0095469

SAF-RC-107
100-H Remaining Sites Burial Grounds – Soil Full Protocol
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 4/7/11
NITIAL/DATE

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APR 19 2011
EDMC

COMMENTS:

SDG JP0125 SAF-RC-107

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Waste Site: 116-H-5 Verification Resampling

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-13664-1

SDG Number: JP0125

Job Description: SAF# RC-107

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

Attention: Joan H Kessner

Approved for release.
Kae E Yoder
Project Manager II
4/1/2011 4:04 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
04/01/2011

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

The Lab Certification ID# is E87667.

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

TestAmerica Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac

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CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-13664-1

SDG #: JP0125
SAF#: RC-107

Date SDG Closed: March 18, 2011
Data Deliverable: 7 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1FKK1	280-13664-1	6010/7471/8270A/8310	6010B/7471A/8270C/8310
J1FKK2	280-13664-2	6010/7471/8270A/8310	6010B/7471A/8270C/8310
J1FKK3	280-13664-3	6010/7471/8270A/8310	6010B/7471A/8270C/8310
J1FKK4	280-13664-4	6010/7471/8270A/8310	6010B/7471A/8270C/8310
J1FKK5	280-13664-5	6010/7471/8270A/8310	6010B/7471A/8270C/8310
J1FKK6	280-13664-6	6010/7471/8270A/8310	6010B/7471A/8270C/8310
J1FKK7	280-13664-7	6010/7471/8270A/8310	6010B/7471A/8270C/8310
J1FKK8	280-13664-8	6010/7471/8270A/8310	6010B/7471A/8270C/8310
J1FKK9	280-13664-9	6010/7471/8270A/8310	6010B/7471A/8270C/8310
J1FKL0	280-13664-10	6010/7471/8270A/8310	6010B/7471A/8270C/8310
J1FKL1	280-13664-11	6010/7471/8270A/8310	6010B/7471A/8270C/8310
J1FKL2	280-13664-12	6010/7471/8270A/8310	6010B/7471A/8270C/8310
J1FKL3	280-13664-13	6010/7471/8270A/8310	6010B/7471A/8270C/8310

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 3/18/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 2.4 C, 2.7 C, 3.4 C and 4.7 C.

GC/MS SEMIVOLATILES - SW846 8270C
Compounds Benzo(b)fluoranthene and Benzo(k)fluoranthene were unresolved in samples J1FKK1, J1FKK2 and J1FKK7 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".

No other anomalies were encountered.

HPLC - SW846 8310 - PAHs

The RPD between the primary and confirmation columns exceeded 40% for analytes in samples J1FKK4 and J1FKK7. The lower of the two values have been reported, as matrix interference is evident. Associated results have been flagged with an "X".

No other anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A

Serial dilution of a digestate in batch 280-58305 indicates that physical and chemical interferences are present for Cobalt, Iron, Nickel and Zinc. Results have been flagged with an "X".

Low levels of Barium, Calcium and Magnesium are present in the method blank associated with batch 280-58305. 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 J1FKK1; therefore, control limits are not applicable.

Silicon was recovered outside the control limits in the SW846 6010B Matrix Spike performed on sample J1FKK1, and the associated sample result has been flagged "N". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

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
	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.
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
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.
HPLC/IC		
	U	Analyzed for but not detected.
	X	More than 40% difference between columns, lower result reported.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds (GC/MS)	TAL DEN	SW846 8270C	
Ultrasonic Extraction	TAL DEN		SW846 3550C
PAHs (HPLC)	TAL DEN	SW846 8310	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury	TAL DEN		SW846 7471A
ASTM D-2216	TAL DEN	ASTM D-2216	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

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: 280-13664-1
Sdg Number: JP0125

Method	Analyst	Analyst ID
SW846 8270C	Kiekel, Daniel C	DCK
SW846 6010B	Bowen, Heidi E	HEB
SW846 7471A	Stoltz, Katie	KS
ASTM D-2216	Berry III, Paul B	PBB
SW846 8310	Hall, Koley J	KJH

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-13664-1	J1FKK1	Solid	03/16/2011 1400	03/18/2011 0930
280-13664-2	J1FKK2	Solid	03/16/2011 1356	03/18/2011 0930
280-13664-3	J1FKK3	Solid	03/16/2011 1405	03/18/2011 0930
280-13664-4	J1FKK4	Solid	03/16/2011 1352	03/18/2011 0930
280-13664-5	J1FKK5	Solid	03/16/2011 1345	03/18/2011 0930
280-13664-6	J1FKK6	Solid	03/16/2011 1340	03/18/2011 0930
280-13664-7	J1FKK7	Solid	03/16/2011 1310	03/18/2011 0930
280-13664-8	J1FKK8	Solid	03/16/2011 1305	03/18/2011 0930
280-13664-9	J1FKK9	Solid	03/16/2011 1343	03/18/2011 0930
280-13664-10	J1FKL0	Solid	03/16/2011 1330	03/18/2011 0930
280-13664-11	J1FKL1	Solid	03/16/2011 1300	03/18/2011 0930
280-13664-12	J1FKL2	Solid	03/16/2011 1350	03/18/2011 0930
280-13664-13	J1FKL3	Solid	03/16/2011 1305	03/18/2011 0930

