0095864

SAF-RC-182
ARRA 100-F Remaining Sites Remediation – Soil In-Process FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 4/15/11
INITIAL/DATE

COMMENTS:

SDG JP0146 SAF-RC-182

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location: 100-F-61 Pre-Verification (2)

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-14025-1

SDG Number: JP0146

Job Description: SAF# RC-182

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

Attention: Joan H Kessner

Approved for release.
Kae E Yoder
Project Manager II
4/13/2011 2:33 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
04/13/2011

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

The Lab Certification ID# is E87667.

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

TestAmerica Laboratories, Inc.
TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

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CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-14025-1

SDG #: JP0146
SAF#: RC-182

Date SDG Closed: April 6, 2011
Data Deliverable: 7 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1H058	280-14025-1	6010/7471/1311-6010-7470/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1H059	280-14025-2	6010/7471/1311-6010-7470/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1H060	280-14025-3	6010/7471/1311-6010-7470/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082/ 1311-6010B-7470A
J1H061	280-14025-4	6010/7471/1311-6010-7470/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1H062	280-14025-5	6010/7471/1311-6010-7470/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1H063	280-14025-6	6010/7471/1311-6010-7470/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1H064	280-14025-7	6010/7471/1311-6010-7470/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082
J1H065	280-14025-8	6010/7471/1311-6010-7470/WTPH-D+/8270A/8082	6010B/7471A/NWTPH-Dx/8270C/8082

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 3/30/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 4.4 C.

Samples requesting TCLP Metals 1311/6010B/7470A analyses were leached and placed on hold, as instructed on the chains-of-custody. On 4/6/2011, the client instructed the laboratory to proceed with the requested TCLP Metals 1311/6010B/7470A analyses for sample J1H060, and to cancel all other requested TCLP analyses.

GC/MS SEMIVOLATILES - SW846 8270C
Compounds Benzo(b)fluoranthene and Benzo(k)fluoranthene were unresolved in several samples due to matrix interferences. It can be noted that these compounds were adequately resolved in associated standards, indicating the instrument is achieving separation. The combined peak was reported as Benzo(b)fluoranthene, while Benzo(k)fluoranthene was reported as undetected even though it may be present. Associated results have been flagged with a "K".

The MS/MSD performed on sample J1H059 exceeded the RPD limit for Pentachlorophenol. 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.

Each sample is analyzed to achieve the lowest possible reporting limits 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.

Surrogate recoveries have been "D" flagged in samples J1H059, J1H061 and J1H063, as the recoveries obtained are calculated from diluted samples and are not considered reliable.

Surrogate recoveries were not calculated for samples J1H060, J1H062 and J1H064, because the extracts were diluted beyond the ability to reliably quantitate recoveries. Recoveries have been flagged with a "D".

No other anomalies were encountered.

GC SEMIVOLATILES - NWTPH-Dx - DRO

Surrogate o-Terphenyl was recovered outside the control limits, biased high, in samples J1H062 and J1H064. The laboratory noted that this anomaly is due to obvious matrix interference; therefore, corrective action is deemed unnecessary.

The method required MS/MSD could not be performed for batch 280-60060, due to insufficient sample volume submitted by the client. A duplicate LCS (LCSD) was analyzed to provide some evidence of batch precision.

No other anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A

Serial dilution of a digestate in batch 280-60002 indicates that physical and chemical interferences are present for Cobalt, Iron and Nickel. Results have been flagged with an "X".

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the methods. Due to high constituent concentration, the Mercury analysis of sample J1H060 had to be performed at a dilution. The reporting limit has been adjusted relative to the dilution required.

Low levels of Barium, Manganese and Zinc are present in the method blank associated with batch 280-60002. Because the concentrations in the method blank are not present at levels greater than the reporting limits, 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 J1H058; therefore, control limits are not applicable.

No other anomalies were encountered.

TCLP METALS - SW846 1311/6010B/7470A

Low levels of Barium, Silver and Mercury are present in the method blanks associated with batches 280-61012 and 280-61083, respectively. Because the concentrations in the method blanks are not present at levels greater than the reporting limits, corrective action is deemed unnecessary.

Mercury was recovered outside the control limits, biased high, in the LCS associated with batch 280-61083 and in the Matrix Spike performed on sample J1H060 in batch 280-61083. The associated sample result has been flagged "N". This is an indicator that data may be biased high. As Mercury is not present at a level greater than the reporting limit in the associated sample, corrective action is deemed unnecessary.

The duplicate analysis of sample J1H060 exhibited RPD data outside the control limits for Lead, and the associated sample result has been flagged "M". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Analyzed for but not detected.
	K	Benzo (b&k) fluoranthene are unresolved due to matrix, result is reported as Benzo(b)fluoranthene.
	J	Indicates an Estimated Value for TICs
	*	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.
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.
	C	The analyte was detected in both the sample and the assoicated QC blank, and the sample concentration was </= 5X the blank concentration.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds (GC/MS)	TAL DEN	SW846 8270C	
Ultrasonic Extraction	TAL DEN		SW846 3550C
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
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
TCLP Metals (ICP)	TAL DEN	SW846 6010B	
TCLP Extraction	TAL DEN		SW846 1311
Preparation, Total Metals	TAL DEN		SW846 3010A
TCLP Mercury	TAL DEN	SW846 7470A	
TCLP Extraction	TAL DEN		SW846 1311
Preparation, Mercury	TAL DEN		SW846 7470A
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: 280-14025-1
Sdg Number: JP0146

Method	Analyst	Analyst ID
SW846 8270C	Tinkham, Sarah A	SAT
SW846 8082	Pavlakovich, Adam M	AMP
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Bowen, Heidi E	HEB
SW846 6010B	Trudell, Lynn-Anne	LT
SW846 7470A	Stoltz, Katie	KS
SW846 7471A	Stoltz, Katie	KS
ASTM D-2216	Berry III, Paul B	PBB

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-14025-1	J1H058	Solid	03/28/2011 0935	03/30/2011 0930
280-14025-2	J1H059	Solid	03/28/2011 0950	03/30/2011 0930
280-14025-3	J1H060	Solid	03/28/2011 1000	03/30/2011 0930
280-14025-4	J1H061	Solid	03/28/2011 1005	03/30/2011 0930
280-14025-5	J1H062	Solid	03/28/2011 1010	03/30/2011 0930
280-14025-6	J1H063	Solid	03/28/2011 1015	03/30/2011 0930
280-14025-7	J1H064	Solid	03/28/2011 1025	03/30/2011 0930
280-14025-8	J1H065	Solid	03/28/2011 1030	03/30/2011 0930

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H058**

Lab Sample ID: 280-14025-1
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 03/28/2011 0935
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9192.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/31/2011 1930			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		18	U	18	340
Anthracene		18	U	18	340
Benzo[a]anthracene		21	U	21	340
Benzo[a]pyrene		21	U	21	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		17	U	17	340
Benzo[k]fluoranthene		42	U	42	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		71	J	48	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		45	U	45	340
Carbazole		38	U	38	340
4-Chloroaniline		85	U	85	340
4-Chloro-3-methylphenol		69	U	69	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		13	U	13	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		94	U	94	690
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		69	U	69	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	690
2,4-Dinitrophenol		350	U	350	860
2,4-Dinitrotoluene		69	U	69	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		38	U	38	340
Fluorene		19	U	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		52	U	52	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		18	U	18	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H058**

Lab Sample ID: 280-14025-1
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 03/28/2011 0935
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9192.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/31/2011 1930			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		52	U	52	340
3-Nitroaniline		76	U	76	340
4-Nitroaniline		76	U	76	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	690
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	690
Phenanthrene		18	U	18	340
Phenol		19	U	19	340
Pyrene		13	U	13	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	83		50 - 120
2-Fluorophenol	89		53 - 120
Nitrobenzene-d5	83		50 - 120
Phenol-d5	88		52 - 120
Terphenyl-d14	89		55 - 120
2,4,6-Tribromophenol	77		51 - 120

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H058**

Lab Sample ID: 280-14025-1
Client Matrix: Solid

% Moisture: 4.4

Date Sampled: 03/28/2011 0935
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9192.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/31/2011 1930			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **6**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.86	180	N J
1069-53-0	Hexane, 2,3,5-trimethyl-	2.96	190	N J
2213-23-2	Heptane, 2,4-dimethyl-	3.02	250	N J
2216-30-0	Heptane, 2,5-dimethyl-	3.13	300	N J
	Unknown	3.21	3500	N J
	Unknown	11.39	160	N J

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H059**

Lab Sample ID: 280-14025-2
Client Matrix: Solid

% Moisture: 5.1

Date Sampled: 03/28/2011 0950
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9193.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	03/31/2011 1950			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		45	J	11	340
Acenaphthylene		18	U	18	340
Anthracene		110	J	18	340
Benzo[a]anthracene		470		21	340
Benzo[a]pyrene		480		21	340
Benzo[b]fluoranthene		790	K	27	340
Benzo[ghi]perylene		270	J	17	340
Benzo[k]fluoranthene		41	U K	41	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		82	J	48	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		41	J	37	340
4-Chloroaniline		85	U	85	340
4-Chloro-3-methylphenol		68	U	68	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		580		28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		93	U	93	680
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		68	U	68	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	680
2,4-Dinitrophenol		340	U	340	850
2,4-Dinitrotoluene		68	U	68	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		940		37	340
Fluorene		31	J	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		52	U	52	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		250	J	23	340
Isophorone		18	U	18	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H059**

Lab Sample ID: 280-14025-2
Client Matrix: Solid

% Moisture: 5.1

Date Sampled: 03/28/2011 0950
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9193.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	03/31/2011 1950			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		52	U	52	340
3-Nitroaniline		75	U	75	340
4-Nitroaniline		75	U	75	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	680
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	680
Phenanthrene		470		18	340
Phenol		19	U	19	340
Pyrene		950		13	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	83		50 - 120
2-Fluorophenol	87		53 - 120
Nitrobenzene-d5	83		50 - 120
Phenol-d5	87		52 - 120
Terphenyl-d14	86		55 - 120
2,4,6-Tribromophenol	74		51 - 120

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H059**

Lab Sample ID: 280-14025-2
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 03/28/2011 0950
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9193.D
Dilution:	1.0			Initial Weight/Volume:	30.6 g
Analysis Date:	03/31/2011 1950			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **10**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.86	230	N J
	Unknown	2.78	230	N J
	Unknown	2.96	170	N J
2213-23-2	Heptane, 2,4-dimethyl-	3.01	220	N J
	Unknown	3.04	220	N J
2216-30-0	Heptane, 2,5-dimethyl-	3.13	280	N J
	Unknown	3.21	3500	N J
	Unknown	9.36	160	N J
207-08-9	Benzo[k]fluoranthene	12.07	270	N J
207-08-9	Benzo[k]fluoranthene	12.13	330	N J

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H060**

Lab Sample ID: 280-14025-3
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 03/28/2011 1000
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9196.D
Dilution:	1.0			Initial Weight/Volume:	32.8 g
Analysis Date:	03/31/2011 2050			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		70	J	9.8	310
Acenaphthylene		16	U	16	310
Anthracene		84	J	16	310
Benzo[a]anthracene		370		19	310
Benzo[a]pyrene		380		19	310
Benzo[b]fluoranthene		620	K	25	310
Benzo[ghi]perylene		260	J	15	310
Benzo[k]fluoranthene		38	U K	38	310
Bis(2-chloroethoxy)methane		22	U	22	310
Bis(2-chloroethyl)ether		16	U	16	310
bis (2-chloroisopropyl) ether		22	U	22	310
Bis(2-ethylhexyl) phthalate		85	J	44	310
4-Bromophenyl phenyl ether		18	U	18	310
Butyl benzyl phthalate		41	U	41	310
Carbazole		47	J	34	310
4-Chloroaniline		78	U	78	310
4-Chloro-3-methylphenol		63	U	63	310
2-Chloronaphthalene		9.5	U	9.5	310
2-Chlorophenol		20	U	20	310
4-Chlorophenyl phenyl ether		20	U	20	310
Chrysene		460		26	310
Dibenz(a,h)anthracene		18	U	18	310
Dibenzofuran		19	U	19	310
1,2-Dichlorobenzene		21	U	21	310
1,3-Dichlorobenzene		11	U	11	310
1,4-Dichlorobenzene		13	U	13	310
3,3'-Dichlorobenzidine		260	J	86	630
2,4-Dichlorophenol		9.5	U	9.5	310
Diethyl phthalate		25	U	25	310
2,4-Dimethylphenol		63	U	63	310
Dimethyl phthalate		22	U	22	310
Di-n-butyl phthalate		28	U	28	310
4,6-Dinitro-2-methylphenol		310	U	310	630
2,4-Dinitrophenol		320	U	320	780
2,4-Dinitrotoluene		63	U	63	310
2,6-Dinitrotoluene		27	U	27	310
Di-n-octyl phthalate		14	U	14	310
Fluoranthene		830		34	310
Fluorene		33	J	17	310
Hexachlorobenzene		28	U	28	310
Hexachlorobutadiene		9.5	U	9.5	310
Hexachlorocyclopentadiene		48	U	48	310
Hexachloroethane		20	U	20	310
Indeno[1,2,3-cd]pyrene		220	J	21	310
Isophorone		16	U	16	310
2-Methylnaphthalene		18	U	18	310

