: Solid

% Moisture: 4.4

Date Sampled: 04/14/2011 1105
Date Received: 04/15/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-64330	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-63043	Lab File ID:	014F1401.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Analysis Date:	04/26/2011 2057			Final Weight/Volume:	1000 uL
Prep Date:	04/19/2011 2112			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		66000		1000	4100
C10-C28		20000		700	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	87		49 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH51**

Lab Sample ID: 280-14664-7
Client Matrix: Solid

% Moisture: 3.8

Date Sampled: 04/14/2011 1110
Date Received: 04/15/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-64330	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-63043	Lab File ID:	016F1601.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	04/26/2011 2204			Final Weight/Volume:	5000 uL
Prep Date:	04/19/2011 2112			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		370000		4900	20000
C10-C28		100000		3300	20000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	88		49 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH52**

Lab Sample ID: 280-14664-8
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/14/2011 1120
Date Received: 04/15/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-64330	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-63043	Lab File ID:	017F1701.D
Dilution:	1.0			Initial Weight/Volume:	32.4 g
Analysis Date:	04/26/2011 2238			Final Weight/Volume:	1000 uL
Prep Date:	04/19/2011 2112			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		240000		960	3800
C10-C28		78000		650	3800

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	91		49 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH53**

Lab Sample ID: 280-14664-9
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/14/2011 1130
Date Received: 04/15/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-64330	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-63043	Lab File ID:	018F1801.D
Dilution:	1.0			Initial Weight/Volume:	32.3 g
Analysis Date:	04/26/2011 2311			Final Weight/Volume:	1000 uL
Prep Date:	04/19/2011 2112			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		140000		970	3900
C10-C28		38000		660	3900

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	77		49 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH54**

Lab Sample ID: 280-14664-10
Client Matrix: Solid
% Moisture: 4.1

Date Sampled: 04/14/2011 1140
Date Received: 04/15/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-64330	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-63043	Lab File ID:	019F1901.D
Dilution:	1.0			Initial Weight/Volume:	31.2 g
Analysis Date:	04/26/2011 2345			Final Weight/Volume:	1000 uL
Prep Date:	04/19/2011 2112			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		75000		1000	4000
C10-C28		22000		680	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	82		49 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH55**

Lab Sample ID: 280-14664-11
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 04/14/2011 1145
Date Received: 04/15/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-64330	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-63043	Lab File ID:	020F2001.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	04/27/2011 0018			Final Weight/Volume:	1000 uL
Prep Date:	04/19/2011 2112			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		74000		1000	4100
C10-C28		18000		700	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	82		49 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH56**

Lab Sample ID: 280-14664-12
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 04/14/2011 1150
Date Received: 04/15/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-64330	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-63043	Lab File ID:	021F2101.D
Dilution:	1.0			Initial Weight/Volume:	31.0 g
Analysis Date:	04/27/2011 0051			Final Weight/Volume:	10000 uL
Prep Date:	04/19/2011 2112			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		83000		10000	40000
C10-C28		7200	J	6800	40000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	89		49 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH57**

Lab Sample ID: 280-14664-13
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/14/2011 1130
Date Received: 04/15/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-64330	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-63043	Lab File ID:	022F2201.D
Dilution:	1.0			Initial Weight/Volume:	32.4 g
Analysis Date:	04/27/2011 0125			Final Weight/Volume:	1000 uL
Prep Date:	04/19/2011 2112			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		110000		970	3900
C10-C28		33000		660	3900

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

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH45**

Lab Sample ID: 280-14664-1
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/14/2011 1010
Date Received: 04/15/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-63892	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-62984	Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/26/2011 0808			Injection Volume:	20 uL
Prep Date:	04/19/2011 1558			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.2	U	9.2	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		3.3	U	3.3	15
Benzo[a]pyrene		60	X	6.5	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.3	U	7.3	31
Benzo[k]fluoranthene		4.6	J X	4.0	15
Chrysene		18	J	4.9	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		27	J	13	41
Fluorene		5.4	U	5.4	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		32	J X	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	94		72 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH46**

Lab Sample ID: 280-14664-2
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/14/2011 1040
Date Received: 04/15/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-63892	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-62984	Initial Weight/Volume:	30.0 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/26/2011 0838			Injection Volume:	20 uL
Prep Date:	04/19/2011 1558			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.3	U	3.3	16
Benzo[a]pyrene		56		6.6	16
Benzo[b]fluoranthene		4.4	U	4.4	16
Benzo[g,h,i]perylene		7.5	U	7.5	31
Benzo[k]fluoranthene		4.1	U	4.1	16
Chrysene		14	J	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		18	J	13	41
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		15	J	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	95		72 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH47**

Lab Sample ID: 280-14664-3
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 04/14/2011 1050
Date Received: 04/15/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-63892	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-62984	Initial Weight/Volume:	31.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/26/2011 0909			Injection Volume:	20 uL
Prep Date:	04/19/2011 1558			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.0	U	9.0	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		56		6.4	15
Benzo[b]fluoranthene		25		4.2	15
Benzo[g,h,i]perylene		7.2	U	7.2	30
Benzo[k]fluoranthene		3.9	U	3.9	15
Chrysene		15	J	4.8	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		26	J	13	40
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	40
Pyrene		35	J	12	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	98		72 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH48**

Lab Sample ID: 280-14664-4
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 04/14/2011 1055
Date Received: 04/15/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-63892	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-62984	Initial Weight/Volume:	31.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/26/2011 0939			Injection Volume:	20 uL
Prep Date:	04/19/2011 1558			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.0	U	9.0	100
Anthracene		3.0	J X	3.0	20
Benzo[a]anthracene		8.2	J X	3.2	15
Benzo[a]pyrene		6.4	U	6.4	15
Benzo[b]fluoranthene		20		4.2	15
Benzo[g,h,i]perylene		7.2	U	7.2	30
Benzo[k]fluoranthene		3.9	U	3.9	15
Chrysene		17	J	4.8	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		34	J	13	40
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	100
Phenanthrene		17	J	12	40
Pyrene		32	J	12	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	96		72 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH49**

Lab Sample ID: 280-14664-5
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 04/14/2011 1100
Date Received: 04/15/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-63892	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-62984	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/26/2011 1010			Injection Volume:	20 uL
Prep Date:	04/19/2011 1558			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.4	U	9.4	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		22	X	3.3	16
Benzo[a]pyrene		120		6.7	16
Benzo[b]fluoranthene		4.4	U	4.4	16
Benzo[g,h,i]perylene		7.5	U	7.5	31
Benzo[k]fluoranthene		4.1	U	4.1	16
Chrysene		35	J	5.0	42
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		35	J X	14	42
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		13	U	13	31
Naphthalene		13	U	13	100
Phenanthrene		13	U	13	42
Pyrene		36	J	13	42

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	93		72 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH50**

Lab Sample ID: 280-14664-6
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 04/14/2011 1105
Date Received: 04/15/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-63892	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-62984	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/26/2011 1040			Injection Volume:	20 uL
Prep Date:	04/19/2011 1558			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.2	U	9.2	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		3.3	U	3.3	15
Benzo[a]pyrene		23	X	6.6	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		18	J	4.9	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		28	J	13	41
Fluorene		5.4	U	5.4	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		38	J	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	98		72 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH51**

Lab Sample ID: 280-14664-7
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 04/14/2011 1110
Date Received: 04/15/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-63892	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-62984	Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/26/2011 1111			Injection Volume:	20 uL
Prep Date:	04/19/2011 1558			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.1	U	9.1	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		6.5	U	6.5	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.3	U	7.3	30
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		130		4.9	41
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		250		13	41
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	100
Phenanthrene		72		12	41
Pyrene		260		12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	97		72 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH52**

Lab Sample ID: 280-14664-8
Client Matrix: Solid

% Moisture: 3.5

Date Sampled: 04/14/2011 1120
Date Received: 04/15/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-63892	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-62984	Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/26/2011 1141			Injection Volume:	20 uL
Prep Date:	04/19/2011 1558			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.1	U	9.1	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		230		6.5	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.3	U	7.3	30
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		51		4.9	41
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		88	X	13	41
Fluorene		5.4	U	5.4	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	100
Phenanthrene		34	J	12	41
Pyrene		75		12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	98		72 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH53**

Lab Sample ID: 280-14664-9
Client Matrix: Solid

% Moisture. 4.6

Date Sampled: 04/14/2011 1130
Date Received: 04/15/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-63892	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-62984	Initial Weight/Volume:	30.7 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/26/2011 1243			Injection Volume:	20 uL
Prep Date:	04/19/2011 1558			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.2	U	9.2	100
Anthracene		19	J X	3.1	20
Benzo[a]anthracene		120		3.3	15
Benzo[a]pyrene		180		6.6	15
Benzo[b]fluoranthene		96		4.3	15
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		84		5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		180		13	41
Fluorene		5.4	U	5.4	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		95		12	41
Pyrene		210		12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	102		72 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH54**

Lab Sample ID: 280-14664-10
Client Matrix: Solid
% Moisture: 4.1

Date Sampled: 04/14/2011 1140
Date Received: 04/15/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-63892	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-62984	Initial Weight/Volume:	31.5 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/26/2011 1313			Injection Volume:	20 uL
Prep Date:	04/19/2011 1558			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		9.9	U	9.9	99
Acenaphthylene		8.9	U	8.9	99
Anthracene		3.0	U	3.0	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		150		6.4	15
Benzo[b]fluoranthene		4.2	U	4.2	15
Benzo[g,h,i]perylene		7.2	U	7.2	30
Benzo[k]fluoranthene		3.9	U	3.9	15
Chrysene		40		4.8	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		35	J X	13	40
Fluorene		5.2	U	5.2	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	99
Phenanthrene		19	J	12	40
Pyrene		41		12	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	94		72 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH55**

Lab Sample ID: 280-14664-11
Client Matrix: Solid

% Moisture: 3.7

Date Sampled: 04/14/2011 1145
Date Received: 04/15/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-63892	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-62984	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/26/2011 1344			Injection Volume:	20 uL
Prep Date:	04/19/2011 1558			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		66		3.3	16
Benzo[a]pyrene		170	X	6.6	16
Benzo[b]fluoranthene		36	X	4.3	16
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		4.1	U	4.1	16
Chrysene		94		5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		110	X	13	41
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		40	J	12	41
Pyrene		140		12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	102		72 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH56**