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK1**

Lab Sample ID: 280-13664-1
Client Matrix: Solid % Moisture: 7.0

Date Sampled: 03/16/2011 1400
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1876.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Date Analyzed:	03/21/2011 1906			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	350
Acenaphthylene		18	U	18	350
Anthracene		18	U	18	350
Benzo[a]anthracene		26	J	21	350
Benzo[a]pyrene		21	U	21	350
Benzo[b]fluoranthene		43	J K	28	350
Benzo[ghi]perylene		17	U	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		49	U	49	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		46	U	46	350
Carbazole		38	U	38	350
4-Chloroaniline		87	U	87	350
4-Chloro-3-methylphenol		71	U	71	350
2-Chloronaphthalene		11	U	11	350
2-Chlorophenol		22	U	22	350
4-Chlorophenyl phenyl ether		22	U	22	350
Chrysene		29	U	29	350
Dibenz(a,h)anthracene		20	U	20	350
Dibenzofuran		21	U	21	350
1,2-Dichlorobenzene		24	U	24	350
1,3-Dichlorobenzene		13	U	13	350
1,4-Dichlorobenzene		15	U	15	350
3,3'-Dichlorobenzidine		96	U	96	710
2,4-Dichlorophenol		11	U	11	350
Diethyl phthalate		28	U	28	350
2,4-Dimethylphenol		71	U	71	350
Dimethyl phthalate		25	U	25	350
Di-n-butyl phthalate		31	U	31	350
4,6-Dinitro-2-methylphenol		350	U	350	710
2,4-Dinitrophenol		360	U	360	880
2,4-Dinitrotoluene		71	U	71	350
2,6-Dinitrotoluene		30	U	30	350
Di-n-octyl phthalate		15	U	15	350
Fluoranthene		45	J	38	350
Fluorene		19	U	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		24	U	24	350
Isophorone		18	U	18	350
2-Methylnaphthalene		20	U	20	350

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK1**

Lab Sample ID: 280-13664-1
Client Matrix: Solid
% Moisture: 7.0

Date Sampled: 03/16/2011 1400
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1876.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Date Analyzed:	03/21/2011 1906			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			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		53	U	53	350
3-Nitroaniline		78	U	78	350
4-Nitroaniline		77	U	77	350
Nitrobenzene		24	U	24	350
2-Nitrophenol		11	U	11	350
4-Nitrophenol		100	U	100	710
N-Nitrosodi-n-propylamine		33	U	33	350
N-Nitrosodiphenylamine		22	U	22	350
Pentachlorophenol		350	U	350	710
Phenanthrene		23	J	18	350
Phenol		19	U	19	350
Pyrene		43	J	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	75		50 - 120
2-Fluorophenol	76		53 - 120
Nitrobenzene-d5	72		50 - 120
Phenol-d5	77		52 - 120
Terphenyl-d14	90		55 - 120
2,4,6-Tribromophenol	84		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK1**

Lab Sample ID: 280-13664-1
Client Matrix: Solid

% Moisture: 7.0

Date Sampled: 03/16/2011 1400
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1876.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Date Analyzed:	03/21/2011 1906			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
2213-23-2	Heptane, 2,4-dimethyl-	2.80	150	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.92	150	N J
	Unknown	2.99	3300	N J

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK2**

Lab Sample ID: 280-13664-2
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 03/16/2011 1356
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1877.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Date Analyzed:	03/21/2011 1925			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	350
Acenaphthylene		18	U	18	350
Anthracene		18	U	18	350
Benzo[a]anthracene		29	J	21	350
Benzo[a]pyrene		23	J	21	350
Benzo[b]fluoranthene		47	J K	28	350
Benzo[ghi]perylene		17	U	17	350
Benzo[k]fluoranthene		42	U K	42	350
Bis(2-chloroethoxy)methane		24	U	24	350
Bis(2-chloroethyl)ether		18	U	18	350
bis (2-chloroisopropyl) ether		24	U	24	350
Bis(2-ethylhexyl) phthalate		49	U	49	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		46	U	46	350
Carbazole		38	U	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		29	J	29	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		95	U	95	700
2,4-Dichlorophenol		11	U	11	350
Diethyl phthalate		28	U	28	350
2,4-Dimethylphenol		70	U	70	350
Dimethyl phthalate		24	U	24	350
Di-n-butyl phthalate		31	U	31	350
4,6-Dinitro-2-methylphenol		350	U	350	700
2,4-Dinitrophenol		350	U	350	870
2,4-Dinitrotoluene		70	U	70	350
2,6-Dinitrotoluene		30	U	30	350
Di-n-octyl phthalate		15	U	15	350
Fluoranthene		40	J	38	350
Fluorene		19	U	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		23	U	23	350
Isophorone		18	U	18	350
2-Methylnaphthalene		20	U	20	350