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H060**

Lab Sample ID: 280-14025-3
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 03/28/2011 1000
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9196.D
Dilution:	1.0			Initial Weight/Volume:	32.8 g
Analysis Date:	03/31/2011 2050			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		12	U	12	310
3 & 4 Methylphenol		31	U	31	310
Naphthalene		29	U	29	310
2-Nitroaniline		48	U	48	310
3-Nitroaniline		69	U	69	310
4-Nitroaniline		69	U	69	310
Nitrobenzene		21	U	21	310
2-Nitrophenol		9.5	U	9.5	310
4-Nitrophenol		92	U	92	630
N-Nitrosodi-n-propylamine		29	U	29	310
N-Nitrosodiphenylamine		20	U	20	310
Pentachlorophenol		310	U	310	630
Phenanthrene		430		16	310
Phenol		17	U	17	310
Pyrene		850		12	310
1,2,4-Trichlorobenzene		27	U	27	310
2,4,5-Trichlorophenol		9.5	U	9.5	310
2,4,6-Trichlorophenol		9.5	U	9.5	310

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	86		50 - 120
2-Fluorophenol	93		53 - 120
Nitrobenzene-d5	92		50 - 120
Phenol-d5	93		52 - 120
Terphenyl-d14	88		55 - 120
2,4,6-Tribromophenol	79		51 - 120

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H060**

Lab Sample ID: 280-14025-3
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 03/28/2011 1000
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9196.D
Dilution:	1.0			Initial Weight/Volume:	32.8 g
Analysis Date:	03/31/2011 2050			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **18**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.86	260	N J
	Unknown	2.96	150	N J
	Unknown	3.01	210	N J
2216-30-0	Heptane, 2,5-dimethyl-	3.14	270	N J
	Unknown	3.21	3500	N J
544-76-3	Hexadecane	7.92	39	J J N
314-40-9	Bromacil	9.29	190	N J
203-64-5	4H-Cyclopenta[def]phenanthrene	9.36	130	N J
25429-29-2	1,1"-Biphenyl, pentachloro-	9.72	280	N J
31508-00-6	1,1"-Biphenyl, 2,3",4,4",5-pentachloro-	9.86	290	N J
	Unknown	9.97	210	N J
35065-27-1	1,1"-Biphenyl, 2,2",4,4",5,5"-hexachloro	10.14	300	N J
38380-08-4	1,1"-Biphenyl, 2,3,3",4,4",5-hexachloro-	10.21	970	N J
52663-72-6	1,1"-Biphenyl, 2,3",4,4",5,5"-hexachloro	10.34	890	N J
	Unknown	10.43	420	N J
52663-65-7	1,1"-Biphenyl, 2,2",3,3",4,6,6"-heptachl	10.59	470	N J
	Unknown	10.63	260	N J
52663-65-7	1,1"-Biphenyl, 2,2",3,3",4,6,6"-heptachl	10.74	390	N J

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H061**

Lab Sample ID: 280-14025-4
Client Matrix: Solid

% Moisture: 5.3

Date Sampled: 03/28/2011 1005
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9197.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	03/31/2011 2110			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		64	J	11	350
Acenaphthylene		41	J	18	350
Anthracene		170	J	18	350
Benzo[a]anthracene		720		21	350
Benzo[a]pyrene		700		21	350
Benzo[b]fluoranthene		1100	K	27	350
Benzo[ghi]perylene		420		17	350
Benzo[k]fluoranthene		42	U K	42	350
Bis(2-chloroethoxy)methane		24	U	24	350
Bis(2-chloroethyl)ether		17	U	17	350
bis (2-chloroisopropyl) ether		24	U	24	350
Bis(2-ethylhexyl) phthalate		110	J	48	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		45	U	45	350
Carbazole		88	J	38	350
4-Chloroaniline		86	U	86	350
4-Chloro-3-methylphenol		69	U	69	350
2-Chloronaphthalene		10	U	10	350
2-Chlorophenol		22	U	22	350
4-Chlorophenyl phenyl ether		22	U	22	350
Chrysene		810		28	350
Dibenz(a,h)anthracene		20	U	20	350
Dibenzofuran		21	U	21	350
1,2-Dichlorobenzene		23	U	23	350
1,3-Dichlorobenzene		13	U	13	350
1,4-Dichlorobenzene		14	U	14	350
3,3'-Dichlorobenzidine		94	U	94	690
2,4-Dichlorophenol		10	U	10	350
Diethyl phthalate		27	U	27	350
2,4-Dimethylphenol		69	U	69	350
Dimethyl phthalate		24	U	24	350
Di-n-butyl phthalate		30	U	30	350
4,6-Dinitro-2-methylphenol		350	U	350	690
2,4-Dinitrophenol		350	U	350	870
2,4-Dinitrotoluene		69	U	69	350
2,6-Dinitrotoluene		29	U	29	350
Di-n-octyl phthalate		15	U	15	350
Fluoranthene		1500		38	350
Fluorene		51	J	19	350
Hexachlorobenzene		30	U	30	350
Hexachlorobutadiene		10	U	10	350
Hexachlorocyclopentadiene		52	U	52	350
Hexachloroethane		22	U	22	350
Indeno[1,2,3-cd]pyrene		370		23	350
Isophorone		18	U	18	350
2-Methylnaphthalene		20	U	20	350

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H061**

Lab Sample ID: 280-14025-4
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/28/2011 1005
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9197.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	03/31/2011 2110			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	350
3 & 4 Methylphenol		35	U	35	350
Naphthalene		33	U	33	350
2-Nitroaniline		52	U	52	350
3-Nitroaniline		77	U	77	350
4-Nitroaniline		76	U	76	350
Nitrobenzene		23	U	23	350
2-Nitrophenol		10	U	10	350
4-Nitrophenol		100	U	100	690
N-Nitrosodi-n-propylamine		33	U	33	350
N-Nitrosodiphenylamine		22	U	22	350
Pentachlorophenol		350	U	350	690
Phenanthrene		770		18	350
Phenol		19	J	19	350
Pyrene		1500		13	350
1,2,4-Trichlorobenzene		29	U	29	350
2,4,5-Trichlorophenol		10	U	10	350
2,4,6-Trichlorophenol		10	U	10	350

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	76		50 - 120
2-Fluorophenol	81		53 - 120
Nitrobenzene-d5	80		50 - 120
Phenol-d5	82		52 - 120
Terphenyl-d14	80		55 - 120
2,4,6-Tribromophenol	74		51 - 120

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H061**

Lab Sample ID: 280-14025-4
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/28/2011 1005
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9197.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Analysis Date:	03/31/2011 2110			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **13**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.92	170	N J
	Unknown	2.96	150	N J
2213-23-2	Heptane, 2,4-dimethyl-	3.02	220	N J
2216-30-0	Heptane, 2,5-dimethyl-	3.13	240	N J
	Unknown	3.21	3400	N J
100-51-6	Benzyl alcohol	4.79	10	J J N
544-76-3	Hexadecane	7.92	23	J J N
613-12-7	Anthracene, 2-methyl-	9.28	160	N J
	Unknown	9.36	290	N J
605-02-7	Naphthalene, 1-phenyl-	9.98	170	N J
238-84-6	11H-Benzo[a]fluorene	10.24	140	N J
198-55-0	Perylene	12.07	470	N J
198-55-0	Perylene	12.13	490	N J

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H062**

Lab Sample ID: 280-14025-5
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/28/2011 1010
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9198.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/31/2011 2130			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		140	J	11	340
Acenaphthylene		18	U	18	340
Anthracene		270	J	18	340
Benzo[a]anthracene		1300		21	340
Benzo[a]pyrene		1200		21	340
Benzo[b]fluoranthene		1900	K	27	340
Benzo[ghi]perylene		620		17	340
Benzo[k]fluoranthene		42	U K	42	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		94	J	48	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		45	U	45	340
Carbazole		160	J	38	340
4-Chloroaniline		86	U	86	340
4-Chloro-3-methylphenol		69	U	69	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		1400		28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		43	J	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		13	U	13	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		320	J	94	690
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		69	U	69	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	690
2,4-Dinitrophenol		350	U	350	860
2,4-Dinitrotoluene		69	U	69	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		2800		38	340
Fluorene		87	J	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		52	U	52	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		610		23	340
Isophorone		18	U	18	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H062**

Lab Sample ID: 280-14025-5
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/28/2011 1010
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9198.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/31/2011 2130			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		52	U	52	340
3-Nitroaniline		76	U	76	340
4-Nitroaniline		76	U	76	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	690
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	690
Phenanthrene		1700		18	340
Phenol		19	U	19	340
Pyrene		2800		13	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	75		50 - 120
2-Fluorophenol	80		53 - 120
Nitrobenzene-d5	78		50 - 120
Phenol-d5	82		52 - 120
Terphenyl-d14	79		55 - 120
2,4,6-Tribromophenol	74		51 - 120

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H062**

Lab Sample ID: 280-14025-5
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/28/2011 1010
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9198.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/31/2011 2130			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **20**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.21	3300	N J
90-12-0	1-Methylnaphthalene	6.70	12	J J N
544-76-3	Hexadecane	7.92	23	J J N
613-12-7	Anthracene, 2-methyl-	9.29	350	N J
203-64-5	4H-Cyclopenta[def]phenanthrene	9.36	420	N J
84-65-1	9,10-Anthracenedione	9.52	210	N J
38380-03-9	1,1"-Biphenyl, 2,3,3",4",6-pentachloro-	9.72	410	N J
605-02-7	Naphthalene, 1-phenyl-	9.98	140	N J
55215-18-4	1,1"-Biphenyl, 2,2",3,3",4,5-hexachloro-	10.13	250	N J
52663-72-6	1,1"-Biphenyl, 2,3",4,4",5,5"-hexachloro	10.21	400	N J
32774-16-6	1,1"-Biphenyl, 3,3",4,4",5,5"-hexachloro	10.34	450	N J
52712-04-6	1,1"-Biphenyl, 2,2",3,4,5,5"-hexachloro-	10.43	210	N J
35065-27-1	1,1"-Biphenyl, 2,2",4,4",5,5"-hexachloro	10.52	410	N J
52663-68-0	1,1"-Biphenyl, 2,2",3,4",5,5",6-heptachl	10.59	210	N J
	Unknown	10.62	180	N J
39635-31-9	1,1"-Biphenyl, 2,3,3",4,4",5,5"-heptachl	10.74	240	N J
	Unknown	10.77	200	N J
74472-47-2	1,1"-Biphenyl, 2,2",3,4,4",5,6-Heptachlo	11.07	210	N J
198-55-0	Perylene	12.07	720	N J
207-08-9	Benzo[k]fluoranthene	12.12	1100	N J