Lab Sample ID: 280-14664-12
Client Matrix: Solid

% Moisture: 3.4

Date Sampled: 04/14/2011 1150
Date Received: 04/15/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-63892	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-62984	Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/26/2011 1414			Injection Volume:	20 uL
Prep Date:	04/19/2011 1558			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.0	U	9.0	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		35		3.2	15
Benzo[a]pyrene		130	X	6.4	15
Benzo[b]fluoranthene		4.2	U	4.2	15
Benzo[g,h,i]perylene		7.2	U	7.2	30
Benzo[k]fluoranthene		3.9	U	3.9	15
Chrysene		41	X	4.9	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		76		13	40
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	100
Phenanthrene		26	J X	12	40
Pyrene		92		12	40

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	101		72 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH57**

Lab Sample ID: 280-14664-13
Client Matrix: Solid

% Moisture: 4.6

Date Sampled: 04/14/2011 1130
Date Received: 04/15/2011 0930

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-63892	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-62984	Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/26/2011 1445			Injection Volume:	20 uL
Prep Date:	04/19/2011 1558			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		150		3.2	21
Benzo[a]anthracene		690		3.3	16
Benzo[a]pyrene		580		6.6	16
Benzo[b]fluoranthene		570	N	4.3	16
Benzo[g,h,i]perylene		250	X	7.4	31
Benzo[k]fluoranthene		280		4.1	16
Chrysene		650		5.0	41
Dibenzo(a,h)anthracene		180	X	11	31
Fluoranthene		1200	N	13	41
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		350		12	31
Naphthalene		12	U	12	100
Phenanthrene		310	N	12	41
Pyrene		1500	N	12	41

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	117	*	72 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH45**

Lab Sample ID: 280-14664-1
Client Matrix: Solid
% Moisture: 2.9

Date Sampled: 04/14/2011 1010
Date Received: 04/15/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-64275	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-62838	Lab File ID:	26b042611.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	04/26/2011 1800			Final Weight/Volume:	100 mL
Prep Date:	04/26/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5970		1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		2.0	M	0.63	0.96
Barium		135		0.073	0.48
Beryllium		0.088	B	0.032	0.19
Boron		7.3		0.94	1.9
Cadmium		0.10	B M	0.039	0.19
Calcium		6090		13.6	48.1
Chromium		12.0		0.056	0.19
Cobalt		6.0	X	0.096	0.96
Copper		27.4	M	0.21	0.96
Iron		14200		3.7	4.8
Lead		9.7		0.26	0.48
Magnesium		3510	X	3.6	19.2
Manganese		229		0.096	0.96
Molybdenum		0.67	B	0.25	1.9
Nickel		10.4	X	0.12	3.8
Potassium		970		39.4	289
Selenium		0.83	U	0.83	0.96
Silicon		517	X N	5.4	9.6
Silver		0.15	U	0.15	0.19
Sodium		358		56.8	115
Vanadium		38.8		0.090	1.9
Zinc		39.0	X	0.38	0.96

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-64749	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-62500	Lab File ID:	110428AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	04/28/2011 1637			Final Weight/Volume:	50 mL
Prep Date:	04/28/2011 1100				

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

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH46**

Lab Sample ID: 280-14664-2
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/14/2011 1040
Date Received: 04/15/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-64275	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-62838	Lab File ID:	26b042611.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	04/26/2011 1809			Final Weight/Volume:	100 mL
Prep Date:	04/26/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6360		1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		2.5		0.65	0.99
Barium		115		0.075	0.49
Beryllium		0.068	B	0.033	0.20
Boron		6.5		0.97	2.0
Cadmium		0.089	B	0.040	0.20
Calcium		6090		13.9	49.3
Chromium		13.4		0.057	0.20
Cobalt		6.5	X	0.099	0.99
Copper		21.2		0.21	0.99
Iron		16700		3.7	4.9
Lead		14.8		0.27	0.49
Magnesium		3780	X	3.7	19.7
Manganese		251		0.099	0.99
Molybdenum		0.67	B	0.26	2.0
Nickel		10.9	X	0.12	3.9
Potassium		917		40.5	296
Selenium		0.85	U	0.85	0.99
Silicon		521	X	5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		330		58.2	118
Vanadium		42.9		0.093	2.0
Zinc		43.8	X	0.39	0.99

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-64749	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-62500	Lab File ID:	110428AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Analysis Date:	04/28/2011 1644			Final Weight/Volume:	50 mL
Prep Date:	04/28/2011 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0079	B	0.0051	0.016

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH47**

Lab Sample ID: 280-14664-3
Client Matrix: Solid
% Moisture: 3.6

Date Sampled: 04/14/2011 1050
Date Received: 04/15/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-64275	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-62838	Lab File ID:	26b042611.asc
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Analysis Date:	04/26/2011 1811			Final Weight/Volume:	100 mL
Prep Date:	04/26/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6940		1.6	5.2
Antimony		0.39	U	0.39	0.62
Arsenic		2.0		0.68	1.0
Barium		106		0.079	0.52
Beryllium		0.081	B	0.034	0.21
Boron		4.5		1.0	2.1
Cadmium		0.088	B	0.043	0.21
Calcium		6450		14.6	51.9
Chromium		13.0		0.060	0.21
Cobalt		6.7	X	0.10	1.0
Copper		18.1		0.23	1.0
Iron		17100		3.9	5.2
Lead		17.0		0.28	0.52
Magnesium		4100	X	3.8	20.8
Manganese		267		0.10	1.0
Molybdenum		0.45	B	0.27	2.1
Nickel		11.3	X	0.13	4.2
Potassium		1170		42.5	311
Selenium		0.89	U	0.89	1.0
Silicon		579	X	5.9	10.4
Silver		0.17	U	0.17	0.21
Sodium		331		61.2	125
Vanadium		45.0		0.098	2.1
Zinc		49.9	X	0.41	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-64749	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-62500	Lab File ID:	110428AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	04/28/2011 1647			Final Weight/Volume:	50 mL
Prep Date:	04/28/2011 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.010	B	0.0053	0.016

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH48**

Lab Sample ID: 280-14664-4
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 04/14/2011 1055
Date Received: 04/15/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-64275	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-62838	Lab File ID:	26b042611.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	04/26/2011 1814			Final Weight/Volume:	100 mL
Prep Date:	04/26/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5930		1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		2.1		0.65	0.98
Barium		91.7		0.074	0.49
Beryllium		0.060	B	0.032	0.20
Boron		3.4		0.96	2.0
Cadmium		0.069	B	0.040	0.20
Calcium		5320		13.8	49.0
Chromium		9.9		0.057	0.20
Cobalt		5.8	X	0.098	0.98
Copper		14.4		0.21	0.98
Iron		14700		3.7	4.9
Lead		8.0		0.26	0.49
Magnesium		3520	X	3.6	19.6
Manganese		231		0.098	0.98
Molybdenum		0.25	U	0.25	2.0
Nickel		9.0	X	0.12	3.9
Potassium		910		40.1	294
Selenium		0.84	U	0.84	0.98
Silicon		401	X	5.5	9.8
Silver		0.16	U	0.16	0.20
Sodium		253		57.8	118
Vanadium		38.4		0.092	2.0
Zinc		37.8	X	0.39	0.98

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-64749	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-62500	Lab File ID:	110428AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	04/28/2011 1649			Final Weight/Volume:	50 mL
Prep Date:	04/28/2011 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0052	U	0.0052	0.016

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH49**

Lab Sample ID: 280-14664-5
Client Matrix: Solid
% Moisture: 4.5

Date Sampled: 04/14/2011 1100
Date Received: 04/15/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-64275	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-62838	Lab File ID:	26b042611.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	04/26/2011 1825			Final Weight/Volume:	100 mL
Prep Date:	04/26/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6800		1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		2.2		0.65	0.98
Barium		108		0.074	0.49
Beryllium		0.092	B	0.032	0.20
Boron		4.2		0.96	2.0
Cadmium		0.11	B	0.040	0.20
Calcium		5890		13.8	48.9
Chromium		11.8		0.057	0.20
Cobalt		6.5	X	0.098	0.98
Copper		22.6		0.21	0.98
Iron		16400		3.7	4.9
Lead		6010		0.26	0.49
Magnesium		3930	X	3.6	19.6
Manganese		295		0.098	0.98
Molybdenum		0.32	B	0.25	2.0
Nickel		12.1	X	0.12	3.9
Potassium		1020		40.1	293
Selenium		0.84	U	0.84	0.98
Silicon		349	X	5.5	9.8
Silver		0.16	U	0.16	0.20
Sodium		270		57.7	117
Vanadium		39.5		0.092	2.0
Zinc		54.6	X	0.39	0.98

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-64749	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-62500	Lab File ID:	110428AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.65 g
Analysis Date:	04/28/2011 1651			Final Weight/Volume:	50 mL
Prep Date:	04/28/2011 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.043		0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH50**

Lab Sample ID: 280-14664-6
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 04/14/2011 1105
Date Received: 04/15/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-64275	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-62838	Lab File ID:	26b042611.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	04/26/2011 1827			Final Weight/Volume:	100 mL
Prep Date:	04/26/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8970		1.5	4.8
Antimony		0.36	U	0.36	0.57
Arsenic		2.1		0.63	0.95
Barium		442		0.072	0.48
Beryllium		0.26		0.031	0.19
Boron		48.5		0.93	1.9
Cadmium		0.067	B	0.039	0.19
Calcium		9970		13.4	47.5
Chromium		13.6		0.055	0.19
Cobalt		7.2	X	0.095	0.95
Copper		26.1		0.21	0.95
Iron		18500		3.6	4.8
Lead		81.2		0.26	0.48
Magnesium		4740	X	3.5	19.0
Manganese		327		0.095	0.95
Molybdenum		2.3		0.25	1.9
Nickel		21.4	X	0.12	3.8
Potassium		1130		39.0	285
Selenium		0.82	U	0.82	0.95
Silicon		537	X	5.4	9.5
Silver		0.15	U	0.15	0.19
Sodium		1440		56.1	114
Vanadium		48.1		0.089	1.9
Zinc		43.2	X	0.38	0.95