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK2**

Lab Sample ID: 280-13664-2
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 03/16/2011 1356
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1877.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Date Analyzed:	03/21/2011 1925			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			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		53	U	53	350
3-Nitroaniline		77	U	77	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		18	U	18	350
Phenol		19	U	19	350
Pyrene		43	J	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	78		50 - 120
2-Fluorophenol	75		53 - 120
Nitrobenzene-d5	77		50 - 120
Phenol-d5	80		52 - 120
Terphenyl-d14	90		55 - 120
2,4,6-Tribromophenol	85		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK2**

Lab Sample ID: 280-13664-2
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 03/16/2011 1356
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1877.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Date Analyzed:	03/21/2011 1925			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
2213-23-2	Heptane, 2,4-dimethyl-	2.80	160	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.92	160	N J
	Unknown	2.99	3400	N J

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK3**

Lab Sample ID: 280-13664-3
Client Matrix: Solid
% Moisture: 17.9

Date Sampled: 03/16/2011 1405
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1878.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Date Analyzed:	03/21/2011 1944			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		12	U	12	400
Acenaphthylene		20	U	20	400
Anthracene		20	U	20	400
Benzo[a]anthracene		24	U	24	400
Benzo[a]pyrene		24	U	24	400
Benzo[b]fluoranthene		31	U	31	400
Benzo[ghi]perylene		19	U	19	400
Benzo[k]fluoranthene		48	U	48	400
Bis(2-chloroethoxy)methane		28	U	28	400
Bis(2-chloroethyl)ether		20	U	20	400
bis (2-chloroisopropyl) ether		28	U	28	400
Bis(2-ethylhexyl) phthalate		55	U	55	400
4-Bromophenyl phenyl ether		23	U	23	400
Butyl benzyl phthalate		52	U	52	400
Carbazole		43	U	43	400
4-Chloroaniline		98	U	98	400
4-Chloro-3-methylphenol		79	U	79	400
2-Chloronaphthalene		12	U	12	400
2-Chlorophenol		25	U	25	400
4-Chlorophenyl phenyl ether		25	U	25	400
Chrysene		32	U	32	400
Dibenz(a,h)anthracene		23	U	23	400
Dibenzofuran		24	U	24	400
1,2-Dichlorobenzene		26	U	26	400
1,3-Dichlorobenzene		14	U	14	400
1,4-Dichlorobenzene		16	U	16	400
3,3'-Dichlorobenzidine		110	U	110	790
2,4-Dichlorophenol		12	U	12	400
Diethyl phthalate		31	U	31	400
2,4-Dimethylphenol		79	U	79	400
Dimethyl phthalate		28	U	28	400
Di-n-butyl phthalate		35	U	35	400
4,6-Dinitro-2-methylphenol		400	U	400	790
2,4-Dinitrophenol		400	U	400	990
2,4-Dinitrotoluene		79	U	79	400
2,6-Dinitrotoluene		34	U	34	400
Di-n-octyl phthalate		17	U	17	400
Fluoranthene		43	U	43	400
Fluorene		22	U	22	400
Hexachlorobenzene		35	U	35	400
Hexachlorobutadiene		12	U	12	400
Hexachlorocyclopentadiene		60	U	60	400
Hexachloroethane		26	U	26	400
Indeno[1,2,3-cd]pyrene		26	U	26	400
Isophorone		20	U	20	400
2-Methylnaphthalene		23	U	23	400

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK3**

Lab Sample ID: 280-13664-3
Client Matrix: Solid

% Moisture: 17.9

Date Sampled: 03/16/2011 1405
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1878.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Date Analyzed:	03/21/2011 1944			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		16	U	16	400
3 & 4 Methylphenol		40	U	40	400
Naphthalene		37	U	37	400
2-Nitroaniline		60	U	60	400
3-Nitroaniline		88	U	88	400
4-Nitroaniline		87	U	87	400
Nitrobenzene		26	U	26	400
2-Nitrophenol		12	U	12	400
4-Nitrophenol		120	U	120	790
N-Nitrosodi-n-propylamine		37	U	37	400
N-Nitrosodiphenylamine		25	U	25	400
Pentachlorophenol		400	U	400	790
Phenanthrene		20	U	20	400
Phenol		25	J	22	400
Pyrene		16	J	15	400
1,2,4-Trichlorobenzene		34	U	34	400
2,4,5-Trichlorophenol		12	U	12	400
2,4,6-Trichlorophenol		12	U	12	400

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	79		50 - 120
2-Fluorophenol	80		53 - 120
Nitrobenzene-d5	77		50 - 120
Phenol-d5	83		52 - 120
Terphenyl-d14	89		55 - 120
2,4,6-Tribromophenol	85		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK3**

Lab Sample ID: 280-13664-3
Client Matrix: Solid
% Moisture: 17.9

Date Sampled: 03/16/2011 1405
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1878.D
Dilution:	1.0			Initial Weight/Volume:	30.4 g
Date Analyzed:	03/21/2011 1944			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

Tentatively Identified Compounds **Number TIC's Found:** **4**

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.55	700	N J
	Unknown	2.63	170	N J
2213-23-2	Heptane, 2,4-dimethyl-	2.80	190	N J
	Unknown	2.99	4200	N J