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H063**

Lab Sample ID: 280-14025-6
Client Matrix: Solid
% Moisture: 6.3

Date Sampled: 03/28/2011 1015
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9199.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Analysis Date:	03/31/2011 2151			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		120	J	11	350
Acenaphthylene		18	U	18	350
Anthracene		130	J	18	350
Benzo[a]anthracene		370		21	350
Benzo[a]pyrene		340	J	21	350
Benzo[b]fluoranthene		540	K	28	350
Benzo[ghi]perylene		180	J	17	350
Benzo[k]fluoranthene		43	U K	43	350
Bis(2-chloroethoxy)methane		25	U	25	350
Bis(2-chloroethyl)ether		18	U	18	350
bis (2-chloroisopropyl) ether		25	U	25	350
Bis(2-ethylhexyl) phthalate		340	J	49	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		46	U	46	350
Carbazole		65	J	38	350
4-Chloroaniline		87	U	87	350
4-Chloro-3-methylphenol		70	U	70	350
2-Chloronaphthalene		11	U	11	350
2-Chlorophenol		22	U	22	350
4-Chlorophenyl phenyl ether		22	U	22	350
Chrysene		420		29	350
Dibenz(a,h)anthracene		20	U	20	350
Dibenzofuran		38	J	21	350
1,2-Dichlorobenzene		23	U	23	350
1,3-Dichlorobenzene		13	U	13	350
1,4-Dichlorobenzene		15	U	15	350
3,3'-Dichlorobenzidine		96	U	96	700
2,4-Dichlorophenol		11	U	11	350
Diethyl phthalate		28	U	28	350
2,4-Dimethylphenol		70	U	70	350
Dimethyl phthalate		25	U	25	350
Di-n-butyl phthalate		31	U	31	350
4,6-Dinitro-2-methylphenol		350	U	350	700
2,4-Dinitrophenol		360	U	360	880
2,4-Dinitrotoluene		70	U	70	350
2,6-Dinitrotoluene		30	U	30	350
Di-n-octyl phthalate		15	U	15	350
Fluoranthene		820		38	350
Fluorene		75	J	19	350
Hexachlorobenzene		31	U	31	350
Hexachlorobutadiene		11	U	11	350
Hexachlorocyclopentadiene		53	U	53	350
Hexachloroethane		23	U	23	350
Indeno[1,2,3-cd]pyrene		180	J	23	350
Isophorone		18	U	18	350
2-Methylnaphthalene		20	U	20	350

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H063**

Lab Sample ID: 280-14025-6
Client Matrix: Solid % Moisture: 6.3

Date Sampled: 03/28/2011 1015
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9199.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Analysis Date:	03/31/2011 2151			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	350
3 & 4 Methylphenol		35	U	35	350
Naphthalene		46	J	33	350
2-Nitroaniline		53	U	53	350
3-Nitroaniline		78	U	78	350
4-Nitroaniline		77	U	77	350
Nitrobenzene		23	U	23	350
2-Nitrophenol		11	U	11	350
4-Nitrophenol		100	U	100	700
N-Nitrosodi-n-propylamine		33	U	33	350
N-Nitrosodiphenylamine		22	U	22	350
Pentachlorophenol		350	U	350	700
Phenanthrene		610		18	350
Phenol		19	U	19	350
Pyrene		830		13	350
1,2,4-Trichlorobenzene		30	U	30	350
2,4,5-Trichlorophenol		11	U	11	350
2,4,6-Trichlorophenol		11	U	11	350

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	77		50 - 120
2-Fluorophenol	79		53 - 120
Nitrobenzene-d5	78		50 - 120
Phenol-d5	82		52 - 120
Terphenyl-d14	83		55 - 120
2,4,6-Tribromophenol	76		51 - 120

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H063**

Lab Sample ID: 280-14025-6
Client Matrix: Solid

% Moisture: 6.3

Date Sampled: 03/28/2011 1015
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9199.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Analysis Date:	03/31/2011 2151			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **12**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	1.86	160	N J
	Unknown	1.92	190	N J
	Unknown	2.96	160	N J
2213-23-2	Heptane, 2,4-dimethyl-	3.02	250	N J
2216-30-0	Heptane, 2,5-dimethyl-	3.13	270	N J
	Unknown	3.21	3400	N J
100-51-6	Benzyl alcohol	4.79	17	J J N
90-12-0	1-Methylnaphthalene	6.70	15	J J N
544-76-3	Hexadecane	7.92	19	J J N
314-40-9	Bromacil	9.29	230	N J
203-64-5	4H-Cyclopenta[def]phenanthrene	9.36	170	N J
207-08-9	Benzo[k]fluoranthene	12.12	290	N J

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H064**

Lab Sample ID: 280-14025-7
Client Matrix: Solid

% Moisture: 3.8

Date Sampled: 03/28/2011 1025
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9200.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/31/2011 2211			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		220	J	11	340
Acenaphthylene		18	U	18	340
Anthracene		520		18	340
Benzo[a]anthracene		2100		21	340
Benzo[a]pyrene		1900		21	340
Benzo[b]fluoranthene		3000	K	27	340
Benzo[ghi]perylene		960		17	340
Benzo[k]fluoranthene		41	U K	41	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		120	J	48	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		45	U	45	340
Carbazole		250	J	37	340
4-Chloroaniline		85	U	85	340
4-Chloro-3-methylphenol		68	U	68	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		2300		28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		53	J	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		190	J	93	680
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		68	U	68	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	680
2,4-Dinitrophenol		350	U	350	850
2,4-Dinitrotoluene		68	U	68	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		4400		37	340
Fluorene		150	J	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		52	U	52	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		920		23	340
Isophorone		18	U	18	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H064**

Lab Sample ID: 280-14025-7
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 03/28/2011 1025
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9200.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/31/2011 2211			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		52	U	52	340
3-Nitroaniline		76	U	76	340
4-Nitroaniline		75	U	75	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	680
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	680
Phenanthrene		2700		18	340
Phenol		19	U	19	340
Pyrene		4400		13	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	70		50 - 120
2-Fluorophenol	77		53 - 120
Nitrobenzene-d5	75		50 - 120
Phenol-d5	79		52 - 120
Terphenyl-d14	75		55 - 120
2,4,6-Tribromophenol	68		51 - 120

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H064**

Lab Sample ID: 280-14025-7
Client Matrix: Solid % Moisture: 3.8

Date Sampled: 03/28/2011 1025
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9200.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/31/2011 2211			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **20**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.21	3100	N J
90-12-0	1-Methylnaphthalene	6.71	14	J N J
544-76-3	Hexadecane	7.92	24	J N J
832-69-9	Phenanthrene, 1-methyl-	9.28	460	N J
	Unknown	9.37	810	N J
84-65-1	9,10-Anthracenedione	9.51	330	N J
55215-17-3	1,1"-Biphenyl, 2,2",3,4,6-Pentachloro-	9.73	350	N J
605-02-7	Naphthalene, 1-phenyl-	9.98	260	N J
2381-21-7	Pyrene, 1-methyl-	10.15	290	N J
38380-08-4	1,1"-Biphenyl, 2,3,3",4,4",5-hexachloro-	10.21	220	N J
238-84-6	11H-Benzo[a]fluorene	10.23	180	N J
52663-72-6	1,1"-Biphenyl, 2,3",4,4",5,5"-hexachloro	10.34	300	N J
243-17-4	11H-Benzo[b]fluorene	10.42	150	N J
35065-27-1	1,1"-Biphenyl, 2,2",4,4",5,5"-hexachloro	10.51	240	N J
	Unknown	10.62	170	N J
	Unknown	10.74	180	N J
82-05-3	7H-Benz[de]anthracen-7-one	10.78	150	N J
207-08-9	Benzo[k]fluoranthene	11.79	3400	N J
207-08-9	Benzo[k]fluoranthene	12.06	1000	N J
207-08-9	Benzo[k]fluoranthene	12.12	1700	N J

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H065**

Lab Sample ID: 280-14025-8
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/28/2011 1030
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9201.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	03/31/2011 2231			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	340
Acenaphthylene		18	U	18	340
Anthracene		18	U	18	340
Benzo[a]anthracene		21	U	21	340
Benzo[a]pyrene		21	U	21	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		17	U	17	340
Benzo[k]fluoranthene		42	U	42	340
Bis(2-chloroethoxy)methane		24	U	24	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		24	U	24	340
Bis(2-ethylhexyl) phthalate		1300		48	340
4-Bromophenyl phenyl ether		20	U	20	340
Butyl benzyl phthalate		45	U	45	340
Carbazole		37	U	37	340
4-Chloroaniline		85	U	85	340
4-Chloro-3-methylphenol		69	U	69	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		22	U	22	340
4-Chlorophenyl phenyl ether		22	U	22	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		20	U	20	340
Dibenzofuran		21	U	21	340
1,2-Dichlorobenzene		23	U	23	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		93	U	93	690
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		69	U	69	340
Dimethyl phthalate		24	U	24	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	690
2,4-Dinitrophenol		350	U	350	860
2,4-Dinitrotoluene		69	U	69	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		19	U	19	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		52	U	52	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		23	U	23	340
Isophorone		18	U	18	340
2-Methylnaphthalene		20	U	20	340

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H065**

Lab Sample ID: 280-14025-8
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/28/2011 1030
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9201.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	03/31/2011 2231			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	340
3 & 4 Methylphenol		34	U	34	340
Naphthalene		32	U	32	340
2-Nitroaniline		52	U	52	340
3-Nitroaniline		76	U	76	340
4-Nitroaniline		75	U	75	340
Nitrobenzene		23	U	23	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		100	U	100	690
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		22	U	22	340
Pentachlorophenol		340	U	340	690
Phenanthrene		18	U	18	340
Phenol		19	U	19	340
Pyrene		16	J	13	340
1,2,4-Trichlorobenzene		29	U	29	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	76		50 - 120
2-Fluorophenol	84		53 - 120
Nitrobenzene-d5	80		50 - 120
Phenol-d5	86		52 - 120
Terphenyl-d14	86		55 - 120
2,4,6-Tribromophenol	76		51 - 120

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H065**

Lab Sample ID: 280-14025-8
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/28/2011 1030
Date Received: 03/30/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Prep Method:	3550C	Prep Batch:	280-60025	Lab File ID:	Y9201.D
Dilution:	1.0			Initial Weight/Volume:	30.5 g
Analysis Date:	03/31/2011 2231			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **5**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
1069-53-0	Hexane, 2,3,5-trimethyl-	2.96	160	N J
2213-23-2	Heptane, 2,4-dimethyl-	3.01	200	N J
2216-30-0	Heptane, 2,5-dimethyl-	3.14	290	N J
	Unknown	3.21	3500	N J
192-65-4	Naphtho[1,2,3,4-def]chrysene	11.16	310	N J

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H058**

Lab Sample ID: 280-14025-1
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 03/28/2011 0935
Date Received: 03/30/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60726	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-60016	Initial Weight/Volume:	30.0 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/02/2011 1110			Injection Volume:	1 uL
Prep Date:	03/30/2011 1827			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	10
Aroclor 1221		8.4	U	8.4	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.9	U	4.9	10
Aroclor 1248		4.9	U	4.9	10
Aroclor 1254		2.7	U	2.7	10
Aroclor 1260		3.3	J	2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	105		59 - 130
Tetrachloro-m-xylene	97		53 - 128

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H059**

Lab Sample ID: 280-14025-2
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 03/28/2011 0950
Date Received: 03/30/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60703	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-60016	Initial Weight/Volume:	30.1 g
Dilution:	10			Final Weight/Volume:	5000 uL
Analysis Date:	04/04/2011 1229			Injection Volume:	1 uL
Prep Date:	03/30/2011 1827			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		29	U D	29	110
Aroclor 1221		84	U D	84	170
Aroclor 1232		21	U D	21	110
Aroclor 1242		49	U D	49	110
Aroclor 1248		49	U D	49	110
Aroclor 1254		27	U D	27	110
Aroclor 1260		960	D	27	110

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	98	D	59 - 130
Tetrachloro-m-xylene	107	D	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H060**

Lab Sample ID: 280-14025-3
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 03/28/2011 1000
Date Received: 03/30/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60703	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-60016	Initial Weight/Volume:	30.4 g
Dilution:	200			Final Weight/Volume:	5000 uL
Analysis Date:	04/04/2011 1250			Injection Volume:	1 uL
Prep Date:	03/30/2011 1827			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		570	U D	570	2100
Aroclor 1221		1600	U D	1600	3400
Aroclor 1232		410	U D	410	2100
Aroclor 1242		960	U D	960	2100
Aroclor 1248		960	U D	960	2100
Aroclor 1254		530	U D	530	2100
Aroclor 1260		24000	D	530	2100

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	0	D	59 - 130
Tetrachloro-m-xylene	0	D	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H061**

Lab Sample ID: 280-14025-4
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/28/2011 1005
Date Received: 03/30/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60703	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-60016	Initial Weight/Volume:	30.4 g
Dilution:	10			Final Weight/Volume:	5000 uL
Analysis Date:	04/04/2011 1312			Injection Volume:	1 uL
Prep Date:	03/30/2011 1827			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		29	U D	29	100
Aroclor 1221		84	U D	84	170
Aroclor 1232		21	U D	21	100
Aroclor 1242		49	U D	49	100
Aroclor 1248		49	U D	49	100
Aroclor 1254		27	U D	27	100
Aroclor 1260		780	D	27	100

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	82	D	59 - 130
Tetrachloro-m-xylene	109	D	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H062**