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-64749	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-62500	Lab File ID:	110428AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	04/28/2011 1653			Final Weight/Volume:	50 mL
Prep Date:	04/28/2011 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.018		0.0050	0.015

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH51**

Lab Sample ID: 280-14664-7
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 04/14/2011 1110
Date Received: 04/15/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-64275	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-62838	Lab File ID:	26b042611.asc
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	04/26/2011 1830			Final Weight/Volume:	100 mL
Prep Date:	04/26/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6560		1.4	4.4
Antimony		0.34	U	0.34	0.53
Arsenic		1.8		0.59	0.89
Barium		111		0.068	0.44
Beryllium		0.057	B	0.029	0.18
Boron		4.7		0.87	1.8
Cadmium		0.18		0.036	0.18
Calcium		5580		12.5	44.4
Chromium		11.9		0.052	0.18
Cobalt		6.4	X	0.089	0.89
Copper		96.6		0.19	0.89
Iron		16800		3.4	4.4
Lead		30.3		0.24	0.44
Magnesium		3600	X	3.3	17.8
Manganese		248		0.089	0.89
Molybdenum		0.39	B	0.23	1.8
Nickel		11.0	X	0.11	3.6
Potassium		987		36.4	267
Selenium		0.76	U	0.76	0.89
Silicon		323	X	5.0	8.9
Silver		0.14	U	0.14	0.18
Sodium		276		52.4	107
Vanadium		42.8		0.084	1.8
Zinc		60.6	X	0.35	0.89

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-64749	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-62500	Lab File ID:	110428AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	04/28/2011 1700			Final Weight/Volume:	50 mL
Prep Date:	04/28/2011 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.16		0.0052	0.016

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH52**

Lab Sample ID: 280-14664-8
Client Matrix: Solid
% Moisture: 3.5

Date Sampled: 04/14/2011 1120
Date Received: 04/15/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-64275	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-62838	Lab File ID:	26b042611.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	04/26/2011 1832			Final Weight/Volume:	100 mL
Prep Date:	04/26/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6340		1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		2.1		0.64	0.97
Barium		110		0.074	0.48
Beryllium		0.032	U	0.032	0.19
Boron		3.4		0.95	1.9
Cadmium		0.21		0.040	0.19
Calcium		9550		13.7	48.4
Chromium		13.1		0.056	0.19
Cobalt		6.9	X	0.097	0.97
Copper		39.1		0.21	0.97
Iron		20300		3.7	4.8
Lead		80.1		0.26	0.48
Magnesium		3650	X	3.6	19.4
Manganese		271		0.097	0.97
Molybdenum		0.67	B	0.25	1.9
Nickel		10.8	X	0.12	3.9
Potassium		958		39.7	291
Selenium		0.83	U	0.83	0.97
Silicon		425	X	5.5	9.7
Silver		0.15	U	0.15	0.19
Sodium		315		57.2	116
Vanadium		46.4		0.091	1.9
Zinc		95.6	X	0.39	0.97

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-64749	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-62500	Lab File ID:	110428AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Analysis Date:	04/28/2011 1703			Final Weight/Volume:	50 mL
Prep Date:	04/28/2011 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.060		0.0056	0.017

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH53**

Lab Sample ID: 280-14664-9
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/14/2011 1130
Date Received: 04/15/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-64275	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-62838	Lab File ID:	26b042611.asc
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	04/26/2011 1834			Final Weight/Volume:	100 mL
Prep Date:	04/26/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6450		1.5	4.7
Antimony		0.36	U	0.36	0.57
Arsenic		1.8		0.62	0.94
Barium		140		0.072	0.47
Beryllium		0.044	B	0.031	0.19
Boron		2.6		0.93	1.9
Cadmium		0.23		0.039	0.19
Calcium		5290		13.3	47.2
Chromium		10.9		0.055	0.19
Cobalt		6.6	X	0.094	0.94
Copper		195		0.21	0.94
Iron		16900		3.6	4.7
Lead		45.9		0.26	0.47
Magnesium		3660	X	3.5	18.9
Manganese		256		0.094	0.94
Molybdenum		0.25	U	0.25	1.9
Nickel		9.9	X	0.12	3.8
Potassium		1110		38.7	283
Selenium		0.81	U	0.81	0.94
Silicon		341	X	5.3	9.4
Silver		0.15	U	0.15	0.19
Sodium		255		55.7	113
Vanadium		44.9		0.089	1.9
Zinc		113	X	0.38	0.94

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-64749	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-62500	Lab File ID:	110428AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	04/28/2011 1705			Final Weight/Volume:	50 mL
Prep Date:	04/28/2011 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.34		0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH54**

Lab Sample ID: 280-14664-10
Client Matrix: Solid
% Moisture: 4.1

Date Sampled: 04/14/2011 1140
Date Received: 04/15/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-64275	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-62838	Lab File ID:	26b042611.asc
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	04/26/2011 1837			Final Weight/Volume:	100 mL
Prep Date:	04/26/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6650		1.6	5.2
Antimony		0.39	U	0.39	0.62
Arsenic		3.2		0.68	1.0
Barium		113		0.078	0.52
Beryllium		0.055	B	0.034	0.21
Boron		4.3		1.0	2.1
Cadmium		0.27		0.042	0.21
Calcium		5780		14.6	51.6
Chromium		10.6		0.060	0.21
Cobalt		6.7	X	0.10	1.0
Copper		24.8		0.22	1.0
Iron		16900		3.9	5.2
Lead		48.1		0.28	0.52
Magnesium		3690	X	3.8	20.7
Manganese		266		0.10	1.0
Molybdenum		0.27	U	0.27	2.1
Nickel		10.7	X	0.13	4.1
Potassium		1100		42.3	310
Selenium		0.89	U	0.89	1.0
Silicon		396	X	5.8	10.3
Silver		0.17	U	0.17	0.21
Sodium		267		60.9	124
Vanadium		44.9		0.097	2.1
Zinc		63.5	X	0.41	1.0

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-64749	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-62500	Lab File ID:	110428AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	04/28/2011 1712			Final Weight/Volume:	50 mL
Prep Date:	04/28/2011 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.18		0.0052	0.016

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH55**

Lab Sample ID: 280-14664-11
Client Matrix: Solid
% Moisture: 3.7

Date Sampled: 04/14/2011 1145
Date Received: 04/15/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-64275	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-62838	Lab File ID:	26b042611.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	04/26/2011 1839			Final Weight/Volume:	100 mL
Prep Date:	04/26/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6250		1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		1.9		0.65	0.98
Barium		148		0.074	0.49
Beryllium		0.063	B	0.032	0.20
Boron		6.8		0.96	2.0
Cadmium		0.16	B	0.040	0.20
Calcium		5550		13.8	49.0
Chromium		12.1		0.057	0.20
Cobalt		6.4	X	0.098	0.98
Copper		67.3		0.21	0.98
Iron		16900		3.7	4.9
Lead		28.3		0.26	0.49
Magnesium		3770	X	3.6	19.6
Manganese		247		0.098	0.98
Molybdenum		0.46	B	0.25	2.0
Nickel		12.3	X	0.12	3.9
Potassium		1020		40.1	294
Selenium		0.84	U	0.84	0.98
Silicon		381	X	5.5	9.8
Silver		0.16	U	0.16	0.20
Sodium		303		57.8	118
Vanadium		42.3		0.092	2.0
Zinc		96.0	X	0.39	0.98

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-64749	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-62500	Lab File ID:	110428AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	04/28/2011 1714			Final Weight/Volume:	50 mL
Prep Date:	04/28/2011 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.17		0.0050	0.015

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH56**

Lab Sample ID: 280-14664-12
Client Matrix: Solid
% Moisture: 3.4

Date Sampled: 04/14/2011 1150
Date Received: 04/15/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-64275	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-62838	Lab File ID:	26b042611.asc
Dilution:	1.0			Initial Weight/Volume:	1.06 g
Analysis Date:	04/26/2011 1842			Final Weight/Volume:	100 mL
Prep Date:	04/26/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7730		1.5	4.9
Antimony		0.37	U	0.37	0.59
Arsenic		2.5		0.64	0.98
Barium		218		0.074	0.49
Beryllium		0.13	B	0.032	0.20
Boron		17.1		0.96	2.0
Cadmium		0.37		0.040	0.20
Calcium		7430		13.8	48.9
Chromium		12.3		0.057	0.20
Cobalt		7.5	X	0.098	0.98
Copper		28.4		0.21	0.98
Iron		17900		3.7	4.9
Lead		37.2		0.26	0.49
Magnesium		4420	X	3.6	19.5
Manganese		264		0.098	0.98
Molybdenum		0.46	B	0.25	2.0
Nickel		12.9	X	0.12	3.9
Potassium		1110		40.1	293
Selenium		0.84	U	0.84	0.98
Silicon		346	X	5.5	9.8
Silver		0.16	U	0.16	0.20
Sodium		541		57.6	117
Vanadium		48.7		0.092	2.0
Zinc		82.3	X	0.39	0.98

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-64749	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-62500	Lab File ID:	110428AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	04/28/2011 1717			Final Weight/Volume:	50 mL
Prep Date:	04/28/2011 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.22		0.0052	0.016

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH57**

Lab Sample ID: 280-14664-13
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 04/14/2011 1130
Date Received: 04/15/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-64275	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-62838	Lab File ID:	26b042611.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	04/26/2011 1844			Final Weight/Volume:	100 mL
Prep Date:	04/26/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6470		1.5	4.8
Antimony		0.36	U	0.36	0.57
Arsenic		2.6		0.63	0.95
Barium		111		0.072	0.48
Beryllium		0.037	B	0.031	0.19
Boron		3.2		0.93	1.9
Cadmium		0.21		0.039	0.19
Calcium		7710		13.4	47.6
Chromium		11.3		0.055	0.19
Cobalt		6.5	X	0.095	0.95
Copper		74.3		0.21	0.95
Iron		16200		3.6	4.8
Lead		33.5		0.26	0.48
Magnesium		3770	X	3.5	19.1
Manganese		250		0.095	0.95
Molybdenum		0.34	B	0.25	1.9
Nickel		10.3	X	0.12	3.8
Potassium		1100		39.1	286
Selenium		0.82	U	0.82	0.95
Silicon		477	X	5.4	9.5
Silver		0.15	U	0.15	0.19
Sodium		237		56.2	114
Vanadium		44.3		0.090	1.9
Zinc		107	X	0.38	0.95