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK4**

Lab Sample ID: 280-13664-4
Client Matrix: Solid

% Moisture: 4.4

Date Sampled: 03/16/2011 1352
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1879.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Date Analyzed:	03/21/2011 2003			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	350
Acenaphthylene		18	U	18	350
Anthracene		18	U	18	350
Benzo[a]anthracene		21	U	21	350
Benzo[a]pyrene		21	U	21	350
Benzo[b]fluoranthene		27	U	27	350
Benzo[ghi]perylene		17	U	17	350
Benzo[k]fluoranthene		42	U	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		48	U	48	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		45	U	45	350
Carbazole		38	U	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		28	U	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	860
2,4-Dinitrotoluene		69	U	69	350
2,6-Dinitrotoluene		29	U	29	350
Di-n-octyl phthalate		15	U	15	350
Fluoranthene		38	U	38	350
Fluorene		19	U	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		23	U	23	350
Isophorone		18	U	18	350
2-Methylnaphthalene		20	U	20	350

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK4**

Lab Sample ID: 280-13664-4
Client Matrix: Solid

% Moisture: 4.4

Date Sampled: 03/16/2011 1352
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1879.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Date Analyzed:	03/21/2011 2003			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			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		32	U	32	350
2-Nitroaniline		52	U	52	350
3-Nitroaniline		76	U	76	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		32	U	32	350
N-Nitrosodiphenylamine		22	U	22	350
Pentachlorophenol		350	U	350	690
Phenanthrene		18	U	18	350
Phenol		19	U	19	350
Pyrene		13	U	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	78		50 - 120
2-Fluorophenol	78		53 - 120
Nitrobenzene-d5	78		50 - 120
Phenol-d5	78		52 - 120
Terphenyl-d14	92		55 - 120
2,4,6-Tribromophenol	85		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK4**

Lab Sample ID: 280-13664-4
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 03/16/2011 1352
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1879.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Date Analyzed:	03/21/2011 2003			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
2216-30-0	Heptane, 2,5-dimethyl-	2.92	140	N J
	Unknown	2.99	3700	N J

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK5**

Lab Sample ID: 280-13664-5
Client Matrix: Solid % Moisture: 5.2

Date Sampled: 03/16/2011 1345
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1880.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Date Analyzed:	03/21/2011 2022			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	350
Acenaphthylene		18	U	18	350
Anthracene		18	U	18	350
Benzo[a]anthracene		21	U	21	350
Benzo[a]pyrene		21	U	21	350
Benzo[b]fluoranthene		28	U	28	350
Benzo[ghi]perylene		17	U	17	350
Benzo[k]fluoranthene		42	U	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		48	U	48	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		45	U	45	350
Carbazole		38	U	38	350
4-Chloroaniline		86	U	86	350
4-Chloro-3-methylphenol		69	U	69	350
2-Chloronaphthalene		11	U	11	350
2-Chlorophenol		22	U	22	350
4-Chlorophenyl phenyl ether		22	U	22	350
Chrysene		28	U	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		95	U	95	690
2,4-Dichlorophenol		11	U	11	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		38	U	38	350
Fluorene		19	U	19	350
Hexachlorobenzene		30	U	30	350
Hexachlorobutadiene		11	U	11	350
Hexachlorocyclopentadiene		53	U	53	350
Hexachloroethane		22	U	22	350
Indeno[1,2,3-cd]pyrene		23	U	23	350
Isophorone		18	U	18	350
2-Methylnaphthalene		20	U	20	350

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK5**

Lab Sample ID: 280-13664-5
Client Matrix: Solid

% Moisture: 5.2

Date Sampled: 03/16/2011 1345
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1880.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Date Analyzed:	03/21/2011 2022			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			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		53	U	53	350
3-Nitroaniline		77	U	77	350
4-Nitroaniline		76	U	76	350
Nitrobenzene		23	U	23	350
2-Nitrophenol		11	U	11	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		18	U	18	350
Phenol		19	U	19	350
Pyrene		13	U	13	350
1,2,4-Trichlorobenzene		29	U	29	350
2,4,5-Trichlorophenol		11	U	11	350
2,4,6-Trichlorophenol		11	U	11	350

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	79		50 - 120
2-Fluorophenol	81		53 - 120
Nitrobenzene-d5	79		50 - 120
Phenol-d5	82		52 - 120
Terphenyl-d14	94		55 - 120
2,4,6-Tribromophenol	86		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK5**

Lab Sample ID: 280-13664-5
Client Matrix: Solid

% Moisture: 5.2

Date Sampled: 03/16/2011 1345
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683	Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349	Lab File ID:	G6_1880.D
Dilution:	1.0		Initial Weight/Volume:	30.1 g
Date Analyzed:	03/21/2011 2022		Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853		Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.99	3200	N J