Lab Sample ID: 280-14025-5
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/28/2011 1010
Date Received: 03/30/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60703	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-60016	Initial Weight/Volume:	30.3 g
Dilution:	500			Final Weight/Volume:	5000 uL
Analysis Date:	04/04/2011 1333			Injection Volume:	1 uL
Prep Date:	03/30/2011 1827			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		1400	U D	1400	5200
Aroclor 1221		4200	U D	4200	8600
Aroclor 1232		1000	U D	1000	5200
Aroclor 1242		2400	U D	2400	5200
Aroclor 1248		2400	U D	2400	5200
Aroclor 1254		1300	U D	1300	5200
Aroclor 1260		42000	D	1300	5200

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	0	D	59 - 130
Tetrachloro-m-xylene	0	D	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H063**

Lab Sample ID: 280-14025-6
Client Matrix: Solid % Moisture: 6.3

Date Sampled: 03/28/2011 1015
Date Received: 03/30/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60703	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-60016	Initial Weight/Volume:	30.2 g
Dilution:	10			Final Weight/Volume:	5000 uL
Analysis Date:	04/04/2011 1355			Injection Volume:	1 uL
Prep Date:	03/30/2011 1827			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		29	U D	29	110
Aroclor 1221		85	U D	85	170
Aroclor 1232		21	U D	21	110
Aroclor 1242		49	U D	49	110
Aroclor 1248		49	U D	49	110
Aroclor 1254		28	U D	28	110
Aroclor 1260		720	D	28	110

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	110	D	59 - 130
Tetrachloro-m-xylene	94	D	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H064**

Lab Sample ID: 280-14025-7
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 03/28/2011 1025
Date Received: 03/30/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60703	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-60016	Initial Weight/Volume:	30.4 g
Dilution:	500			Final Weight/Volume:	5000 uL
Analysis Date:	04/04/2011 1416			Injection Volume:	1 uL
Prep Date:	03/30/2011 1827			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		1400	U D	1400	5100
Aroclor 1221		4100	U D	4100	8500
Aroclor 1232		1000	U D	1000	5100
Aroclor 1242		2400	U D	2400	5100
Aroclor 1248		2400	U D	2400	5100
Aroclor 1254		1300	U D	1300	5100
Aroclor 1260		55000	D	1300	5100

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	0	D	59 - 130
Tetrachloro-m-xylene	0	D	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H065**

Lab Sample ID: 280-14025-8
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/28/2011 1030
Date Received: 03/30/2011 0930

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-60703	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-60016	Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/04/2011 1438			Injection Volume:	1 uL
Prep Date:	03/30/2011 1827			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Aroclor 1016		2.9	U	2.9	10
Aroclor 1221		8.4	U	8.4	17
Aroclor 1232		2.1	U	2.1	10
Aroclor 1242		4.9	U	4.9	10
Aroclor 1248		4.9	U	4.9	10
Aroclor 1254		2.7	U	2.7	10
Aroclor 1260		19		2.7	10

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	112		59 - 130
Tetrachloro-m-xylene	110		53 - 128

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H058**

Lab Sample ID: 280-14025-1
Client Matrix: Solid % Moisture: 4.4

Date Sampled: 03/28/2011 0935
Date Received: 03/30/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60588	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-60060	Lab File ID:	008F0801.D
Dilution:	1.0			Initial Weight/Volume:	32.8 g
Analysis Date:	03/31/2011 1804			Final Weight/Volume:	1000 uL
Prep Date:	03/31/2011 0009			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		1000	J	950	3800
C10-C28		710	J	650	3800

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

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H059**

Lab Sample ID: 280-14025-2
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 03/28/2011 0950
Date Received: 03/30/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60588	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-60060	Lab File ID:	009F0901.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Analysis Date:	03/31/2011 1837			Final Weight/Volume:	1000 uL
Prep Date:	03/31/2011 0009			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		190000		1000	4000
C10-C28		62000		680	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	61		49 - 115

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H060**

Lab Sample ID: 280-14025-3
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 03/28/2011 1000
Date Received: 03/30/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60588	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-60060	Lab File ID:	010F1001.D
Dilution:	1.0			Initial Weight/Volume:	31.7 g
Analysis Date:	03/31/2011 1910			Final Weight/Volume:	1000 uL
Prep Date:	03/31/2011 0009			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		630000		980	3900
C10-C28		230000		670	3900

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

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H061**

Lab Sample ID: 280-14025-4
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/28/2011 1005
Date Received: 03/30/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60588	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-60060	Lab File ID:	011F1101.D
Dilution:	1.0			Initial Weight/Volume:	32.4 g
Analysis Date:	03/31/2011 1943			Final Weight/Volume:	1000 uL
Prep Date:	03/31/2011 0009			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		230000		970	3900
C10-C28		68000		660	3900

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

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H062**

Lab Sample ID: 280-14025-5
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/28/2011 1010
Date Received: 03/30/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60588	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-60060	Lab File ID:	012F1201.D
Dilution:	1.0			Initial Weight/Volume:	31.1 g
Analysis Date:	03/31/2011 2016			Final Weight/Volume:	1000 uL
Prep Date:	03/31/2011 0009			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		230000		1000	4000
C10-C28		150000		690	4000

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	214	*	49 - 115

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H063**

Lab Sample ID: 280-14025-6
Client Matrix: Solid
% Moisture: 6.3

Date Sampled: 03/28/2011 1015
Date Received: 03/30/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60588	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-60060	Lab File ID:	013F1301.D
Dilution:	1.0			Initial Weight/Volume:	32.4 g
Analysis Date:	03/31/2011 2049			Final Weight/Volume:	1000 uL
Prep Date:	03/31/2011 0009			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		55000		990	4000
C10-C28		17000		670	4000

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

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H064**

Lab Sample ID: 280-14025-7
Client Matrix: Solid % Moisture: 3.8

Date Sampled: 03/28/2011 1025
Date Received: 03/30/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60588	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-60060	Lab File ID:	014F1401.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Analysis Date:	03/31/2011 2121			Final Weight/Volume:	1000 uL
Prep Date:	03/31/2011 0009			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		360000		980	3900
C10-C28		260000		670	3900

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	405	*	49 - 115

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H065**

Lab Sample ID: 280-14025-8
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/28/2011 1030
Date Received: 03/30/2011 0930

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-60588	Instrument ID:	GCS_U2
Prep Method:	3550C	Prep Batch:	280-60060	Lab File ID:	016F1601.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	03/31/2011 2227			Final Weight/Volume:	1000 uL
Prep Date:	03/31/2011 0009			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		3800	J	1000	4200
C10-C28		2800	J	710	4200

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

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H058**

Lab Sample ID: 280-14025-1
Client Matrix: Solid

% Moisture: 4.4

Date Sampled: 03/28/2011 0935
Date Received: 03/30/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60525	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-60002	Lab File ID:	26A040111.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	04/01/2011 1403			Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6400		1.5	4.9
Antimony		0.81		0.37	0.59
Arsenic		2.3		0.65	0.98
Barium		48.9		0.074	0.49
Beryllium		0.032	U	0.032	0.20
Boron		1.2	B	0.96	2.0
Cadmium		0.040	U	0.040	0.20
Calcium		5680		13.8	48.9
Chromium		10.2		0.057	0.20
Cobalt		5.4	X	0.098	0.98
Copper		13.9		0.21	0.98
Iron		13800	X	3.7	4.9
Magnesium		4150		3.6	19.6
Manganese		265		0.098	0.98
Molybdenum		0.34	B	0.25	2.0
Nickel		10.6	X	0.12	3.9
Potassium		957		40.1	293
Selenium		0.84	U	0.84	0.98
Silicon		258		5.5	9.8
Silver		0.16	U	0.16	0.20
Sodium		148		57.7	117
Vanadium		36.4		0.092	2.0
Zinc		32.8		0.39	0.98

Analysis Method:	6010B	Analysis Batch:	280-60709	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-60002	Lab File ID:	26a040411.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	04/04/2011 1327			Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Lead		3.0		0.26	0.49

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-60097	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	03/31/2011 2102			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0056	B	0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H059**

Lab Sample ID: 280-14025-2
Client Matrix: Solid
% Moisture: 5.1

Date Sampled: 03/28/2011 0950
Date Received: 03/30/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60525	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-60002	Lab File ID:	26A040111.asc
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	04/01/2011 1428			Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7260		1.6	5.2
Antimony		0.40	U	0.40	0.63
Arsenic		2.5		0.69	1.0
Barium		57.7		0.079	0.52
Beryllium		0.034	U	0.034	0.21
Boron		1.0	U	1.0	2.1
Cadmium		0.099	B	0.043	0.21
Calcium		4180		14.7	52.2
Chromium		10.6		0.061	0.21
Cobalt		6.5	X	0.10	1.0
Copper		14.5		0.23	1.0
Iron		16200	X	4.0	5.2
Magnesium		4470		3.9	20.9
Manganese		300		0.10	1.0
Molybdenum		0.27	U	0.27	2.1
Nickel		11.6	X	0.13	4.2
Potassium		1080		42.8	313
Selenium		0.90	U	0.90	1.0
Silicon		344		5.9	10.4
Silver		0.17	U	0.17	0.21
Sodium		191		61.6	125
Vanadium		40.2		0.098	2.1
Zinc		40.5		0.42	1.0

Analysis Method:	6010B	Analysis Batch:	280-60709	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-60002	Lab File ID:	26a040411.asc
Dilution:	1.0			Initial Weight/Volume:	1.01 g
Analysis Date:	04/04/2011 1345			Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Lead		3.9		0.28	0.52

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-60097	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	03/31/2011 2104			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.054		0.0058	0.018

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H060**

Lab Sample ID: 280-14025-3
Client Matrix: Solid

% Moisture: 3.8

Date Sampled: 03/28/2011 1000
Date Received: 03/30/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60525	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-60002	Lab File ID:	26A040111.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	04/01/2011 1430			Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6700		1.5	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		2.3		0.66	1.0
Barium		79.6		0.076	0.50
Beryllium		0.033	U	0.033	0.20
Boron		3.5		0.98	2.0
Cadmium		0.14	B	0.041	0.20
Calcium		6740		14.1	50.0
Chromium		10.9		0.058	0.20
Cobalt		6.2	X	0.10	1.0
Copper		20.0		0.22	1.0
Iron		15600	X	3.8	5.0
Magnesium		4080		3.7	20.0
Manganese		270		0.10	1.0
Molybdenum		0.26	U	0.26	2.0
Nickel		11.2	X	0.12	4.0
Potassium		1030		41.0	300
Selenium		0.86	U	0.86	1.0
Silicon		351		5.7	10
Silver		0.16	U	0.16	0.20
Sodium		242		59.0	120
Vanadium		43.1		0.094	2.0
Zinc		73.5		0.40	1.0

Analysis Method:	6010B	Analysis Batch:	280-60709	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-60002	Lab File ID:	26a040411.asc
Dilution:	1.0			Initial Weight/Volume:	1.04 g
Analysis Date:	04/04/2011 1348			Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Lead		10.1		0.27	0.50

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-61374	Instrument ID:	MT_026
Prep Method:	3010A	Prep Batch:	280-61012	Lab File ID:	26c040711.asc
Dilution:	1.0	Leach Batch:	280-60029	Initial Weight/Volume:	10 mL
Analysis Date:	04/08/2011 0935			Final Weight/Volume:	50 mL
Prep Date:	04/07/2011 1500				
Leach Date:	03/30/2011 1716				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H060**

Lab Sample ID: 280-14025-3
Client Matrix: Solid

Date Sampled: 03/28/2011 1000
Date Received: 03/30/2011 0930

6010B TCLP Metals (ICP)-TCLP

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.022	U	0.022	0.50
Barium		0.41	B	0.0020	1.0
Cadmium		0.0020	U	0.0020	0.10
Chromium		0.0055	B	0.0030	0.50
Lead		0.059	B M	0.013	0.50
Selenium		0.038	B	0.024	0.10
Silver		0.0058	B C	0.0040	0.50

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-61445	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-61083	Lab File ID:	110407AJ.TXT
Dilution:	1.0	Leach Batch:	280-60029	Initial Weight/Volume:	30 mL
Analysis Date:	04/08/2011 0131			Final Weight/Volume:	30 mL
Prep Date:	04/07/2011 1030				
Leach Date:	03/30/2011 1716				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Mercury		0.00040	B N	0.000030	0.0020

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-60097	Lab File ID:	110331AD.txt
Dilution:	20			Initial Weight/Volume:	0.69 g
Analysis Date:	03/31/2011 2339			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		5.4		0.10	0.31