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-64749	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-62500	Lab File ID:	110428AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	04/28/2011 1719			Final Weight/Volume:	50 mL
Prep Date:	04/28/2011 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.27		0.0050	0.015

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Client Sample ID: **J1HH61**

Lab Sample ID: 280-14664-14EB
Client Matrix: Solid
% Moisture: 0.2

Date Sampled: 04/14/2011 1141
Date Received: 04/15/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-64275	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-62838	Lab File ID:	26b042611.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	04/26/2011 1846			Final Weight/Volume:	100 mL
Prep Date:	04/26/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		209		1.5	4.7
Antimony		0.36	U	0.36	0.56
Arsenic		0.62	U	0.62	0.94
Barium		2.0		0.071	0.47
Beryllium		0.031	U	0.031	0.19
Boron		0.92	U	0.92	1.9
Cadmium		0.038	U	0.038	0.19
Calcium		42.2	B	13.2	46.8
Chromium		0.12	B	0.054	0.19
Cobalt		0.13	B X	0.094	0.94
Copper		0.20	U	0.20	0.94
Iron		280		3.6	4.7
Lead		0.31	B	0.25	0.47
Magnesium		24.6	X	3.5	18.7
Manganese		5.3		0.094	0.94
Molybdenum		0.24	U	0.24	1.9
Nickel		0.12	U X	0.12	3.7
Potassium		47.1	B	38.4	281
Selenium		0.81	U	0.81	0.94
Silicon		134	X	5.3	9.4
Silver		0.15	U	0.15	0.19
Sodium		55.3	U	55.3	112
Vanadium		0.42	B	0.088	1.9
Zinc		1.2	X	0.37	0.94

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-64749	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-62500	Lab File ID:	110428AA.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Analysis Date:	04/28/2011 1721			Final Weight/Volume:	50 mL
Prep Date:	04/28/2011 1100				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0048	U	0.0048	0.015

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

General Chemistry

Client Sample ID: **J1HH45**

Lab Sample ID: 280-14664-1
Client Matrix: Solid

Date Sampled: 04/14/2011 1010
Date Received: 04/15/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	2.9		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-62746 Analysis Date: 04/18/2011 1120 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

General Chemistry

Client Sample ID: **J1HH46**

Lab Sample ID: 280-14664-2
Client Matrix: Solid

Date Sampled: 04/14/2011 1040
Date Received: 04/15/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.5		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-62746 Analysis Date: 04/18/2011 1120 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

General Chemistry

Client Sample ID: **J1HH47**

Lab Sample ID: 280-14664-3
Client Matrix: Solid

Date Sampled: 04/14/2011 1050
Date Received: 04/15/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.6		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-62746 Analysis Date: 04/18/2011 1120 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

General Chemistry

Client Sample ID: **J1HH48**

Lab Sample ID: 280-14664-4
Client Matrix: Solid

Date Sampled: 04/14/2011 1055
Date Received: 04/15/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.7		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-62746 Analysis Date: 04/18/2011 1120 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

General Chemistry

Client Sample ID: **J1HH49**

Lab Sample ID: 280-14664-5
Client Matrix: Solid

Date Sampled: 04/14/2011 1100
Date Received: 04/15/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.5		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-62746 Analysis Date: 04/18/2011 1120 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

General Chemistry

Client Sample ID: **J1HH50**

Lab Sample ID: 280-14664-6
Client Matrix: Solid

Date Sampled: 04/14/2011 1105
Date Received: 04/15/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.4		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-62746 Analysis Date: 04/18/2011 1120 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

General Chemistry

Client Sample ID: **J1HH51**

Lab Sample ID: 280-14664-7
Client Matrix: Solid

Date Sampled: 04/14/2011 1110
Date Received: 04/15/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.8		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-62746 Analysis Date: 04/18/2011 1120 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

General Chemistry

Client Sample ID: **J1HH52**

Lab Sample ID: 280-14664-8
Client Matrix: Solid

Date Sampled: 04/14/2011 1120
Date Received: 04/15/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.5		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-62746 Analysis Date: 04/18/2011 1120 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

General Chemistry

Client Sample ID: **J1HH53**

Lab Sample ID: 280-14664-9
Client Matrix: Solid

Date Sampled: 04/14/2011 1130
Date Received: 04/15/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.6		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-62746 Analysis Date: 04/18/2011 1120 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

General Chemistry

Client Sample ID: **J1HH54**

Lab Sample ID: 280-14664-10
Client Matrix: Solid

Date Sampled: 04/14/2011 1140
Date Received: 04/15/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-62746 Analysis Date: 04/18/2011 1120 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

General Chemistry

Client Sample ID: **J1HH55**

Lab Sample ID: 280-14664-11
Client Matrix: Solid

Date Sampled: 04/14/2011 1145
Date Received: 04/15/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.7		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-62746 Analysis Date: 04/18/2011 1120 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

General Chemistry

Client Sample ID: **J1HH56**

Lab Sample ID: 280-14664-12
Client Matrix: Solid

Date Sampled: 04/14/2011 1150
Date Received: 04/15/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.4		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-62746 Analysis Date: 04/18/2011 1120 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

General Chemistry

Client Sample ID: **J1HH57**

Lab Sample ID: 280-14664-13
Client Matrix: Solid

Date Sampled: 04/14/2011 1130
Date Received: 04/15/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.6		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-62746 Analysis Date: 04/18/2011 1120 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

General Chemistry

Client Sample ID: **J1HH61**

Lab Sample ID: 280-14664-14EB
Client Matrix: Solid

Date Sampled: 04/14/2011 1141
Date Received: 04/15/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	0.24		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-62746 Analysis Date: 04/18/2011 1120 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 280-62597					
LCS 280-62597/55-A	Lab Control Sample	T	Solid	5035	
MB 280-62597/1-A	Method Blank	T	Solid	5035	
280-14664-1	J1HH45	T	Solid	5035	
280-14664-1MS	Matrix Spike	T	Solid	5035	
280-14664-1MSD	Matrix Spike Duplicate	T	Solid	5035	
280-14664-2	J1HH46	T	Solid	5035	
280-14664-3	J1HH47	T	Solid	5035	
280-14664-4	J1HH48	T	Solid	5035	
280-14664-5	J1HH49	T	Solid	5035	
280-14664-5MS	Matrix Spike	T	Solid	5035	
280-14664-5MSD	Matrix Spike Duplicate	T	Solid	5035	
280-14664-6	J1HH50	T	Solid	5035	
280-14664-7	J1HH51	T	Solid	5035	
280-14664-8	J1HH52	T	Solid	5035	
280-14664-9	J1HH53	T	Solid	5035	
280-14664-10	J1HH54	T	Solid	5035	
280-14664-11	J1HH55	T	Solid	5035	
280-14664-12	J1HH56	T	Solid	5035	
280-14664-13	J1HH57	T	Solid	5035	
Analysis Batch:280-63656					
LCS 280-62597/55-A	Lab Control Sample	T	Solid	8260B	280-62597
280-14664-5	J1HH49	T	Solid	8260B	280-62597
280-14664-5MS	Matrix Spike	T	Solid	8260B	280-62597
280-14664-5MSD	Matrix Spike Duplicate	T	Solid	8260B	280-62597
280-14664-6	J1HH50	T	Solid	8260B	280-62597
280-14664-7	J1HH51	T	Solid	8260B	280-62597
Analysis Batch:280-63790					
LCS 280-62597/55-A	Lab Control Sample	T	Solid	8260B	280-62597
MB 280-62597/1-A	Method Blank	T	Solid	8260B	280-62597
280-14664-1	J1HH45	T	Solid	8260B	280-62597
280-14664-1MS	Matrix Spike	T	Solid	8260B	280-62597
280-14664-1MSD	Matrix Spike Duplicate	T	Solid	8260B	280-62597
280-14664-2	J1HH46	T	Solid	8260B	280-62597
280-14664-3	J1HH47	T	Solid	8260B	280-62597
280-14664-4	J1HH48	T	Solid	8260B	280-62597
280-14664-8	J1HH52	T	Solid	8260B	280-62597
280-14664-9	J1HH53	T	Solid	8260B	280-62597
280-14664-10	J1HH54	T	Solid	8260B	280-62597
280-14664-11	J1HH55	T	Solid	8260B	280-62597
280-14664-12	J1HH56	T	Solid	8260B	280-62597
280-14664-13	J1HH57	T	Solid	8260B	280-62597

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-63043					
LCS 280-63043/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 280-63043/18-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 280-63043/1-A	Method Blank	T	Solid	3550C	
280-14664-1	J1HH45	T	Solid	3550C	
280-14664-1MS	Matrix Spike	T	Solid	3550C	
280-14664-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-14664-2	J1HH46	T	Solid	3550C	
280-14664-3	J1HH47	T	Solid	3550C	
280-14664-4	J1HH48	T	Solid	3550C	
280-14664-5	J1HH49	T	Solid	3550C	
280-14664-6	J1HH50	T	Solid	3550C	
280-14664-7	J1HH51	T	Solid	3550C	
280-14664-8	J1HH52	T	Solid	3550C	
280-14664-9	J1HH53	T	Solid	3550C	
280-14664-10	J1HH54	T	Solid	3550C	
280-14664-11	J1HH55	T	Solid	3550C	
280-14664-12	J1HH56	T	Solid	3550C	
280-14664-13	J1HH57	T	Solid	3550C	
Prep Batch: 280-63131					
LCS 280-63131/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-63131/1-A	Method Blank	T	Solid	3550C	
280-14664-1	J1HH45	T	Solid	3550C	
280-14664-2	J1HH46	T	Solid	3550C	
280-14664-3	J1HH47	T	Solid	3550C	
280-14664-4	J1HH48	T	Solid	3550C	
280-14664-5	J1HH49	T	Solid	3550C	
280-14664-6	J1HH50	T	Solid	3550C	
280-14664-7	J1HH51	T	Solid	3550C	
280-14664-8	J1HH52	T	Solid	3550C	
280-14664-9	J1HH53	T	Solid	3550C	
280-14664-10	J1HH54	T	Solid	3550C	
280-14664-10MS	Matrix Spike	T	Solid	3550C	
280-14664-10MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-14664-11	J1HH55	T	Solid	3550C	
280-14664-12	J1HH56	T	Solid	3550C	
280-14664-13	J1HH57	T	Solid	3550C	