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK6**

Lab Sample ID: 280-13664-6
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 03/16/2011 1340
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1881.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Date Analyzed:	03/21/2011 2041			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		20	U	20	340
Benzo[a]pyrene		20	U	20	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		23	U	23	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		23	U	23	340
Bis(2-ethylhexyl) phthalate		47	U	47	340
4-Bromophenyl phenyl ether		19	U	19	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		83	U	83	340
4-Chloro-3-methylphenol		67	U	67	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		21	U	21	340
4-Chlorophenyl phenyl ether		21	U	21	340
Chrysene		27	U	27	340
Dibenz(a,h)anthracene		19	U	19	340
Dibenzofuran		20	U	20	340
1,2-Dichlorobenzene		22	U	22	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		91	U	91	670
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		26	U	26	340
2,4-Dimethylphenol		67	U	67	340
Dimethyl phthalate		23	U	23	340
Di-n-butyl phthalate		29	U	29	340
4,6-Dinitro-2-methylphenol		340	U	340	670
2,4-Dinitrophenol		340	U	340	840
2,4-Dinitrotoluene		67	U	67	340
2,6-Dinitrotoluene		28	U	28	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		18	U	18	340
Hexachlorobenzene		29	U	29	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		22	U	22	340
Isophorone		17	U	17	340
2-Methylnaphthalene		19	U	19	340

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK6**

Lab Sample ID: 280-13664-6
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 03/16/2011 1340
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1881.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Date Analyzed:	03/21/2011 2041			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			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		31	U	31	340
2-Nitroaniline		51	U	51	340
3-Nitroaniline		74	U	74	340
4-Nitroaniline		74	U	74	340
Nitrobenzene		22	U	22	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		99	U	99	670
N-Nitrosodi-n-propylamine		31	U	31	340
N-Nitrosodiphenylamine		21	U	21	340
Pentachlorophenol		340	U	340	670
Phenanthrene		17	U	17	340
Phenol		18	U	18	340
Pyrene		12	U	12	340
1,2,4-Trichlorobenzene		28	U	28	340
2,4,5-Trichlorophenol		10	U	10	340
2,4,6-Trichlorophenol		10	U	10	340

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	82		50 - 120
2-Fluorophenol	85		53 - 120
Nitrobenzene-d5	82		50 - 120
Phenol-d5	85		52 - 120
Terphenyl-d14	96		55 - 120
2,4,6-Tribromophenol	87		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK6**

Lab Sample ID: 280-13664-6
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 03/16/2011 1340
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1881.D
Dilution:	1.0			Initial Weight/Volume:	30.7 g
Date Analyzed:	03/21/2011 2041			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.99	3500	N J

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK7**

Lab Sample ID: 280-13664-7
Client Matrix: Solid % Moisture: 8.2

Date Sampled: 03/16/2011 1310
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1882.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Date Analyzed:	03/21/2011 2100			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	350
Acenaphthylene		18	U	18	350
Anthracene		18	U	18	350
Benzo[a]anthracene		30	J	21	350
Benzo[a]pyrene		36	J	21	350
Benzo[b]fluoranthene		51	J K	28	350
Benzo[ghi]perylene		17	U	17	350
Benzo[k]fluoranthene		42	U K	42	350
Bis(2-chloroethoxy)methane		24	U	24	350
Bis(2-chloroethyl)ether		18	U	18	350
bis (2-chloroisopropyl) ether		24	U	24	350
Bis(2-ethylhexyl) phthalate		49	U	49	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		46	U	46	350
Carbazole		38	U	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		35	J	29	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		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		24	U	24	350
Di-n-butyl phthalate		31	U	31	350
4,6-Dinitro-2-methylphenol		350	U	350	700
2,4-Dinitrophenol		350	U	350	880
2,4-Dinitrotoluene		70	U	70	350
2,6-Dinitrotoluene		30	U	30	350
Di-n-octyl phthalate		15	U	15	350
Fluoranthene		57	J	38	350
Fluorene		19	U	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		23	U	23	350
Isophorone		18	U	18	350
2-Methylnaphthalene		20	U	20	350

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK7**

Lab Sample ID: 280-13664-7
Client Matrix: Solid
% Moisture: 8.2

Date Sampled: 03/16/2011 1310
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1882.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Date Analyzed:	03/21/2011 2100			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			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		53	U	53	350
3-Nitroaniline		77	U	77	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		39	J	18	350
Phenol		19	U	19	350
Pyrene		68	J	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	79		50 - 120
2-Fluorophenol	79		53 - 120
Nitrobenzene-d5	78		50 - 120
Phenol-d5	81		52 - 120
Terphenyl-d14	90		55 - 120
2,4,6-Tribromophenol	88		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK7**

Lab Sample ID: 280-13664-7
Client Matrix: Solid

% Moisture: 8.2

Date Sampled: 03/16/2011 1310
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1882.D
Dilution:	1.0			Initial Weight/Volume:	30.8 g
Date Analyzed:	03/21/2011 2100			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
2213-23-2	Heptane, 2,4-dimethyl-	2.80	150	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.92	140	N J
	Unknown	2.99	3500	N J