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H061**

Lab Sample ID: 280-14025-4
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/28/2011 1005
Date Received: 03/30/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60525	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-60002	Lab File ID:	26A040111.asc
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	04/01/2011 1433			Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6700		1.4	4.5
Antimony		0.34	U	0.34	0.54
Arsenic		2.4		0.60	0.90
Barium		82.6		0.069	0.45
Beryllium		0.030	U	0.030	0.18
Boron		2.8		0.88	1.8
Cadmium		0.092	B	0.037	0.18
Calcium		6580		12.7	45.1
Chromium		12.8		0.052	0.18
Cobalt		6.2	X	0.090	0.90
Copper		17.4		0.20	0.90
Iron		16900	X	3.4	4.5
Magnesium		4280		3.3	18.0
Manganese		282		0.090	0.90
Molybdenum		0.44	B	0.23	1.8
Nickel		12.5	X	0.11	3.6
Potassium		1050		37.0	271
Selenium		0.78	U	0.78	0.90
Silicon		325		5.1	9.0
Silver		0.14	U	0.14	0.18
Sodium		204		53.2	108
Vanadium		44.2		0.085	1.8
Zinc		54.1		0.36	0.90

Analysis Method:	6010B	Analysis Batch:	280-60709	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-60002	Lab File ID:	26a040411.asc
Dilution:	1.0			Initial Weight/Volume:	1.17 g
Analysis Date:	04/04/2011 1350			Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Lead		7.8		0.24	0.45

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-60097	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.60 g
Analysis Date:	03/31/2011 2111			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.10		0.0058	0.018

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H062**

Lab Sample ID: 280-14025-5
Client Matrix: Solid
% Moisture: 4.6

Date Sampled: 03/28/2011 1010
Date Received: 03/30/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60525	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-60002	Lab File ID:	26A040111.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	04/01/2011 1435			Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9390		1.5	4.8
Antimony		0.37	U	0.37	0.58
Arsenic		2.6		0.64	0.96
Barium		214		0.073	0.48
Beryllium		0.16	B	0.032	0.19
Boron		24.7		0.94	1.9
Cadmium		0.14	B	0.039	0.19
Calcium		8020		13.6	48.1
Chromium		14.2		0.056	0.19
Cobalt		6.6	X	0.096	0.96
Copper		33.2		0.21	0.96
Iron		17600	X	3.7	4.8
Magnesium		4370		3.6	19.2
Manganese		289		0.096	0.96
Molybdenum		0.44	B	0.25	1.9
Nickel		11.9	X	0.12	3.8
Potassium		1080		39.4	289
Selenium		0.83	U	0.83	0.96
Silicon		399		5.4	9.6
Silver		0.15	U	0.15	0.19
Sodium		390		56.8	115
Vanadium		47.1		0.090	1.9
Zinc		58.2		0.38	0.96

Analysis Method:	6010B	Analysis Batch:	280-60709	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-60002	Lab File ID:	26a040411.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Analysis Date:	04/04/2011 1352			Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Lead		47.1		0.26	0.48

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-60097	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	03/31/2011 2114			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.051		0.0053	0.016

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H063**

Lab Sample ID: 280-14025-6
Client Matrix: Solid
% Moisture: 6.3

Date Sampled: 03/28/2011 1015
Date Received: 03/30/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60525	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-60002	Lab File ID:	26A040111.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	04/01/2011 1438			Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7640		1.5	4.9
Antimony		0.37	U	0.37	0.58
Arsenic		2.5		0.64	0.97
Barium		75.6		0.074	0.49
Beryllium		0.032	U	0.032	0.19
Boron		3.5		0.95	1.9
Cadmium		0.099	B	0.040	0.19
Calcium		6120		13.7	48.5
Chromium		11.2		0.056	0.19
Cobalt		6.3	X	0.097	0.97
Copper		15.4		0.21	0.97
Iron		16300	X	3.7	4.9
Magnesium		4350		3.6	19.4
Manganese		300		0.097	0.97
Molybdenum		0.25	U	0.25	1.9
Nickel		11.0	X	0.12	3.9
Potassium		1310		39.8	291
Selenium		0.83	U	0.83	0.97
Silicon		455		5.5	9.7
Silver		0.16	U	0.16	0.19
Sodium		206		57.2	116
Vanadium		42.3		0.091	1.9
Zinc		47.2		0.39	0.97

Analysis Method:	6010B	Analysis Batch:	280-60709	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-60002	Lab File ID:	26a040411.asc
Dilution:	1.0			Initial Weight/Volume:	1.10 g
Analysis Date:	04/04/2011 1355			Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Lead		6.6		0.26	0.49

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-60097	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	03/31/2011 2125			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.53		0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H064**

Lab Sample ID: 280-14025-7
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 03/28/2011 1025
Date Received: 03/30/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60525	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-60002	Lab File ID:	26A040111.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	04/01/2011 1440			Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		9140		1.5	5.0
Antimony		0.38	U	0.38	0.59
Arsenic		1.8		0.65	0.99
Barium		216		0.075	0.50
Beryllium		0.18	B	0.033	0.20
Boron		31.7		0.97	2.0
Cadmium		0.16	B	0.041	0.20
Calcium		9430		14.0	49.5
Chromium		15.2		0.057	0.20
Cobalt		6.1	X	0.099	0.99
Copper		17.5		0.21	0.99
Iron		17600	X	3.8	5.0
Magnesium		4190		3.7	19.8
Manganese		269		0.099	0.99
Molybdenum		0.46	B	0.26	2.0
Nickel		11.5	X	0.12	4.0
Potassium		1150		40.6	297
Selenium		0.85	U	0.85	0.99
Silicon		391		5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		461		58.4	119
Vanadium		42.1		0.093	2.0
Zinc		57.1		0.39	0.99

Analysis Method:	6010B	Analysis Batch:	280-60709	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-60002	Lab File ID:	26a040411.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	04/04/2011 1357			Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Lead		46.0		0.27	0.50

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-60097	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.68 g
Analysis Date:	03/31/2011 2127			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.13		0.0051	0.016

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Client Sample ID: **J1H065**

Lab Sample ID: 280-14025-8
Client Matrix: Solid
% Moisture: 5.3

Date Sampled: 03/28/2011 1030
Date Received: 03/30/2011 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-60525	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-60002	Lab File ID:	26A040111.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	04/01/2011 1442			Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7680		1.5	4.9
Antimony		0.38	U	0.38	0.59
Arsenic		2.3		0.65	0.99
Barium		64.5		0.075	0.49
Beryllium		0.033	U	0.033	0.20
Boron		1.4	B	0.97	2.0
Cadmium		0.052	B	0.040	0.20
Calcium		4620		13.9	49.3
Chromium		10.1		0.057	0.20
Cobalt		6.0	X	0.099	0.99
Copper		12.7		0.21	0.99
Iron		15800	X	3.8	4.9
Magnesium		4100		3.7	19.7
Manganese		297		0.099	0.99
Molybdenum		0.26	U	0.26	2.0
Nickel		10.7	X	0.12	3.9
Potassium		1360		40.5	296
Selenium		0.85	U	0.85	0.99
Silicon		418		5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		177		58.2	118
Vanadium		40.2		0.093	2.0
Zinc		36.5		0.39	0.99

Analysis Method:	6010B	Analysis Batch:	280-60709	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-60002	Lab File ID:	26a040411.asc
Dilution:	1.0			Initial Weight/Volume:	1.07 g
Analysis Date:	04/04/2011 1400			Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Lead		4.5		0.27	0.49

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-60097	Lab File ID:	110331AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Analysis Date:	03/31/2011 2130			Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.027		0.0055	0.017

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

General Chemistry

Client Sample ID: **J1H058**

Lab Sample ID: 280-14025-1
Client Matrix: Solid

Date Sampled: 03/28/2011 0935
Date Received: 03/30/2011 0930

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

Analysis Batch: 280-60110 Analysis Date: 03/31/2011 0916 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

General Chemistry

Client Sample ID: **J1H059**

Lab Sample ID: 280-14025-2
Client Matrix: Solid

Date Sampled: 03/28/2011 0950
Date Received: 03/30/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.1		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-60110 Analysis Date: 03/31/2011 0916 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

General Chemistry

Client Sample ID: **J1H060**

Lab Sample ID: 280-14025-3
Client Matrix: Solid

Date Sampled: 03/28/2011 1000
Date Received: 03/30/2011 0930

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

Analysis Batch: 280-60110 Analysis Date: 03/31/2011 0916 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

General Chemistry

Client Sample ID: **J1H061**

Lab Sample ID: 280-14025-4
Client Matrix: Solid

Date Sampled: 03/28/2011 1005
Date Received: 03/30/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-60110 Analysis Date: 03/31/2011 0916 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

General Chemistry

Client Sample ID: **J1H062**

Lab Sample ID: 280-14025-5
Client Matrix: Solid

Date Sampled: 03/28/2011 1010
Date Received: 03/30/2011 0930

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

Analysis Batch: 280-60110 Analysis Date: 03/31/2011 0916 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

General Chemistry

Client Sample ID: **J1H063**

Lab Sample ID: 280-14025-6
Client Matrix: Solid

Date Sampled: 03/28/2011 1015
Date Received: 03/30/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-60110 Analysis Date: 03/31/2011 0916 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

General Chemistry

Client Sample ID: **J1H064**

Lab Sample ID: 280-14025-7
Client Matrix: Solid

Date Sampled: 03/28/2011 1025
Date Received: 03/30/2011 0930

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

Analysis Batch: 280-60110 Analysis Date: 03/31/2011 0916 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

General Chemistry

Client Sample ID: **J1H065**

Lab Sample ID: 280-14025-8
Client Matrix: Solid

Date Sampled: 03/28/2011 1030
Date Received: 03/30/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.3		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-60110 Analysis Date: 03/31/2011 0916 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 280-60025					
LCS 280-60025/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-60025/1-A	Method Blank	T	Solid	3550C	
280-14025-1	J1H058	T	Solid	3550C	
280-14025-2	J1H059	T	Solid	3550C	
280-14025-2MS	Matrix Spike	T	Solid	3550C	
280-14025-2MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-14025-3	J1H060	T	Solid	3550C	
280-14025-4	J1H061	T	Solid	3550C	
280-14025-5	J1H062	T	Solid	3550C	
280-14025-6	J1H063	T	Solid	3550C	
280-14025-7	J1H064	T	Solid	3550C	
280-14025-8	J1H065	T	Solid	3550C	
Analysis Batch:280-60409					
LCS 280-60025/2-A	Lab Control Sample	T	Solid	8270C	280-60025
MB 280-60025/1-A	Method Blank	T	Solid	8270C	280-60025
280-14025-1	J1H058	T	Solid	8270C	280-60025
280-14025-2	J1H059	T	Solid	8270C	280-60025
280-14025-2MS	Matrix Spike	T	Solid	8270C	280-60025
280-14025-2MSD	Matrix Spike Duplicate	T	Solid	8270C	280-60025
280-14025-3	J1H060	T	Solid	8270C	280-60025
280-14025-4	J1H061	T	Solid	8270C	280-60025
280-14025-5	J1H062	T	Solid	8270C	280-60025
280-14025-6	J1H063	T	Solid	8270C	280-60025
280-14025-7	J1H064	T	Solid	8270C	280-60025
280-14025-8	J1H065	T	Solid	8270C	280-60025