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-64300					
LCS 280-63131/2-A	Lab Control Sample	T	Solid	8082	280-63131
MB 280-63131/1-A	Method Blank	T	Solid	8082	280-63131
280-14664-1	J1HH45	T	Solid	8082	280-63131
280-14664-2	J1HH46	T	Solid	8082	280-63131
280-14664-3	J1HH47	T	Solid	8082	280-63131
280-14664-4	J1HH48	T	Solid	8082	280-63131
280-14664-5	J1HH49	T	Solid	8082	280-63131
280-14664-6	J1HH50	T	Solid	8082	280-63131
280-14664-7	J1HH51	T	Solid	8082	280-63131
280-14664-8	J1HH52	T	Solid	8082	280-63131
280-14664-9	J1HH53	T	Solid	8082	280-63131
280-14664-10	J1HH54	T	Solid	8082	280-63131
280-14664-10MS	Matrix Spike	T	Solid	8082	280-63131
280-14664-10MSD	Matrix Spike Duplicate	T	Solid	8082	280-63131
280-14664-11	J1HH55	T	Solid	8082	280-63131
280-14664-12	J1HH56	T	Solid	8082	280-63131
280-14664-13	J1HH57	T	Solid	8082	280-63131
Analysis Batch:280-64330					
LCS 280-63043/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-63043
LCSD 280-63043/18-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Dx	280-63043
MB 280-63043/1-A	Method Blank	T	Solid	NWTPH-Dx	280-63043
280-14664-1	J1HH45	T	Solid	NWTPH-Dx	280-63043
280-14664-1MS	Matrix Spike	T	Solid	NWTPH-Dx	280-63043
280-14664-1MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-63043
280-14664-2	J1HH46	T	Solid	NWTPH-Dx	280-63043
280-14664-3	J1HH47	T	Solid	NWTPH-Dx	280-63043
280-14664-4	J1HH48	T	Solid	NWTPH-Dx	280-63043
280-14664-5	J1HH49	T	Solid	NWTPH-Dx	280-63043
280-14664-6	J1HH50	T	Solid	NWTPH-Dx	280-63043
280-14664-7	J1HH51	T	Solid	NWTPH-Dx	280-63043
280-14664-8	J1HH52	T	Solid	NWTPH-Dx	280-63043
280-14664-9	J1HH53	T	Solid	NWTPH-Dx	280-63043
280-14664-10	J1HH54	T	Solid	NWTPH-Dx	280-63043
280-14664-11	J1HH55	T	Solid	NWTPH-Dx	280-63043
280-14664-12	J1HH56	T	Solid	NWTPH-Dx	280-63043
280-14664-13	J1HH57	T	Solid	NWTPH-Dx	280-63043

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-62500					
LCS 280-62500/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-62500/1-A	Method Blank	T	Solid	7471A	
280-14664-1	J1HH45	T	Solid	7471A	
280-14664-2	J1HH46	T	Solid	7471A	
280-14664-3	J1HH47	T	Solid	7471A	
280-14664-4	J1HH48	T	Solid	7471A	
280-14664-5	J1HH49	T	Solid	7471A	
280-14664-6	J1HH50	T	Solid	7471A	
280-14664-6DU	Duplicate	T	Solid	7471A	
280-14664-6MS	Matrix Spike	T	Solid	7471A	
280-14664-7	J1HH51	T	Solid	7471A	
280-14664-8	J1HH52	T	Solid	7471A	
280-14664-9	J1HH53	T	Solid	7471A	
280-14664-10	J1HH54	T	Solid	7471A	
280-14664-11	J1HH55	T	Solid	7471A	
280-14664-12	J1HH56	T	Solid	7471A	
280-14664-13	J1HH57	T	Solid	7471A	
280-14664-14EB	J1HH61	T	Solid	7471A	
Prep Batch: 280-62838					
LCS 280-62838/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-62838/1-A	Method Blank	T	Solid	3050B	
280-14664-1	J1HH45	T	Solid	3050B	
280-14664-1DU	Duplicate	T	Solid	3050B	
280-14664-1MS	Matrix Spike	T	Solid	3050B	
280-14664-2	J1HH46	T	Solid	3050B	
280-14664-3	J1HH47	T	Solid	3050B	
280-14664-4	J1HH48	T	Solid	3050B	
280-14664-5	J1HH49	T	Solid	3050B	
280-14664-6	J1HH50	T	Solid	3050B	
280-14664-7	J1HH51	T	Solid	3050B	
280-14664-8	J1HH52	T	Solid	3050B	
280-14664-9	J1HH53	T	Solid	3050B	
280-14664-10	J1HH54	T	Solid	3050B	
280-14664-11	J1HH55	T	Solid	3050B	
280-14664-12	J1HH56	T	Solid	3050B	
280-14664-13	J1HH57	T	Solid	3050B	
280-14664-14EB	J1HH61	T	Solid	3050B	

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-64275					
LCS 280-62838/2-A	Lab Control Sample	T	Solid	6010B	280-62838
MB 280-62838/1-A	Method Blank	T	Solid	6010B	280-62838
280-14664-1	J1HH45	T	Solid	6010B	280-62838
280-14664-1DU	Duplicate	T	Solid	6010B	280-62838
280-14664-1MS	Matrix Spike	T	Solid	6010B	280-62838
280-14664-2	J1HH46	T	Solid	6010B	280-62838
280-14664-3	J1HH47	T	Solid	6010B	280-62838
280-14664-4	J1HH48	T	Solid	6010B	280-62838
280-14664-5	J1HH49	T	Solid	6010B	280-62838
280-14664-6	J1HH50	T	Solid	6010B	280-62838
280-14664-7	J1HH51	T	Solid	6010B	280-62838
280-14664-8	J1HH52	T	Solid	6010B	280-62838
280-14664-9	J1HH53	T	Solid	6010B	280-62838
280-14664-10	J1HH54	T	Solid	6010B	280-62838
280-14664-11	J1HH55	T	Solid	6010B	280-62838
280-14664-12	J1HH56	T	Solid	6010B	280-62838
280-14664-13	J1HH57	T	Solid	6010B	280-62838
280-14664-14EB	J1HH61	T	Solid	6010B	280-62838
Analysis Batch:280-64749					
LCS 280-62500/2-A	Lab Control Sample	T	Solid	7471A	280-62500
MB 280-62500/1-A	Method Blank	T	Solid	7471A	280-62500
280-14664-1	J1HH45	T	Solid	7471A	280-62500
280-14664-2	J1HH46	T	Solid	7471A	280-62500
280-14664-3	J1HH47	T	Solid	7471A	280-62500
280-14664-4	J1HH48	T	Solid	7471A	280-62500
280-14664-5	J1HH49	T	Solid	7471A	280-62500
280-14664-6	J1HH50	T	Solid	7471A	280-62500
280-14664-6DU	Duplicate	T	Solid	7471A	280-62500
280-14664-6MS	Matrix Spike	T	Solid	7471A	280-62500
280-14664-7	J1HH51	T	Solid	7471A	280-62500
280-14664-8	J1HH52	T	Solid	7471A	280-62500
280-14664-9	J1HH53	T	Solid	7471A	280-62500
280-14664-10	J1HH54	T	Solid	7471A	280-62500
280-14664-11	J1HH55	T	Solid	7471A	280-62500
280-14664-12	J1HH56	T	Solid	7471A	280-62500
280-14664-13	J1HH57	T	Solid	7471A	280-62500
280-14664-14EB	J1HH61	T	Solid	7471A	280-62500

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-62746					
280-14664-1	J1HH45	T	Solid	D-2216	
280-14664-1DU	Duplicate	T	Solid	D-2216	
280-14664-2	J1HH46	T	Solid	D-2216	
280-14664-3	J1HH47	T	Solid	D-2216	
280-14664-4	J1HH48	T	Solid	D-2216	
280-14664-5	J1HH49	T	Solid	D-2216	
280-14664-6	J1HH50	T	Solid	D-2216	
280-14664-7	J1HH51	T	Solid	D-2216	
280-14664-8	J1HH52	T	Solid	D-2216	
280-14664-9	J1HH53	T	Solid	D-2216	
280-14664-10	J1HH54	T	Solid	D-2216	
280-14664-11	J1HH55	T	Solid	D-2216	
280-14664-12	J1HH56	T	Solid	D-2216	
280-14664-13	J1HH57	T	Solid	D-2216	
280-14664-14EB	J1HH61	T	Solid	D-2216	