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK8**

Lab Sample ID: 280-13664-8
Client Matrix: Solid

% Moisture: 5.7

Date Sampled: 03/16/2011 1305
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1883.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Date Analyzed:	03/21/2011 2119			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	350
Acenaphthylene		18	U	18	350
Anthracene		18	U	18	350
Benzo[a]anthracene		21	U	21	350
Benzo[a]pyrene		21	U	21	350
Benzo[b]fluoranthene		28	U	28	350
Benzo[ghi]perylene		17	U	17	350
Benzo[k]fluoranthene		42	U	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		48	U	48	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		45	U	45	350
Carbazole		38	U	38	350
4-Chloroaniline		86	U	86	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		28	U	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		95	U	95	700
2,4-Dichlorophenol		11	U	11	350
Diethyl phthalate		27	U	27	350
2,4-Dimethylphenol		70	U	70	350
Dimethyl phthalate		24	U	24	350
Di-n-butyl phthalate		31	U	31	350
4,6-Dinitro-2-methylphenol		350	U	350	700
2,4-Dinitrophenol		350	U	350	870
2,4-Dinitrotoluene		70	U	70	350
2,6-Dinitrotoluene		30	U	30	350
Di-n-octyl phthalate		15	U	15	350
Fluoranthene		38	U	38	350
Fluorene		19	U	19	350
Hexachlorobenzene		31	U	31	350
Hexachlorobutadiene		11	U	11	350
Hexachlorocyclopentadiene		53	U	53	350
Hexachloroethane		22	U	22	350
Indeno[1,2,3-cd]pyrene		23	U	23	350
Isophorone		18	U	18	350
2-Methylnaphthalene		20	U	20	350

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK8**

Lab Sample ID: 280-13664-8
Client Matrix: Solid
% Moisture: 5.7

Date Sampled: 03/16/2011 1305
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1883.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Date Analyzed:	03/21/2011 2119			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			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		53	U	53	350
3-Nitroaniline		77	U	77	350
4-Nitroaniline		76	U	76	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		18	U	18	350
Phenol		19	U	19	350
Pyrene		13	U	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	76		50 - 120
2-Fluorophenol	79		53 - 120
Nitrobenzene-d5	78		50 - 120
Phenol-d5	80		52 - 120
Terphenyl-d14	92		55 - 120
2,4,6-Tribromophenol	83		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK8**

Lab Sample ID: 280-13664-8
Client Matrix: Solid
% Moisture: 5.7

Date Sampled: 03/16/2011 1305
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1883.D
Dilution:	1.0			Initial Weight/Volume:	30.2 g
Date Analyzed:	03/21/2011 2119			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
2216-30-0	Heptane, 2,5-dimethyl-	2.92	150	N J
	Unknown	2.99	3700	N J

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK9**

Lab Sample ID: 280-13664-9
Client Matrix: Solid
% Moisture: 3.0

Date Sampled: 03/16/2011 1343
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1884.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Date Analyzed:	03/21/2011 2137			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	320
Acenaphthylene		17	U	17	320
Anthracene		17	U	17	320
Benzo[a]anthracene		20	U	20	320
Benzo[a]pyrene		20	U	20	320
Benzo[b]fluoranthene		26	U	26	320
Benzo[ghi]perylene		16	U	16	320
Benzo[k]fluoranthene		39	U	39	320
Bis(2-chloroethoxy)methane		23	U	23	320
Bis(2-chloroethyl)ether		16	U	16	320
bis (2-chloroisopropyl) ether		23	U	23	320
Bis(2-ethylhexyl) phthalate		45	U	45	320
4-Bromophenyl phenyl ether		19	U	19	320
Butyl benzyl phthalate		42	U	42	320
Carbazole		35	U	35	320
4-Chloroaniline		80	U	80	320
4-Chloro-3-methylphenol		65	U	65	320
2-Chloronaphthalene		9.8	U	9.8	320
2-Chlorophenol		21	U	21	320
4-Chlorophenyl phenyl ether		21	U	21	320
Chrysene		26	U	26	320
Dibenz(a,h)anthracene		19	U	19	320
Dibenzofuran		20	U	20	320
1,2-Dichlorobenzene		22	U	22	320
1,3-Dichlorobenzene		12	U	12	320
1,4-Dichlorobenzene		13	U	13	320
3,3'-Dichlorobenzidine		88	U	88	650
2,4-Dichlorophenol		9.8	U	9.8	320
Diethyl phthalate		25	U	25	320
2,4-Dimethylphenol		65	U	65	320
Dimethyl phthalate		23	U	23	320
Di-n-butyl phthalate		28	U	28	320
4,6-Dinitro-2-methylphenol		320	U	320	650
2,4-Dinitrophenol		330	U	330	810
2,4-Dinitrotoluene		65	U	65	320
2,6-Dinitrotoluene		27	U	27	320
Di-n-octyl phthalate		14	U	14	320
Fluoranthene		35	U	35	320
Fluorene		18	U	18	320
Hexachlorobenzene		28	U	28	320
Hexachlorobutadiene		9.8	U	9.8	320
Hexachlorocyclopentadiene		49	U	49	320
Hexachloroethane		21	U	21	320
Indeno[1,2,3-cd]pyrene		22	U	22	320
Isophorone		17	U	17	320
2-Methylnaphthalene		19	U	19	320