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-60016					
LCS 280-60016/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-60016/1-A	Method Blank	T	Solid	3550C	
280-14025-1	J1H058	T	Solid	3550C	
280-14025-1MS	Matrix Spike	T	Solid	3550C	
280-14025-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-14025-2	J1H059	T	Solid	3550C	
280-14025-3	J1H060	T	Solid	3550C	
280-14025-4	J1H061	T	Solid	3550C	
280-14025-5	J1H062	T	Solid	3550C	
280-14025-6	J1H063	T	Solid	3550C	
280-14025-7	J1H064	T	Solid	3550C	
280-14025-8	J1H065	T	Solid	3550C	
Prep Batch: 280-60060					
LCS 280-60060/2-A	Lab Control Sample	T	Solid	3550C	
LCSD 280-60060/6-A	Lab Control Sample Duplicate	T	Solid	3550C	
MB 280-60060/1-A	Method Blank	T	Solid	3550C	
280-14025-1	J1H058	T	Solid	3550C	
280-14025-2	J1H059	T	Solid	3550C	
280-14025-3	J1H060	T	Solid	3550C	
280-14025-4	J1H061	T	Solid	3550C	
280-14025-5	J1H062	T	Solid	3550C	
280-14025-6	J1H063	T	Solid	3550C	
280-14025-7	J1H064	T	Solid	3550C	
280-14025-8	J1H065	T	Solid	3550C	
Analysis Batch:280-60588					
LCS 280-60060/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-60060
LCSD 280-60060/6-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Dx	280-60060
MB 280-60060/1-A	Method Blank	T	Solid	NWTPH-Dx	280-60060
280-14025-1	J1H058	T	Solid	NWTPH-Dx	280-60060
280-14025-2	J1H059	T	Solid	NWTPH-Dx	280-60060
280-14025-3	J1H060	T	Solid	NWTPH-Dx	280-60060
280-14025-4	J1H061	T	Solid	NWTPH-Dx	280-60060
280-14025-5	J1H062	T	Solid	NWTPH-Dx	280-60060
280-14025-6	J1H063	T	Solid	NWTPH-Dx	280-60060
280-14025-7	J1H064	T	Solid	NWTPH-Dx	280-60060
280-14025-8	J1H065	T	Solid	NWTPH-Dx	280-60060

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Analysis Batch:280-60702					
280-14025-2	J1H059	T	Solid	8082	280-60016
280-14025-3	J1H060	T	Solid	8082	280-60016
280-14025-4	J1H061	T	Solid	8082	280-60016
280-14025-5	J1H062	T	Solid	8082	280-60016
280-14025-6	J1H063	T	Solid	8082	280-60016
280-14025-7	J1H064	T	Solid	8082	280-60016
280-14025-8	J1H065	T	Solid	8082	280-60016
Analysis Batch:280-60703					
280-14025-2	J1H059	T	Solid	8082	280-60016
280-14025-3	J1H060	T	Solid	8082	280-60016
280-14025-4	J1H061	T	Solid	8082	280-60016
280-14025-5	J1H062	T	Solid	8082	280-60016
280-14025-6	J1H063	T	Solid	8082	280-60016
280-14025-7	J1H064	T	Solid	8082	280-60016
280-14025-8	J1H065	T	Solid	8082	280-60016
Analysis Batch:280-60704					
LCS 280-60016/2-A	Lab Control Sample	T	Solid	8082	280-60016
MB 280-60016/1-A	Method Blank	T	Solid	8082	280-60016
280-14025-1	J1H058	T	Solid	8082	280-60016
280-14025-1MS	Matrix Spike	T	Solid	8082	280-60016
280-14025-1MSD	Matrix Spike Duplicate	T	Solid	8082	280-60016
Analysis Batch:280-60726					
LCS 280-60016/2-A	Lab Control Sample	T	Solid	8082	280-60016
MB 280-60016/1-A	Method Blank	T	Solid	8082	280-60016
280-14025-1	J1H058	T	Solid	8082	280-60016
280-14025-1MS	Matrix Spike	T	Solid	8082	280-60016
280-14025-1MSD	Matrix Spike Duplicate	T	Solid	8082	280-60016

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-60002					
LCS 280-60002/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-60002/1-A	Method Blank	T	Solid	3050B	
280-14025-1	J1H058	T	Solid	3050B	
280-14025-1DU	Duplicate	T	Solid	3050B	
280-14025-1MS	Matrix Spike	T	Solid	3050B	
280-14025-2	J1H059	T	Solid	3050B	
280-14025-3	J1H060	T	Solid	3050B	
280-14025-4	J1H061	T	Solid	3050B	
280-14025-5	J1H062	T	Solid	3050B	
280-14025-6	J1H063	T	Solid	3050B	
280-14025-7	J1H064	T	Solid	3050B	
280-14025-8	J1H065	T	Solid	3050B	
Prep Batch: 280-60029					
LCS 280-60029/2-B	Lab Control Sample	P	Solid	1311	
LCS 280-60029/2-C	Lab Control Sample	P	Solid	1311	
LB 280-60029/1-B	TCLP SPLPE Leachate Blank	P	Solid	1311	
LB 280-60029/1-C	TCLP SPLPE Leachate Blank	P	Solid	1311	
280-14025-3	J1H060	P	Solid	1311	
280-14025-3DU	Duplicate	P	Solid	1311	
280-14025-3MS	Matrix Spike	P	Solid	1311	
Prep Batch: 280-60097					
LCS 280-60097/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-60097/1-A	Method Blank	T	Solid	7471A	
280-14025-1	J1H058	T	Solid	7471A	
280-14025-2	J1H059	T	Solid	7471A	
280-14025-3	J1H060	T	Solid	7471A	
280-14025-4	J1H061	T	Solid	7471A	
280-14025-5	J1H062	T	Solid	7471A	
280-14025-5DU	Duplicate	T	Solid	7471A	
280-14025-5MS	Matrix Spike	T	Solid	7471A	
280-14025-6	J1H063	T	Solid	7471A	
280-14025-7	J1H064	T	Solid	7471A	
280-14025-8	J1H065	T	Solid	7471A	

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-60271					
LCS 280-60097/2-A	Lab Control Sample	T	Solid	7471A	280-60097
MB 280-60097/1-A	Method Blank	T	Solid	7471A	280-60097
280-14025-1	J1H058	T	Solid	7471A	280-60097
280-14025-2	J1H059	T	Solid	7471A	280-60097
280-14025-3	J1H060	T	Solid	7471A	280-60097
280-14025-4	J1H061	T	Solid	7471A	280-60097
280-14025-5	J1H062	T	Solid	7471A	280-60097
280-14025-5DU	Duplicate	T	Solid	7471A	280-60097
280-14025-5MS	Matrix Spike	T	Solid	7471A	280-60097
280-14025-6	J1H063	T	Solid	7471A	280-60097
280-14025-7	J1H064	T	Solid	7471A	280-60097
280-14025-8	J1H065	T	Solid	7471A	280-60097
Analysis Batch:280-60525					
LCS 280-60002/2-A	Lab Control Sample	T	Solid	6010B	280-60002
MB 280-60002/1-A	Method Blank	T	Solid	6010B	280-60002
280-14025-1	J1H058	T	Solid	6010B	280-60002
280-14025-1DU	Duplicate	T	Solid	6010B	280-60002
280-14025-1MS	Matrix Spike	T	Solid	6010B	280-60002
280-14025-2	J1H059	T	Solid	6010B	280-60002
280-14025-3	J1H060	T	Solid	6010B	280-60002
280-14025-4	J1H061	T	Solid	6010B	280-60002
280-14025-5	J1H062	T	Solid	6010B	280-60002
280-14025-6	J1H063	T	Solid	6010B	280-60002
280-14025-7	J1H064	T	Solid	6010B	280-60002
280-14025-8	J1H065	T	Solid	6010B	280-60002
Analysis Batch:280-60709					
LCS 280-60002/2-A	Lab Control Sample	T	Solid	6010B	280-60002
MB 280-60002/1-A	Method Blank	T	Solid	6010B	280-60002
280-14025-1	J1H058	T	Solid	6010B	280-60002
280-14025-1DU	Duplicate	T	Solid	6010B	280-60002
280-14025-1MS	Matrix Spike	T	Solid	6010B	280-60002
280-14025-2	J1H059	T	Solid	6010B	280-60002
280-14025-3	J1H060	T	Solid	6010B	280-60002
280-14025-4	J1H061	T	Solid	6010B	280-60002
280-14025-5	J1H062	T	Solid	6010B	280-60002
280-14025-6	J1H063	T	Solid	6010B	280-60002
280-14025-7	J1H064	T	Solid	6010B	280-60002
280-14025-8	J1H065	T	Solid	6010B	280-60002

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-61012					
LCS 280-60029/2-B	Lab Control Sample	P	Solid	3010A	280-60029
LB 280-60029/1-B	TCLP SPLPE Leachate Blank	P	Solid	3010A	280-60029
280-14025-3	J1H060	P	Solid	3010A	280-60029
280-14025-3DU	Duplicate	P	Solid	3010A	280-60029
280-14025-3MS	Matrix Spike	P	Solid	3010A	280-60029
Prep Batch: 280-61083					
LCS 280-60029/2-C	Lab Control Sample	P	Solid	7470A	280-60029
LB 280-60029/1-C	TCLP SPLPE Leachate Blank	P	Solid	7470A	280-60029
280-14025-3	J1H060	P	Solid	7470A	280-60029
280-14025-3DU	Duplicate	P	Solid	7470A	280-60029
280-14025-3MS	Matrix Spike	P	Solid	7470A	280-60029
Analysis Batch:280-61374					
LCS 280-60029/2-B	Lab Control Sample	P	Solid	6010B	280-61012
LB 280-60029/1-B	TCLP SPLPE Leachate Blank	P	Solid	6010B	280-61012
280-14025-3	J1H060	P	Solid	6010B	280-61012
280-14025-3DU	Duplicate	P	Solid	6010B	280-61012
280-14025-3MS	Matrix Spike	P	Solid	6010B	280-61012
Analysis Batch:280-61445					
LCS 280-60029/2-C	Lab Control Sample	P	Solid	7470A	280-61083
LB 280-60029/1-C	TCLP SPLPE Leachate Blank	P	Solid	7470A	280-61083
280-14025-3	J1H060	P	Solid	7470A	280-61083
280-14025-3DU	Duplicate	P	Solid	7470A	280-61083
280-14025-3MS	Matrix Spike	P	Solid	7470A	280-61083

Report Basis
P = TCLP
T = Total

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-60110					
280-14025-1	J1H058	T	Solid	D-2216	
280-14025-1DU	Duplicate	T	Solid	D-2216	
280-14025-2	J1H059	T	Solid	D-2216	
280-14025-3	J1H060	T	Solid	D-2216	
280-14025-4	J1H061	T	Solid	D-2216	
280-14025-5	J1H062	T	Solid	D-2216	
280-14025-6	J1H063	T	Solid	D-2216	
280-14025-7	J1H064	T	Solid	D-2216	
280-14025-8	J1H065	T	Solid	D-2216	

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Method Blank - Batch: 280-60025

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-60025/1-A	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Client Matrix:	Solid	Prep Batch:	280-60025	Lab File ID:	Y9188.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	03/31/2011 1809	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	10	U	10	330
Acenaphthylene	17	U	17	330
Anthracene	17	U	17	330
Benzo[a]anthracene	20	U	20	330
Benzo[a]pyrene	20	U	20	330
Benzo[b]fluoranthene	26	U	26	330
Benzo[ghi]perylene	16	U	16	330
Benzo[k]fluoranthene	40	U	40	330
Bis(2-chloroethoxy)methane	23	U	23	330
Bis(2-chloroethyl)ether	16	U	16	330
bis (2-chloroisopropyl) ether	23	U	23	330
Bis(2-ethylhexyl) phthalate	46	U	46	330
4-Bromophenyl phenyl ether	19	U	19	330
Butyl benzyl phthalate	43	U	43	330
Carbazole	36	U	36	330
4-Chloroaniline	81	U	81	330
4-Chloro-3-methylphenol	66	U	66	330
2-Chloronaphthalene	9.9	U	9.9	330
2-Chlorophenol	21	U	21	330
4-Chlorophenyl phenyl ether	21	U	21	330
Chrysene	27	U	27	330
Dibenz(a,h)anthracene	19	U	19	330
Dibenzofuran	20	U	20	330
1,2-Dichlorobenzene	22	U	22	330
1,3-Dichlorobenzene	12	U	12	330
1,4-Dichlorobenzene	14	U	14	330
3,3'-Dichlorobenzidine	89	U	89	660
2,4-Dichlorophenol	9.9	U	9.9	330
Diethyl phthalate	26	U	26	330
2,4-Dimethylphenol	66	U	66	330
Dimethyl phthalate	23	U	23	330
Di-n-butyl phthalate	29	U	29	330
4,6-Dinitro-2-methylphenol	330	U	330	660
2,4-Dinitrophenol	330	U	330	820
2,4-Dinitrotoluene	66	U	66	330
2,6-Dinitrotoluene	28	U	28	330
Di-n-octyl phthalate	14	U	14	330
Fluoranthene	36	U	36	330
Fluorene	18	U	18	330
Hexachlorobenzene	29	U	29	330
Hexachlorobutadiene	9.9	U	9.9	330
Hexachlorocyclopentadiene	50	U	50	330
Hexachloroethane	21	U	21	330
Indeno[1,2,3-cd]pyrene	22	U	22	330
Isophorone	17	U	17	330

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Method Blank - Batch: 280-60025