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 280-62984					
LCS 280-62984/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-62984/1-A	Method Blank	T	Solid	3550C	
280-14664-1	J1HH45	T	Solid	3550C	
280-14664-2	J1HH46	T	Solid	3550C	
280-14664-3	J1HH47	T	Solid	3550C	
280-14664-4	J1HH48	T	Solid	3550C	
280-14664-5	J1HH49	T	Solid	3550C	
280-14664-6	J1HH50	T	Solid	3550C	
280-14664-7	J1HH51	T	Solid	3550C	
280-14664-8	J1HH52	T	Solid	3550C	
280-14664-9	J1HH53	T	Solid	3550C	
280-14664-10	J1HH54	T	Solid	3550C	
280-14664-11	J1HH55	T	Solid	3550C	
280-14664-12	J1HH56	T	Solid	3550C	
280-14664-13	J1HH57	T	Solid	3550C	
280-14664-13MS	Matrix Spike	T	Solid	3550C	
280-14664-13MSD	Matrix Spike Duplicate	T	Solid	3550C	
Analysis Batch:280-63892					
LCS 280-62984/2-A	Lab Control Sample	T	Solid	8310	280-62984
MB 280-62984/1-A	Method Blank	T	Solid	8310	280-62984
280-14664-1	J1HH45	T	Solid	8310	280-62984
280-14664-2	J1HH46	T	Solid	8310	280-62984
280-14664-3	J1HH47	T	Solid	8310	280-62984
280-14664-4	J1HH48	T	Solid	8310	280-62984
280-14664-5	J1HH49	T	Solid	8310	280-62984
280-14664-6	J1HH50	T	Solid	8310	280-62984
280-14664-7	J1HH51	T	Solid	8310	280-62984
280-14664-8	J1HH52	T	Solid	8310	280-62984
280-14664-9	J1HH53	T	Solid	8310	280-62984
280-14664-10	J1HH54	T	Solid	8310	280-62984
280-14664-11	J1HH55	T	Solid	8310	280-62984
280-14664-12	J1HH56	T	Solid	8310	280-62984
280-14664-13	J1HH57	T	Solid	8310	280-62984
280-14664-13MS	Matrix Spike	T	Solid	8310	280-62984
280-14664-13MSD	Matrix Spike Duplicate	T	Solid	8310	280-62984

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Method Blank - Batch: 280-62597

Method: 8260B
Preparation: 5035

Lab Sample ID:	MB 280-62597/1-A	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Client Matrix:	Solid	Prep Batch:	280-62597	Lab File ID:	G4551.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.028 g
Analysis Date:	04/19/2011 1255	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				
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	9.9
2-Butanone (MEK)	1.8	U	1.8	9.9
Carbon disulfide	0.937	J	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	9.9
Chloroform	0.29	U	0.29	5.0
Chloromethane	0.77	U	0.77	9.9
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	3.36	J	0.75	5.0
4-Methyl-2-pentanone (MIBK)	4.3	U	4.3	9.9
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)	84	58 - 140
Toluene-d8 (Surr)	97	80 - 126
4-Bromofluorobenzene (Surr)	84	76 - 127
Dibromofluoromethane (Surr)	93	75 - 121

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Method Blank TICs- Batch: 280-62597

Cas Number	Analyte	RT	Est. Result	Qual
571-61-9	Naphthalene, 1,5-dimethyl-	13.15	14.7	N J
581-42-0	Naphthalene, 2,6-dimethyl-	12.53	17.1	N J
91-57-6	Naphthalene, 2-methyl-	9.86	30.5	N J
	Unknown	12.29	6.30	N J

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Lab Control Sample - Batch: 280-62597

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 280-62597/55-A	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Client Matrix:	Solid	Prep Batch:	280-62597	Lab File ID:	G4539.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	04/19/2011 0839	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	42.3	85	76 - 120	
Bromodichloromethane	50.0	46.3	93	74 - 125	
Carbon tetrachloride	50.0	51.5	103	69 - 147	
Chlorobenzene	50.0	44.2	88	74 - 120	
Chloroform	50.0	44.4	89	77 - 125	
1,3-Dichlorobenzene	50.0	44.4	89	74 - 120	
1,1-Dichloroethane	50.0	43.2	86	74 - 120	
trans-1,2-Dichloroethene	50.0	47.1	94	80 - 127	
1,1-Dichloroethene	50.0	48.0	96	77 - 143	
1,2-Dichloropropane	50.0	41.3	83	74 - 120	
Ethylbenzene	50.0	45.1	90	78 - 120	
Methylene Chloride	50.0	43.3	87	76 - 137	
Tetrachloroethene	50.0	48.6	97	71 - 120	
Toluene	50.0	45.4	91	72 - 120	
1,1,1-Trichloroethane	50.0	47.4	95	67 - 143	
Trichloroethene	50.0	46.6	93	78 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84	58 - 140
Toluene-d8 (Surr)	99	80 - 126
4-Bromofluorobenzene (Surr)	88	76 - 127
Dibromofluoromethane (Surr)	93	75 - 121

Lab Control Sample - Batch: 280-62597

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 280-62597/55-A	Analysis Batch:	280-63656	Instrument ID:	MSV_G
Client Matrix:	Solid	Prep Batch:	280-62597	Lab File ID:	G4581.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	04/20/2011 1759	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	50.0	42.4	85	76 - 120	
Bromodichloromethane	50.0	43.7	87	74 - 125	
Carbon tetrachloride	50.0	51.5	103	69 - 147	
Chlorobenzene	50.0	42.9	86	74 - 120	
Chloroform	50.0	43.6	87	77 - 125	
1,3-Dichlorobenzene	50.0	43.3	87	74 - 120	

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Lab Control Sample - Batch: 280-62597

Method: 8260B
Preparation: 5035

Lab Sample ID:	LCS 280-62597/55-A	Analysis Batch:	280-63656	Instrument ID:	MSV_G
Client Matrix:	Solid	Prep Batch:	280-62597	Lab File ID:	G4581.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 g
Analysis Date:	04/20/2011 1759	Units:	ug/Kg	Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	50.0	41.8	84	74 - 120	
trans-1,2-Dichloroethene	50.0	46.2	92	80 - 127	
1,1-Dichloroethene	50.0	59.8	120	77 - 143	
1,2-Dichloropropane	50.0	39.1	78	74 - 120	
Ethylbenzene	50.0	44.6	89	78 - 120	
Methylene Chloride	50.0	41.9	84	76 - 137	
Tetrachloroethene	50.0	48.4	97	71 - 120	
Toluene	50.0	43.9	88	72 - 120	
1,1,1-Trichloroethane	50.0	48.3	97	67 - 143	
Trichloroethene	50.0	46.0	92	78 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86	58 - 140
Toluene-d8 (Surr)	101	80 - 126
4-Bromofluorobenzene (Surr)	88	76 - 127
Dibromofluoromethane (Surr)	95	75 - 121

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-62597

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	280-14664-1	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Client Matrix:	Solid	Prep Batch:	280-62597	Lab File ID:	G4553.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.139 g
Analysis Date:	04/19/2011 1337			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				
Leach Date:	N/A				

MSD Lab Sample ID:	280-14664-1	Analysis Batch:	280-63790	Instrument ID:	MSV_G
Client Matrix:	Solid	Prep Batch:	280-62597	Lab File ID:	G4554.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.934 g
Analysis Date:	04/19/2011 1359			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	76	90	76 - 120	1	20		
Bromodichloromethane	82	99	74 - 125	1	20		
Carbon tetrachloride	74	87	69 - 147	2	20		
Chlorobenzene	75	87	74 - 120	3	20		
Chloroform	79	95	77 - 125	1	20		
1,3-Dichlorobenzene	74	79	74 - 120	11	20		
1,1-Dichloroethane	75	91	74 - 120	2	20		
trans-1,2-Dichloroethene	76	89	80 - 127	2	20	T	
1,1-Dichloroethene	77	86	77 - 143	6	20		
1,2-Dichloropropane	74	90	74 - 120	2	20		
Ethylbenzene	76	86	78 - 120	5	20	T	
Methylene Chloride	85	89	76 - 137	12	21		
Tetrachloroethene	76	85	71 - 120	5	20		
Toluene	76	88	72 - 120	3	20		
1,1,1-Trichloroethane	72	87	67 - 143	1	20		
Trichloroethene	76	89	78 - 120	1	20	T	

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	85	100	58 - 140
Toluene-d8 (Surr)	97	119	80 - 126
4-Bromofluorobenzene (Surr)	98	112	76 - 127
Dibromofluoromethane (Surr)	90	110	75 - 121

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-62597

Method: 8260B
Preparation: 5035

MS Lab Sample ID:	280-14664-5	Analysis Batch:	280-63656	Instrument ID:	MSV_G
Client Matrix:	Solid	Prep Batch:	280-62597	Lab File ID:	G4594.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5.632 g
Analysis Date:	04/20/2011 2247			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				
Leach Date:	N/A				

MSD Lab Sample ID:	280-14664-5	Analysis Batch:	280-63656	Instrument ID:	MSV_G
Client Matrix:	Solid	Prep Batch:	280-62597	Lab File ID:	G4595.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	4.883 g
Analysis Date:	04/20/2011 2308			Final Weight/Volume:	5 mL
Prep Date:	04/16/2011 0722				
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	72	78	76 - 120	21	20	T	*
Bromodichloromethane	78	84	74 - 125	22	20		*
Carbon tetrachloride	79	82	69 - 147	17	20		
Chlorobenzene	71	73	74 - 120	17	20	T	T
Chloroform	76	82	77 - 125	21	20	T	*
1,3-Dichlorobenzene	67	67	74 - 120	15	20	T	T
1,1-Dichloroethane	73	78	74 - 120	21	20	T	*
trans-1,2-Dichloroethene	75	79	80 - 127	20	20	T	T
1,1-Dichloroethene	95	101	77 - 143	20	20		
1,2-Dichloropropane	68	74	74 - 120	24	20	T	*
Ethylbenzene	73	73	78 - 120	14	20	T	T
Methylene Chloride	69	80	76 - 137	28	21	T	*
Tetrachloroethene	76	76	71 - 120	14	20		
Toluene	72	77	72 - 120	21	20		*
1,1,1-Trichloroethane	77	81	67 - 143	20	20		
Trichloroethene	75	77	78 - 120	17	20	T	T

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87	102	58 - 140
Toluene-d8 (Surr)	98	112	80 - 126
4-Bromofluorobenzene (Surr)	95	109	76 - 127
Dibromofluoromethane (Surr)	91	107	75 - 121

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Method Blank - Batch: 280-63131

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-63131/1-A	Analysis Batch:	280-64300	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-63131	Lab File ID:	005F0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.7 g
Analysis Date:	04/26/2011 1401	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	04/20/2011 1111			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	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	Acceptance Limits
Decachlorobiphenyl	100	59 - 130
Tetrachloro-m-xylene	105	53 - 128