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK9**

Lab Sample ID: 280-13664-9
Client Matrix: Solid
% Moisture: 3.0

Date Sampled: 03/16/2011 1343
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1884.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Date Analyzed:	03/21/2011 2137			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		13	U	13	320
3 & 4 Methylphenol		32	U	32	320
Naphthalene		30	U	30	320
2-Nitroaniline		49	U	49	320
3-Nitroaniline		71	U	71	320
4-Nitroaniline		71	U	71	320
Nitrobenzene		22	U	22	320
2-Nitrophenol		9.8	U	9.8	320
4-Nitrophenol		95	U	95	650
N-Nitrosodi-n-propylamine		30	U	30	320
N-Nitrosodiphenylamine		21	U	21	320
Pentachlorophenol		320	U	320	650
Phenanthrene		17	U	17	320
Phenol		18	U	18	320
Pyrene		12	U	12	320
1,2,4-Trichlorobenzene		27	U	27	320
2,4,5-Trichlorophenol		9.8	U	9.8	320
2,4,6-Trichlorophenol		9.8	U	9.8	320

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	81		50 - 120
2-Fluorophenol	80		53 - 120
Nitrobenzene-d5	82		50 - 120
Phenol-d5	83		52 - 120
Terphenyl-d14	89		55 - 120
2,4,6-Tribromophenol	82		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK9**

Lab Sample ID: 280-13664-9
Client Matrix: Solid

% Moisture: 3.0

Date Sampled: 03/16/2011 1343
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1884.D
Dilution:	1.0			Initial Weight/Volume:	31.6 g
Date Analyzed:	03/21/2011 2137			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.80	150	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.92	150	N J
	Unknown	2.99	3600	N J

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL0**

Lab Sample ID: 280-13664-10
Client Matrix: Solid % Moisture: 4.7

Date Sampled: 03/16/2011 1330
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1885.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Date Analyzed:	03/21/2011 2156			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	340
Acenaphthylene		17	U	17	340
Anthracene		17	U	17	340
Benzo[a]anthracene		20	U	20	340
Benzo[a]pyrene		20	U	20	340
Benzo[b]fluoranthene		27	U	27	340
Benzo[ghi]perylene		16	U	16	340
Benzo[k]fluoranthene		41	U	41	340
Bis(2-chloroethoxy)methane		23	U	23	340
Bis(2-chloroethyl)ether		17	U	17	340
bis (2-chloroisopropyl) ether		23	U	23	340
Bis(2-ethylhexyl) phthalate		47	U	47	340
4-Bromophenyl phenyl ether		19	U	19	340
Butyl benzyl phthalate		44	U	44	340
Carbazole		37	U	37	340
4-Chloroaniline		83	U	83	340
4-Chloro-3-methylphenol		67	U	67	340
2-Chloronaphthalene		10	U	10	340
2-Chlorophenol		21	U	21	340
4-Chlorophenyl phenyl ether		21	U	21	340
Chrysene		28	U	28	340
Dibenz(a,h)anthracene		19	U	19	340
Dibenzofuran		20	U	20	340
1,2-Dichlorobenzene		22	U	22	340
1,3-Dichlorobenzene		12	U	12	340
1,4-Dichlorobenzene		14	U	14	340
3,3'-Dichlorobenzidine		92	U	92	670
2,4-Dichlorophenol		10	U	10	340
Diethyl phthalate		27	U	27	340
2,4-Dimethylphenol		67	U	67	340
Dimethyl phthalate		23	U	23	340
Di-n-butyl phthalate		30	U	30	340
4,6-Dinitro-2-methylphenol		340	U	340	670
2,4-Dinitrophenol		340	U	340	840
2,4-Dinitrotoluene		67	U	67	340
2,6-Dinitrotoluene		29	U	29	340
Di-n-octyl phthalate		15	U	15	340
Fluoranthene		37	U	37	340
Fluorene		18	U	18	340
Hexachlorobenzene		30	U	30	340
Hexachlorobutadiene		10	U	10	340
Hexachlorocyclopentadiene		51	U	51	340
Hexachloroethane		22	U	22	340
Indeno[1,2,3-cd]pyrene		22	U	22	340
Isophorone		17	U	17	340
2-Methylnaphthalene		19	U	19	340

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL0**

Lab Sample ID: 280-13664-10
Client Matrix: Solid % Moisture: 4.7

Date Sampled: 03/16/2011 1330
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1885.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Date Analyzed:	03/21/2011 2156			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			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		51	U	51	340
3-Nitroaniline		74	U	74	340
4-Nitroaniline		74	U	74	340
Nitrobenzene		22	U	22	340
2-Nitrophenol		10	U	10	340
4-Nitrophenol		99	U	99	670
N-Nitrosodi-n-propylamine		32	U	32	340
N-Nitrosodiphenylamine		21	U	21	340
Pentachlorophenol		340	U	340	670
Phenanthrene		17	U	17	340
Phenol		18	U	18	340
Pyrene		12	U	12	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	77		50 - 120
2-Fluorophenol	78		53 - 120
Nitrobenzene-d5	78		50 - 120
Phenol-d5	85		52 - 120
Terphenyl-d14	90		55 - 120
2,4,6-Tribromophenol	85		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL0**

Lab Sample ID: 280-13664-10
Client Matrix: Solid % Moisture: 4.7

Date Sampled: 03/16/2011 1330
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1885.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Date Analyzed:	03/21/2011 2156			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.80	140	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.92	150	N J
	Unknown	2.99	3700	N J