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-60025/1-A	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Client Matrix:	Solid	Prep Batch:	280-60025	Lab File ID:	Y9188.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	03/31/2011 1809	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
2-Methylnaphthalene	19	U	19	330
2-Methylphenol	13	U	13	330
3 & 4 Methylphenol	33	U	33	330
Naphthalene	31	U	31	330
2-Nitroaniline	50	U	50	330
3-Nitroaniline	73	U	73	330
4-Nitroaniline	72	U	72	330
Nitrobenzene	22	U	22	330
2-Nitrophenol	9.9	U	9.9	330
4-Nitrophenol	96	U	96	660
N-Nitrosodi-n-propylamine	31	U	31	330
N-Nitrosodiphenylamine	21	U	21	330
Pentachlorophenol	330	U	330	660
Phenanthrene	17	U	17	330
Phenol	18	U	18	330
Pyrene	12	U	12	330
1,2,4-Trichlorobenzene	28	U	28	330
2,4,5-Trichlorophenol	9.9	U	9.9	330
2,4,6-Trichlorophenol	9.9	U	9.9	330

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	85	50 - 120
2-Fluorophenol	88	53 - 120
Nitrobenzene-d5	85	50 - 120
Phenol-d5	90	52 - 120
Terphenyl-d14	92	55 - 120
2,4,6-Tribromophenol	78	51 - 120

Method Blank TICs- Batch: 280-60025

Cas Number	Analyte	RT	Est. Result	Qual
2213-23-2	Heptane, 2,4-dimethyl-	3.01	217	N J
2216-30-0	Heptane, 2,5-dimethyl-	3.13	279	N J
	Unknown	2.96	164	N J
	Unknown	1.79	165	N J
	Unknown	1.86	190	N J
	Unknown	3.21	3110	N J

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Lab Control Sample - Batch: 280-60025

Method: 8270C
Preparation: 3550C

Lab Sample ID:	LCS 280-60025/2-A	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Client Matrix:	Solid	Prep Batch:	280-60025	Lab File ID:	Y9189.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.7 g
Analysis Date:	03/31/2011 1829	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	2610	2220	85	52 - 120	
Anthracene	2610	2270	87	57 - 120	
Carbazole	2610	2280	87	54 - 120	
4-Chloro-3-methylphenol	2610	2250	86	57 - 120	
2-Chlorophenol	2610	2250	87	53 - 120	
1,4-Dichlorobenzene	2610	2150	82	46 - 120	
2,4-Dinitrotoluene	2610	2360	91	53 - 120	
2-Methylnaphthalene	2610	2230	86	55 - 120	
2-Methylphenol	2610	2290	88	51 - 120	
4-Nitrophenol	2610	2320	89	41 - 120	
N-Nitrosodi-n-propylamine	2610	2240	86	51 - 120	
Pentachlorophenol	2610	2080	80	30 - 120	
Phenol	2610	2320	89	54 - 120	
Pyrene	2610	2300	88	50 - 120	
1,2,4-Trichlorobenzene	2610	2080	80	50 - 120	
2,4,6-Trichlorophenol	2610	2260	87	50 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	86	50 - 120
2-Fluorophenol	89	53 - 120
Nitrobenzene-d5	86	50 - 120
Phenol-d5	88	52 - 120
Terphenyl-d14	88	55 - 120
2,4,6-Tribromophenol	86	51 - 120

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-60025

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-14025-2	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Client Matrix:	Solid	Prep Batch:	280-60025	Lab File ID:	Y9194.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.6 g
Analysis Date:	03/31/2011 2010			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-14025-2	Analysis Batch:	280-60409	Instrument ID:	MSS_Y
Client Matrix:	Solid	Prep Batch:	280-60025	Lab File ID:	Y9195.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	03/31/2011 2030			Final Weight/Volume:	1000 uL
Prep Date:	03/30/2011 1938			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	76	83	52 - 120	13	30		
Anthracene	79	86	57 - 120	12	30		
Carbazole	79	87	54 - 120	15	30		
4-Chloro-3-methylphenol	79	89	57 - 120	16	30		
2-Chlorophenol	78	85	53 - 120	13	30		
1,4-Dichlorobenzene	72	79	46 - 120	13	30		
2,4-Dinitrotoluene	79	89	53 - 120	16	30		
2-Methylnaphthalene	77	84	55 - 120	13	30		
2-Methylphenol	79	88	51 - 120	15	30		
4-Nitrophenol	77	88	41 - 120	19	30		
N-Nitrosodi-n-propylamine	78	89	51 - 120	17	30		
Pentachlorophenol	61	80	30 - 120	32	30		*
Phenol	81	88	54 - 120	13	30		
Pyrene	83	65	50 - 120	14	38		
1,2,4-Trichlorobenzene	71	78	50 - 120	13	30		
2,4,6-Trichlorophenol	78	87	50 - 120	15	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl	75	84	50 - 120
2-Fluorophenol	79	86	53 - 120
Nitrobenzene-d5	77	85	50 - 120
Phenol-d5	80	88	52 - 120
Terphenyl-d14	78	90	55 - 120
2,4,6-Tribromophenol	74	84	51 - 120

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Method Blank - Batch: 280-60016

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-60016/1-A	Analysis Batch:	280-60726	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-60016	Lab File ID:	054F5401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.9 g
Analysis Date:	04/02/2011 1027	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	03/30/2011 1827			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	2.7	U	2.7	9.7
Aroclor 1221	7.8	U	7.8	16
Aroclor 1232	1.9	U	1.9	9.7
Aroclor 1242	4.5	U	4.5	9.7
Aroclor 1248	4.5	U	4.5	9.7
Aroclor 1254	2.5	U	2.5	9.7
Aroclor 1260	2.5	U	2.5	9.7

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	106	59 - 130
Tetrachloro-m-xylene	94	53 - 128

Lab Control Sample - Batch: 280-60016

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-60016/2-A	Analysis Batch:	280-60726	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-60016	Lab File ID:	055F5501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.8 g
Analysis Date:	04/02/2011 1049	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	03/30/2011 1827			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	32.5	33.0	102	54 - 132	
Aroclor 1260	32.5	35.9	111	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	108	59 - 130
Tetrachloro-m-xylene	98	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-60016

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-14025-1	Analysis Batch:	280-60726	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-60016	Lab File ID:	057F5701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	04/02/2011 1132			Final Weight/Volume:	5000 uL
Prep Date:	03/30/2011 1827			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-14025-1	Analysis Batch:	280-60726	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-60016	Lab File ID:	059F5901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	04/02/2011 1215			Final Weight/Volume:	5000 uL
Prep Date:	03/30/2011 1827			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	103	108	54 - 132	4	26		
Aroclor 1260	105	112	62 - 129	5	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	104	102	59 - 130
Tetrachloro-m-xylene	102	101	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Method Blank - Batch: 280-60060

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-60060/1-A	Analysis Batch:	280-60588	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-60060	Lab File ID:	005F0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.5 g
Analysis Date:	03/31/2011 1625	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/31/2011 0009			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	920	U	920	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: 280-60060

Method: NWTPH-Dx
Preparation: 3550C

LCS Lab Sample ID:	LCS 280-60060/2-A	Analysis Batch:	280-60588	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-60060	Lab File ID:	006F0601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	32.2 g
Analysis Date:	03/31/2011 1658	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/31/2011 0009			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-60060/6-A	Analysis Batch:	280-60588	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-60060	Lab File ID:	007F0701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.4 g
Analysis Date:	03/31/2011 1731	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	03/31/2011 0009			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
C10-C36	86	79	57 - 115	6	23		
C10-C28	86	79	53 - 115	6	23		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
o-Terphenyl	74	67	49 - 115

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Method Blank - Batch: 280-60002

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-60002/1-A	Analysis Batch:	280-60525	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-60002	Lab File ID:	26A040111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/01/2011 1359	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 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	0.156	B	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	14.1	U	14.1	50.0
Chromium	0.058	U	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.22	U	0.22	1.0
Iron	3.8	U	3.8	5.0
Magnesium	3.7	U	3.7	20.0
Manganese	0.112	B	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	0.444	B	0.40	1.0

Method Blank - Batch: 280-60002

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-60002/1-A	Analysis Batch:	280-60709	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-60002	Lab File ID:	26a040411.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/04/2011 1323	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Lead	0.27	U	0.27	0.50

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Lab Control Sample - Batch: 280-60002

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-60002/2-A	Analysis Batch:	280-60525	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-60002	Lab File ID:	26A040111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/01/2011 1401	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	200.5	100	82 - 116	
Antimony	50.0	50.23	100	82 - 110	
Arsenic	100	101.3	101	85 - 110	
Barium	200	203.3	102	87 - 112	
Beryllium	5.00	5.02	100	84 - 114	
Boron	100	98.54	99	81 - 110	
Cadmium	10.0	9.88	99	87 - 110	
Calcium	5000	5014	100	82 - 114	
Chromium	20.0	20.54	103	84 - 114	
Cobalt	50.0	50.45	101	87 - 110	
Copper	25.0	25.75	103	88 - 110	
Iron	100	105.5	106	87 - 120	
Magnesium	5000	4992	100	90 - 110	
Manganese	50.0	50.28	101	88 - 110	
Molybdenum	100	107.3	107	86 - 110	
Nickel	50.0	51.09	102	87 - 110	
Potassium	5000	5133	103	89 - 110	
Selenium	200	205.6	103	83 - 110	
Silicon	1000	403.6	40	10 - 70	
Silver	5.00	5.08	102	87 - 114	
Sodium	5000	5190	104	90 - 112	
Vanadium	50.0	50.87	102	88 - 110	
Zinc	50.0	50.28	101	76 - 114	

Lab Control Sample - Batch: 280-60002

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-60002/2-A	Analysis Batch:	280-60709	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-60002	Lab File ID:	26a040411.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/04/2011 1325	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Lead	50.0	47.56	95	86 - 110	

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Matrix Spike - Batch: 280-60002

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14025-1	Analysis Batch:	280-60525	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-60002	Lab File ID:	26A040111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	04/01/2011 1410	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	6400		197	8241	931	50 - 200	4
Antimony	0.81		49.4	32.82	65	20 - 200	
Arsenic	2.3		98.7	97.73	97	76 - 111	
Barium	48.9		197	244.5	99	52 - 159	
Beryllium	0.032	U	4.94	4.64	94	72 - 105	
Boron	1.2	B	98.7	90.08	90	75 - 107	
Cadmium	0.040	U	9.87	9.35	95	40 - 130	
Calcium	5680		4940	11700	122	43 - 165	
Chromium	10.2		19.7	31.86	110	70 - 200	
Cobalt	5.4		49.4	52.43	95	72 - 106	
Copper	13.9		24.7	38.31	99	37 - 187	
Iron	13800		98.7	15230	1464	70 - 200	4
Magnesium	4150		4940	9492	108	64 - 145	
Manganese	265		49.4	329.8	132	40 - 200	4
Molybdenum	0.34	B	98.7	98.42	99	75 - 103	
Nickel	10.6		49.4	59.44	99	61 - 126	
Potassium	957		4940	6024	103	56 - 172	
Selenium	0.84	U	197	192.3	97	76 - 104	
Silicon	258		987	538.8	28	20 - 200	
Silver	0.16	U	4.94	4.83	98	75 - 141	
Sodium	148		4940	5289	104	78 - 111	
Vanadium	36.4		49.4	90.46	110	50 - 169	
Zinc	32.8		49.4	81.24	98	70 - 200	

Matrix Spike - Batch: 280-60002

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14025-1	Analysis Batch:	280-60709	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-60002	Lab File ID:	26a040411.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	04/04/2011 1334	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Lead	3.0	49.4	48.36	92	70 - 200	

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Duplicate - Batch: 280-60002

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14025-1	Analysis Batch:	280-60525	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-60002	Lab File ID:	26A040111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.12 g
Analysis Date:	04/01/2011 1408	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	6400		6514	2	40	
Antimony	0.81		0.35	NC	40	U
Arsenic	2.3		2.30	0.6	30	
Barium	48.9		48.27	1	30	
Beryllium	0.032	U	0.031	NC	30	U
Boron	1.2	B	1.14	7	30	B
Cadmium	0.040	U	0.038	NC	30	U
Calcium	5680		5716	0.6	30	
Chromium	10.2		11.02	8	40	
Cobalt	5.4		5.60	4	30	
Copper	13.9		14.77	6	30	
Iron	13800		14170	3	40	
Magnesium	4150		4259	3	30	
Manganese	265		269.5	2	40	
Molybdenum	0.34	B	0.24	NC	30	U
Nickel	10.6		11.32	7	30	
Potassium	957		934.2	2	40	
Selenium	0.84	U	0.80	NC	30	U
Silicon	258		301.9	16	40	
Silver	0.16	U	0.15	NC	30	U
Sodium	148		153.7	4	30	
Vanadium	36.4		36.19	0.5	30	
Zinc	32.8		34.04	4	40	