Lab Control Sample - Batch: 280-63131

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-63131/2-A	Analysis Batch:	280-64300	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-63131	Lab File ID:	006F0601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.3 g
Analysis Date:	04/26/2011 1433	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	04/20/2011 1111			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	33.0	32.9	100	54 - 132	
Aroclor 1260	33.0	33.9	103	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	101	59 - 130
Tetrachloro-m-xylene	99	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-63131

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-14664-10	Analysis Batch:	280-64300	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-63131	Lab File ID:	018F1801.D
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	30.7 g
Analysis Date:	04/26/2011 2055			Final Weight/Volume:	5000 uL
Prep Date:	04/20/2011 1111			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-14664-10	Analysis Batch:	280-64300	Instrument ID:	GCS_W
Client Matrix:	Solid	Prep Batch:	280-63131	Lab File ID:	019F1901.D
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	30.8 g
Analysis Date:	04/26/2011 2126			Final Weight/Volume:	5000 uL
Prep Date:	04/20/2011 1111			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	105	149	54 - 132	34	26	J D	D
Aroclor 1260	36	332	62 - 129	46	26	D	D

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
Decachlorobiphenyl	59	D	76	D	59 - 130
Tetrachloro-m-xylene	85	D	84	D	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Method Blank - Batch: 280-63043

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-63043/1-A	Analysis Batch:	280-64330	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-63043	Lab File ID:	005F0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.3 g
Analysis Date:	04/26/2011 1554	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/19/2011 2112			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	930	U	930	3700
C10-C28	630	U	630	3700

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	80	49 - 115

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-63043

Method: NWTPH-Dx
Preparation: 3550C

LCS Lab Sample ID:	LCS 280-63043/2-A	Analysis Batch:	280-64330	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-63043	Lab File ID:	006F0601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.0 g
Analysis Date:	04/26/2011 1628	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/19/2011 2112			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-63043/18-A	Analysis Batch:	280-64330	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-63043	Lab File ID:	023F2301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	04/27/2011 0159	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/19/2011 2112			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
C10-C36	71	72	57 - 115	5	23		
C10-C28	71	72	53 - 115	5	23		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	88	84	49 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-63043

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-14664-1	Analysis Batch:	280-64330	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-63043	Lab File ID:	008F0801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2011 1735			Final Weight/Volume:	1000 uL
Prep Date:	04/19/2011 2112			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-14664-1	Analysis Batch:	280-64330	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-63043	Lab File ID:	009F0901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.0 g
Analysis Date:	04/26/2011 1809			Final Weight/Volume:	1000 uL
Prep Date:	04/19/2011 2112			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	60	57	57 - 115	3	23		
C10-C28	59	59	56 - 115	0	23		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	76	81	49 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Method Blank - Batch: 280-62984

Method: 8310
Preparation: 3550C

Lab Sample ID:	MB 280-62984/1-A	Analysis Batch:	280-63892	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-62984	Lab File ID:	G0425044.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.6 g
Analysis Date:	04/26/2011 0707	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	04/19/2011 1558			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Acenaphthene	9.8	U	9.8	98
Acenaphthylene	8.8	U	8.8	98
Anthracene	3.0	U	3.0	20
Benzo[a]anthracene	3.1	U	3.1	15
Benzo[a]pyrene	6.3	U	6.3	15
Benzo[b]fluoranthene	4.1	U	4.1	15
Benzo[g,h,i]perylene	7.1	U	7.1	29
Benzo[k]fluoranthene	3.9	U	3.9	15
Chrysene	4.7	U	4.7	39
Dibenzo(a,h)anthracene	11	U	11	29
Fluoranthene	13	U	13	39
Fluorene	5.2	U	5.2	29
Indeno[1,2,3-cd]pyrene	12	U	12	29
Naphthalene	12	U	12	98
Phenanthrene	12	U	12	39
Pyrene	12	U	12	39

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	97	72 - 115

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Lab Control Sample - Batch: 280-62984

Method: 8310
Preparation: 3550C

Lab Sample ID:	LCS 280-62984/2-A	Analysis Batch:	280-63892	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-62984	Lab File ID:	G0425045.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.6 g
Analysis Date:	04/26/2011 0737	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	04/19/2011 1558			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1960	2000	102	72 - 115	
Acenaphthylene	1960	1820	93	60 - 115	
Anthracene	1960	1670	85	61 - 115	
Benzo[a]anthracene	1960	2020	103	76 - 115	
Benzo[a]pyrene	1960	1690	86	69 - 115	
Benzo[b]fluoranthene	1960	1920	98	81 - 115	
Benzo[g,h,i]perylene	1960	1940	99	71 - 115	
Benzo[k]fluoranthene	1960	1880	96	85 - 115	
Chrysene	1960	1870	95	70 - 115	
Dibenzo(a,h)anthracene	1960	1930	98	79 - 115	
Fluoranthene	1960	1880	96	67 - 115	
Fluorene	1960	1840	94	72 - 115	
Indeno[1,2,3-cd]pyrene	1960	2080	106	76 - 115	
Naphthalene	1960	1890	97	77 - 115	
Phenanthrene	1960	1880	96	79 - 115	
Pyrene	1960	1880	96	77 - 115	

Surrogate	% Rec	Acceptance Limits
Terphenyl-d14 (SUR)	93	72 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-62984

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-14664-13	Analysis Batch:	280-63892	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-62984	Lab File ID:	G0425060.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	04/26/2011 1515			Final Weight/Volume:	4000 uL
Prep Date:	04/19/2011 1558			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-14664-13	Analysis Batch:	280-63892	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-62984	Lab File ID:	G0425061.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	04/26/2011 1546			Final Weight/Volume:	4000 uL
Prep Date:	04/19/2011 1558			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	102	114	72 - 115	11	20		
Acenaphthylene	85	100	60 - 115	17	21		
Anthracene	91	90	61 - 115	1	20		
Benzo[a]anthracene	90	89	76 - 115	0	20		
Benzo[a]pyrene	78	79	69 - 115	1	20		
Benzo[b]fluoranthene	73	83	81 - 115	10	20	N	
Benzo[g,h,i]perylene	83	88	71 - 115	5	20		
Benzo[k]fluoranthene	87	93	85 - 115	6	20		
Chrysene	79	82	70 - 115	3	20		
Dibenzo(a,h)anthracene	83	90	79 - 115	8	20		
Fluoranthene	94	64	67 - 115	22	20		N *
Fluorene	92	106	72 - 115	15	20		
Indeno[1,2,3-cd]pyrene	79	100	76 - 115	20	20		
Naphthalene	90	104	77 - 115	15	20		
Phenanthrene	121	100	79 - 115	16	20	N	
Pyrene	91	58	77 - 115	22	20		N *

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
Terphenyl-d14 (SUR)	144	*	122	*	72 - 115

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Method Blank - Batch: 280-62838

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-62838/1-A	Analysis Batch:	280-64275	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-62838	Lab File ID:	26b042611.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/26/2011 1755	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/26/2011 0800				
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	8.23		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: 280-14664-1
Sdg Number: J01085

Lab Control Sample - Batch: 280-62838

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-62838/2-A	Analysis Batch:	280-64275	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-62838	Lab File ID:	26b042611.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/26/2011 1758	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/26/2011 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	182.7	91	82 - 116	
Antimony	50.0	46.13	92	82 - 110	
Arsenic	100	92.24	92	85 - 110	
Barium	200	188.0	94	87 - 112	
Beryllium	5.00	4.53	91	84 - 114	
Boron	100	89.03	89	81 - 110	
Cadmium	10.0	9.45	95	87 - 110	
Calcium	5000	4586	92	82 - 114	
Chromium	20.0	18.78	94	84 - 114	
Cobalt	50.0	46.16	92	87 - 110	
Copper	25.0	23.60	94	88 - 110	
Iron	100	93.73	94	87 - 120	
Lead	50.0	46.70	93	86 - 110	
Magnesium	5000	4520	90	90 - 110	
Manganese	50.0	45.48	91	88 - 110	
Molybdenum	100	93.58	94	86 - 110	
Nickel	50.0	45.85	92	87 - 110	
Potassium	5000	4799	96	89 - 110	
Selenium	200	178.8	89	83 - 110	
Silicon	1000	267.4	27	10 - 70	
Silver	5.00	4.43	89	87 - 114	
Sodium	5000	4919	98	90 - 112	
Vanadium	50.0	46.49	93	88 - 110	
Zinc	50.0	45.32	91	76 - 114	

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Matrix Spike - Batch: 280-62838

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14664-1	Analysis Batch:	280-64275	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-62838	Lab File ID:	26b042611.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	04/26/2011 1805	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/26/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	5970		189	8010	1080	50 - 200	4
Antimony	0.37	U	47.2	25.73	54	20 - 200	
Arsenic	2.0		94.4	81.70	84	76 - 111	
Barium	135		189	340.4	109	52 - 159	
Beryllium	0.088	B	4.72	3.95	82	72 - 105	
Boron	7.3		94.4	88.90	86	75 - 107	
Cadmium	0.10	B	9.44	8.31	87	40 - 130	
Calcium	6090		4720	12060	126	43 - 165	
Chromium	12.0		18.9	30.46	98	70 - 200	
Cobalt	6.0		47.2	46.45	86	72 - 106	
Copper	27.4		23.6	41.29	59	37 - 187	
Iron	14200		94.4	18770	4853	70 - 200	4
Lead	9.7		47.2	89.43	169	70 - 200	
Magnesium	3510		4720	8564	107	64 - 145	
Manganese	229		47.2	328.0	210	40 - 200	4
Molybdenum	0.67	B	94.4	80.16	84	75 - 103	
Nickel	10.4		47.2	50.75	86	61 - 126	
Potassium	970		4720	5275	91	56 - 172	
Selenium	0.83	U	189	153.1	81	76 - 104	
Silicon	517		944	482.3	-4	20 - 200	N
Silver	0.15	U	4.72	3.74	79	75 - 141	
Sodium	358		4720	4861	95	78 - 111	
Vanadium	38.8		47.2	90.29	109	50 - 169	
Zinc	39.0		47.2	84.06	95	70 - 200	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Duplicate - Batch: 280-62838

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14664-1	Analysis Batch:	280-64275	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-62838	Lab File ID:	26b042611.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.17 g
Analysis Date:	04/26/2011 1807	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/26/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	5970		5129	15	40	
Antimony	0.37	U	0.33	NC	40	U
Arsenic	2.0		2.85	33	30	M
Barium	135		128.9	4	30	
Beryllium	0.088	B	0.0880	0.5	30	B
Boron	7.3		7.90	7	30	
Cadmium	0.10	B	0.0519	65	30	B M
Calcium	6090		5186	16	30	
Chromium	12.0		8.54	34	40	
Cobalt	6.0		5.00	18	30	
Copper	27.4		18.19	41	30	M
Iron	14200		12390	14	40	
Lead	9.7		11.72	19	40	
Magnesium	3510		2987	16	30	
Manganese	229		198.6	14	40	
Molybdenum	0.67	B	0.805	19	30	B
Nickel	10.4		8.02	26	30	
Potassium	970		795.5	20	40	
Selenium	0.83	U	0.787	NC	30	B
Silicon	517		439.4	16	40	
Silver	0.15	U	0.14	NC	30	U
Sodium	358		327.6	9	30	
Vanadium	38.8		34.15	13	30	
Zinc	39.0		33.09	16	40	

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Method Blank - Batch: 280-62500

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-62500/1-A	Analysis Batch:	280-64749	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-62500	Lab File ID:	110428AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/28/2011 1633	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/28/2011 1100				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-62500

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-62500/2-A	Analysis Batch:	280-64749	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-62500	Lab File ID:	110428AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/28/2011 1635	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/28/2011 1100				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.373	89	87 - 111	

Matrix Spike - Batch: 280-62500

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-14664-6	Analysis Batch:	280-64749	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-62500	Lab File ID:	110428AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.69 g
Analysis Date:	04/28/2011 1658	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/28/2011 1100				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.018	0.379	0.357	90	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Duplicate - Batch: 280-62500

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-14664-6	Analysis Batch:	280-64749	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-62500	Lab File ID:	110428AA.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.69 g
Analysis Date:	04/28/2011 1656	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/28/2011 1100				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.018	0.0151	18	20	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-14664-1
Sdg Number: J01085

Duplicate - Batch: 280-62746

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-14664-1	Analysis Batch:	280-62746	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:	04/18/2011 1120	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	2.9	2.9	2	20	

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-181-003	Page 1 of 3

Collector RICE, DD	Company Contact JL Russell	Telephone No. (509) 380-8093	Project Coordinator KESSNER, JH	Price Code 8L	Data Turnaround 21 Days
Project Designation ARRA 100F Remaining Sites Remediation - Soil Full Protoc	Sampling Location 100-F-44:8 VERIFICATION ~~(EXCAVATION)~~ STAGING PILE AREA JR 4/14/11		SAF No. RC-181		
Ice Chest No. WCH-11-014	Field Logbook No. EL-1651	COA S1F4482000	Method of Shipment FedEx		
Shipped To TestAmerica Incorporated, ~~Richland~~ Denver JR 7/12/11	Offsite Property No. NA		Bill of Lading/Air Bill No. 7969 9252 0246		

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 degrees C

Preservation	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C						
Type of Container	G/P	G	Gs*	aG	aG						
No. of Container(s)	1	1	5	1	1						
Volume	60mL	120mL	40mL	120mL	120mL						
SAMPLE ANALYSIS	See item (1) in Special Instructions	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL)	PAHs - 8310	PCBs - 8082						
Sample No. / Matrix * / Sample Date / Sample Time											SPA
J1HH45 / SOIL / 4-14-11 / 1010	X	X	X	X	X						1
J1HH46 / SOIL / 4-14-11 / 1040	X	X	X	X	X						2
J1HH47 / SOIL / 4-14-11 / 1050	X	X	X	X	X						3
J1HH48 / SOIL / 4-14-11 / 1055	X	X	X	X	X						4
J1HH49 / SOIL / 4-14-11 / 1100	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 / David D Rice	4-14-11 1200	Jen Russell / Jen Russell	4/14/11 1200
Jen Russell / Jen Russell (WCH)	4/14/11 1310	FED EX	
		~~Received By/Stored In~~	~~Date/Time~~ 4/15/11 0930

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}

J01085

REVIEWED BY JEB DATE 4-14-11

Matrix *
S=Soil
SE=Sediment
SO=Solid
Sl=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
Wl=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-181-003	Page 2 of 3

Collector RICE, DD	Company Contact JL Russell	Telephone No. (509) 380-8093	Project Coordinator KESSNER, JH
Price Code 8L	Data Turnaround 21 Days		
Project Designation ARRA 100F Remaining Sites Remediation - Soil Full Protoc	Sampling Location 100-F-44:8 VERIFICATION ~~(EXCAVATION)~~ STOCKPILE AREA JR 4/14/11		SAF No. RC-181
Ice Chest No. WCH-11-014	Field Logbook No. EL-1651	COA S1F4482000	Method of Shipment FedEx
Shipped To TestAmerica Incorporated, ~~Richland~~ Denver JR 7/12/11	Offsite Property No. NA		Bill of Lading/Air Bill No. 7969 9252 0246

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 degrees C

Preservation	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C						
Type of Container	G/P	G	Gs*	aG	aG						
No. of Container(s)	1	1	5	1	1						
Volume	60mL	120mL	40mL	120mL	120mL						
SAMPLE ANALYSIS	See item (1) in Special Instructions.	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL)	PAHs - 8310	PCBs - 8082						

Sample No.	Matrix *	Sample Date	Sample Time											SPA
J1HH50	SOIL	4-14-11	1105	X	X	X	X	X						6
J1HH51	SOIL	4-14-11	1110	X	X	X	X	X						7
J1HH52	SOIL	4-14-11	1120	X	X	X	X	X						8
J1HH53	SOIL	4-14-11	1130	X	X	X	X	X						9
J1HH54	SOIL	4-14-11	1140	X	X	X	X	X						10

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
David D. Rice		Jen Russell	
David D. Rice	4-14-11 1200	Jen Russell	4/14/11 1200
Jen Russell WCH	4/14/11 1310	FED EX	
		4/15/11 0830	

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}

J01085

REVIEWED BY JEB DATE 4-14-11

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-181-003	Page 3 of 3

Collector RICE, DD	Company Contact JL Russell	Telephone No. (509) 380-8093	Project Coordinator KESSNER, JH
Project Designation ARRA 100F Remaining Sites Remediation - Soil Full Protoc	Sampling Location 100-F-44:8 VERIFICATION ~~(EXCAVATION)~~ STAGING PILE AREA JR 4/14/11		SAF No. RC-181
Ice Chest No. WCH-11-014	Field Logbook No. EL-1651	COA S1F4482000	Method of Shipment FedEx
Shipped To TestAmerica Incorporated ~~Richland~~ Denver JR 7/12/11	Offsite Property No. NA		Bill of Lading/Air Bill No. 7969 9252 0246

Price Code 8L

Data Turnaround 21 Days

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 degrees C

Preservation	Cool 4C	Cool 4C	Freeze	Cool 4C	Cool 4C						
Type of Container	G/P	G	Gs*	aG	aG						
No. of Container(s)	1	1	5	1	1						
Volume	60mL	120mL	40mL	120mL	120mL						
SAMPLE ANALYSIS	See item (1) in Special Instructions.	TPH-Diesel Range - WTPH-D +	VOA - 5035/8260 (TCL)	PAHs - 8310	PCBs - 8082						

Sample No.	Matrix *	Sample Date	Sample Time										
J1HH55	SOIL	4-14-11	1145	X	X	X	X	X					SPA-11
J1HH56	SOIL	4-14-11	1150	X	X	X	X	X					SPA-12
J1HH57	SOIL	4-14-11	1130	X	X	X	X	X					DUP
J1HH61	SOIL	4-14-11	1141	X		JR 7/12/11							EB

CHAIN OF POSSESSION — **Sign/Print Names**

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
David D. Rice	4-14-11 1200	Len Russell JL Russell	4/14/11 1200
Len Russell JL Russell (WCH)	4/14/11 1310	FED EX	
			4/15/11 0830

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}

REVIEWED BY JEB DATE 4-14-11

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 -6010 R -5/1/11

Analytical Due:

Report Due: 5/6/11

184

Sample Check-in List

Date/Time Received: 4/15/11 0930 **GM Screen Result** 13 **microR/hr**

Client: Washington Closure Hanford **SDG #:** J01085 NA[ ] **SAF #:** RC-181 ~~002~~ 4/15/11 NA [ ]

Job Number: 14664 **Chain of Custody #** RC-181-003

Shipping Container ID: WCH-11-032 WCH-11-014 WCH-11-012 **Air Bill #** 7969 9252 0408, 7969 9252 0246 7969 8966 7722

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: 5.8, 5.8, 4.8°C NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 14
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): _____

Sample Custodian: [signature] **Date:** 4/15/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager [signature] Date 4/15/11

From: (509) 375-4640 Origin ID: PSCA
WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

J11151102250225

Ship Date: 14APR11
ActWgt: 52.0 LB
CAD: 8897843/INET3130

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

FRI - 15 APR A1
PRIORITY OVERNIGHT

TRK# 0201 7969 8966 7722

XH WHHA

80002
CO-US
DEN

50DG3/26A8/7EFB

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From: (509) 375-4640 Origin ID: PSCA
WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx. Express

J11151102250225

Ship Date: 14APR11
ActWgt: 95.0 LB
CAD: 8897843/INET3130

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 2

FRI - 15 APR A1
PRIORITY OVERNIGHT

TRK# 7969 9252 0246
0201

MASTER

XH WHHA

80002
CO-US
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50DG3/26A8/7EFB

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From: (509) 375-4640 Origin ID: PSCA
WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

J11151102250225

Ship Date: 14APR11
ActWgt: 89.0 LB
CAD: 8897843/INET3130

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

2 of 2

FRI - 15 APR A1
PRIORITY OVERNIGHT

MPS# 7969 9252 0408
0263
Mstr# 7969 9252 0246 0201

XH WHHA

80002
CO-US
DEN

50DG3/26A8/7EFB

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