Duplicate - Batch: 280-60002

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14025-1	Analysis Batch:	280-60709	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-60002	Lab File ID:	26a040411.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.12 g
Analysis Date:	04/04/2011 1332	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/01/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Lead	3.0	3.31	9	40	

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

TCLP SPLPE Leachate Blank - Batch: 280-61012

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	LB 280-60029/1-B	Analysis Batch:	280-61374	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-61012	Lab File ID:	26c040711.asc
Dilution:	1.0	Leach Batch:	280-60029	Initial Weight/Volume:	10 mL
Analysis Date:	04/08/2011 0930	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	04/07/2011 1500				
Leach Date:	03/30/2011 1716				

Analyte	Result	Qual	MDL	RL
Arsenic	0.022	U	0.022	0.50
Barium	0.00865	B	0.0020	1.0
Cadmium	0.0020	U	0.0020	0.10
Chromium	0.0030	U	0.0030	0.50
Lead	0.013	U	0.013	0.50
Selenium	0.024	U	0.024	0.10
Silver	0.00425	B	0.0040	0.50

Lab Control Sample - Batch: 280-61012

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	LCS 280-60029/2-B	Analysis Batch:	280-61374	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-61012	Lab File ID:	26c040711.asc
Dilution:	1.0	Leach Batch:	280-60029	Initial Weight/Volume:	10 mL
Analysis Date:	04/08/2011 0932	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	04/07/2011 1500				
Leach Date:	03/30/2011 1716				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	4.00	4.51	113	80 - 120	
Barium	12.0	12.83	107	80 - 120	
Cadmium	1.10	1.18	107	80 - 120	
Chromium	5.20	6.00	115	80 - 120	
Lead	5.50	6.16	112	80 - 120	
Selenium	3.00	3.27	109	80 - 120	
Silver	1.05	1.09	104	80 - 120	

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Matrix Spike - Batch: 280-61012

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	280-14025-3	Analysis Batch:	280-61374	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-61012	Lab File ID:	26c040711.asc
Dilution:	1.0	Leach Batch:	280-60029	Initial Weight/Volume:	10 mL
Analysis Date:	04/08/2011 0939	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	04/07/2011 1500				
Leach Date:	03/30/2011 1716				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	0.022	U	4.00	4.34	109	80 - 120	
Barium	0.41	B	12.0	12.67	102	80 - 120	
Cadmium	0.0020	U	1.10	1.13	103	80 - 120	
Chromium	0.0055	B	5.20	5.80	111	80 - 120	
Lead	0.059	B	5.50	5.96	107	80 - 120	
Selenium	0.038	B	3.00	3.13	103	80 - 120	
Silver	0.0058	B	1.05	1.05	99	80 - 120	

Duplicate - Batch: 280-61012

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	280-14025-3	Analysis Batch:	280-61374	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-61012	Lab File ID:	26c040711.asc
Dilution:	1.0	Leach Batch:	280-60029	Initial Weight/Volume:	10 mL
Analysis Date:	04/08/2011 0942	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	04/07/2011 1500				
Leach Date:	03/30/2011 1716				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Arsenic	0.022	U	0.022	NC	20	U
Barium	0.41	B	0.378	8	20	B
Cadmium	0.0020	U	0.0020	NC	20	U
Chromium	0.0055	B	0.00565	3	20	B
Lead	0.059	B	0.0450	27	20	B M
Selenium	0.038	B	0.0344	11	20	B
Silver	0.0058	B	0.0040	NC	20	U

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

TCLP SPLPE Leachate Blank - Batch: 280-61083

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	LB 280-60029/1-C	Analysis Batch:	280-61445	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-61083	Lab File ID:	110407AJ.TXT
Dilution:	1.0	Leach Batch:	280-60029	Initial Weight/Volume:	30 mL
Analysis Date:	04/08/2011 0122	Units:	mg/L	Final Weight/Volume:	30 mL
Prep Date:	04/07/2011 1030				
Leach Date:	03/30/2011 1716				

Analyte	Result	Qual	MDL	RL
Mercury	0.0000690	B	0.000030	0.0020

Lab Control Sample - Batch: 280-61083

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	LCS 280-60029/2-C	Analysis Batch:	280-61445	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-61083	Lab File ID:	110407AJ.TXT
Dilution:	1.0	Leach Batch:	280-60029	Initial Weight/Volume:	30 mL
Analysis Date:	04/08/2011 0124	Units:	mg/L	Final Weight/Volume:	30 mL
Prep Date:	04/07/2011 1030				
Leach Date:	03/30/2011 1716				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00500	0.00690	138	90 - 116	N

Matrix Spike - Batch: 280-61083

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	280-14025-3	Analysis Batch:	280-61445	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-61083	Lab File ID:	110407AJ.TXT
Dilution:	1.0	Leach Batch:	280-60029	Initial Weight/Volume:	30 mL
Analysis Date:	04/08/2011 0136	Units:	mg/L	Final Weight/Volume:	30 mL
Prep Date:	04/07/2011 1030				
Leach Date:	03/30/2011 1716				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00040	B	0.00500	0.00748	142	90 - 116	N

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Duplicate - Batch: 280-61083

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	280-14025-3	Analysis Batch:	280-61445	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-61083	Lab File ID:	110407AJ.TXT
Dilution:	1.0	Leach Batch:	280-60029	Initial Weight/Volume:	30 mL
Analysis Date:	04/08/2011 0133	Units:	mg/L	Final Weight/Volume:	30 mL
Prep Date:	04/07/2011 1030				
Leach Date:	03/30/2011 1716				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.00040	B	0.000416	3	20	B N

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Method Blank - Batch: 280-60097

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-60097/1-A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-60097	Lab File ID:	110331AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/31/2011 2057	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-60097

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-60097/2-A	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-60097	Lab File ID:	110331AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/31/2011 2059	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.447	107	87 - 111	

Matrix Spike - Batch: 280-60097

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-14025-5	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-60097	Lab File ID:	110331AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	03/31/2011 2123	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.051	0.437	0.489	100	87 - 111	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Duplicate - Batch: 280-60097

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-14025-5	Analysis Batch:	280-60271	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-60097	Lab File ID:	110331AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.61 g
Analysis Date:	03/31/2011 2116	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	03/31/2011 1130				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.051	0.0518	3	20	

Client: Washington Closure Hanford

Job Number: 280-14025-1
Sdg Number: JP0146

Duplicate - Batch: 280-60110

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-14025-1	Analysis Batch:	280-60110	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:	03/31/2011 0916	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	4.4	4.5	2	20	

4.4°C IRFP JB 3/30/11

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-182-066	Page 1 of 2

Collector Ojeda, AJ	Company Contact JL Russell	Telephone No. 509-540-6502	Project Coordinator KESSNER, JH
Price Code ~~8L~~ 8J (JR 3/28/11)	Data Turnaround ~~21 Days~~ 7 Days (JR 3/28/11)		
Project Designation ARRA 100F Remaining Sites Remediation - Soil In-Process	Sampling Location 100 F-61 Pre-Verification (2)		SAF No. RC-182
Ice Chest No. ERC-02-803	Field Logbook No. EL-1651	COA S00F618100	Method of Shipment FedEx
Shipped To (JR 3/28/11) TestAmerica Incorporated, ~~Richland~~ Denver	Offsite Property No. NA		Bill of Lading/Air Bill No. 7945 8716 4734

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 degrees C

Preservation	Cool 4C	None	Cool 4C	Cool 4C	Cool 4C						
Type of Container	G/P	G/P	G	aG	aG						
No. of Container(s)	1	1	1	1	1						
Volume	60mL	120mL	60mL	60mL	60mL						
SAMPLE ANALYSIS	See item (1) in Special Instructions.	See item (2) in Special Instructions.	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082						

Sample No.	Matrix *	Sample Date	Sample Time										Location
J1H058	SOIL	3-28-11	0935	X	X	X	X	X					1
J1H059	SOIL	3-28-11	0950	X	X	X	X	X					2
J1H060	SOIL	3-28-11	1000	X	X	X	X	X					3
J1H061	SOIL	3-28-11	1005	X	X	X	X	X					4
J1H062	SOIL	3-28-11	1010	X	X	X	X	X					5

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
AJ Ojeda	3/28/11 @ 1045	Jen Russell Jen Russell	3/28/11 1045
Jen Russell Jen Russell	3/28/11 1555	J. E. Behl	1555 3-28-11
J. E. Behl	1030 3-29-11	FED EX	
		3/30/11 930	

SPECIAL INSTRUCTIONS

Please leach and hold TCLP Metals, per Joan Kessner

(1) ICP Metals - 6010TR (Client 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}

(2) Metals by ICP (TCLP) - 1311/6010 {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Mercury (TCLP) - 1311/7470 {Mercury}

REVIEWED BY JF DATE 3-29-4

JP0146

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=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-182-066	Page 2 of 2

Collector Ojeda, AJ	Company Contact JL Russell	Telephone No. 509-540-6502	Project Coordinator KESSNER, JH	Price Code ~~8L~~ 8J JR 3/28/11	Data Turnaround ~~21 Days~~ 7 Days JR 3/28/11
Project Designation ARRA 100F Remaining Sites Remediation - Soil In-Process	Sampling Location 100 F-61 Pre-Verification (2)		SAF No. RC-182		
Ice Chest No. ERC-02-803	Field Logbook No. EL-1651	COA S00F618100	Method of Shipment FedEx		
Shipped To 3/28/11 TestAmerica Incorporated ~~Richland~~ Denver	Offsite Property No. NA		Bill of Lading/Air Bill No. 7945 8716 4734		

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 degrees C

Preservation	Cool 4C	None	Cool 4C	Cool 4C	Cool 4C					
Type of Container	G/P	G/P	G	aG	aG					
No. of Container(s)	1	1	1	1	1					
Volume	60mL	120mL	60mL	60mL	60mL					
SAMPLE ANALYSIS	See item (1) in Special Instructions.	See item (2) in Special Instructions.	TPH-Diesel Range - WTPH-D +	Semi-VOA - 8270A (TCL)	PCBs - 8082					

Sample No.	Matrix *	Sample Date	Sample Time											
J1H063	SOIL	3-28-11	1015	X	X	X	X	X						6
J1H064	SOIL	3-28-11	1025	X	X	X	X	X						7
J1H065	SOIL	3-28-11	1030	X	X	X	X	X						8

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
AJ Ojeda	3/28/11 @1045	JenRussell JenRussell	3/28/11 1045
JenRussell JenRussell	3/28/11 1555	J. E. Beck	1555 3-28-11
J. E. Beck WEH	1030 3-29-11	FED EX	
			3/30/11 930

SPECIAL INSTRUCTIONS

Please leach and hold TCLP Metals, per Joan Kessner

(1) ICP Metals - 6010TR (Client 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}

(2) Metals by ICP (TCLP) - 1311/6010 {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Mercury (TCLP) - 1311/7470 {Mercury}

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=Sludge
W = Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
WI=Wipe
L=Liquid
V=Vegetation
X=Other

REVIEWED BY AJ DATE 3-29-11

JP0146

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 TR - Solid

Analytical Due:

Report Due: 4/6/11 Rush (5 day TAT)

Sample Check-in List

Date/Time Received: 3/30/11 938 GM Screen Result 12 microR/hr

Client: Washington Closure Hanford SDG #: JP0146 NA[ ] SAF #: RC-182 NA [ ]

Job Number: 14025 Chain of Custody # RC-182-066

Shipping Container ID: ERC-02-803 Air Bill # 7945871647 34

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: 4.4 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [✓]
6. Number of samples in shipping container: 8
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: 3/30/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person Contacted ___

[ ] No action necessary; process as is.

Project Manager [signature] Date 3/31/11

LS-023, Rev. 7, 1/08

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

RICHLAND, WA 99354

FedEx. Express

J11151102250225

Ship Date: 29MAR11
ActWgt: 34.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

Ref #
Invoice #
PO #
Dept #

WED - 30 MAR A1
PRIORITY OVERNIGHT

TRK# 7945 8716 4734
0201

XH WHHA

80002
CO-U8
DEN

50DG3/26A8/7EFB

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