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL1**

Lab Sample ID: 280-13664-11
Client Matrix: Solid % Moisture: 9.0

Date Sampled: 03/16/2011 1300
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1886.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Date Analyzed:	03/21/2011 2215			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	360
Acenaphthylene		19	U	19	360
Anthracene		19	U	19	360
Benzo[a]anthracene		22	U	22	360
Benzo[a]pyrene		22	U	22	360
Benzo[b]fluoranthene		29	U	29	360
Benzo[ghi]perylene		18	U	18	360
Benzo[k]fluoranthene		44	U	44	360
Bis(2-chloroethoxy)methane		25	U	25	360
Bis(2-chloroethyl)ether		18	U	18	360
bis (2-chloroisopropyl) ether		25	U	25	360
Bis(2-ethylhexyl) phthalate		51	U	51	360
4-Bromophenyl phenyl ether		21	U	21	360
Butyl benzyl phthalate		47	U	47	360
Carbazole		40	U	40	360
4-Chloroaniline		90	U	90	360
4-Chloro-3-methylphenol		73	U	73	360
2-Chloronaphthalene		11	U	11	360
2-Chlorophenol		23	U	23	360
4-Chlorophenyl phenyl ether		23	U	23	360
Chrysene		30	U	30	360
Dibenz(a,h)anthracene		21	U	21	360
Dibenzofuran		22	U	22	360
1,2-Dichlorobenzene		24	U	24	360
1,3-Dichlorobenzene		13	U	13	360
1,4-Dichlorobenzene		15	U	15	360
3,3'-Dichlorobenzidine		99	U	99	730
2,4-Dichlorophenol		11	U	11	360
Diethyl phthalate		29	U	29	360
2,4-Dimethylphenol		73	U	73	360
Dimethyl phthalate		25	U	25	360
Di-n-butyl phthalate		32	U	32	360
4,6-Dinitro-2-methylphenol		360	U	360	730
2,4-Dinitrophenol		370	U	370	910
2,4-Dinitrotoluene		73	U	73	360
2,6-Dinitrotoluene		31	U	31	360
Di-n-octyl phthalate		16	U	16	360
Fluoranthene		40	U	40	360
Fluorene		20	U	20	360
Hexachlorobenzene		32	U	32	360
Hexachlorobutadiene		11	U	11	360
Hexachlorocyclopentadiene		55	U	55	360
Hexachloroethane		23	U	23	360
Indeno[1,2,3-cd]pyrene		24	U	24	360
Isophorone		19	U	19	360
2-Methylnaphthalene		21	U	21	360

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL1**

Lab Sample ID: 280-13664-11
Client Matrix: Solid
% Moisture: 9.0

Date Sampled: 03/16/2011 1300
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1886.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Date Analyzed:	03/21/2011 2215			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		14	U	14	360
3 & 4 Methylphenol		36	U	36	360
Naphthalene		34	U	34	360
2-Nitroaniline		55	U	55	360
3-Nitroaniline		80	U	80	360
4-Nitroaniline		80	U	80	360
Nitrobenzene		24	U	24	360
2-Nitrophenol		11	U	11	360
4-Nitrophenol		110	U	110	730
N-Nitrosodi-n-propylamine		34	U	34	360
N-Nitrosodiphenylamine		23	U	23	360
Pentachlorophenol		360	U	360	730
Phenanthrene		19	U	19	360
Phenol		20	U	20	360
Pyrene		13	U	13	360
1,2,4-Trichlorobenzene		31	U	31	360
2,4,5-Trichlorophenol		11	U	11	360
2,4,6-Trichlorophenol		11	U	11	360

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	78		50 - 120
2-Fluorophenol	78		53 - 120
Nitrobenzene-d5	78		50 - 120
Phenol-d5	80		52 - 120
Terphenyl-d14	93		55 - 120
2,4,6-Tribromophenol	87		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL1**

Lab Sample ID: 280-13664-11
Client Matrix: Solid % Moisture: 9.0

Date Sampled: 03/16/2011 1300
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1886.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Date Analyzed:	03/21/2011 2215			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
2213-23-2	Heptane, 2,4-dimethyl-	2.80	170	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.92	170	N J
	Unknown	2.99	4000	N J

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL2**

Lab Sample ID: 280-13664-12
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 03/16/2011 1350
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1887.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Date Analyzed:	03/21/2011 2234			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			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		48	U	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		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		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: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL2**

Lab Sample ID: 280-13664-12
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 03/16/2011 1350
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1887.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Date Analyzed:	03/21/2011 2234			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			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	77		50 - 120
2-Fluorophenol	80		53 - 120
Nitrobenzene-d5	81		50 - 120
Phenol-d5	81		52 - 120
Terphenyl-d14	90		55 - 120
2,4,6-Tribromophenol	91		51 - 120

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL2**

Lab Sample ID: 280-13664-12
Client Matrix: Solid

% Moisture: 6.8

Date Sampled: 03/16/2011 1350
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1887.D
Dilution:	1.0			Initial Weight/Volume:	30.9 g
Date Analyzed:	03/21/2011 2234			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.56	240	N J
	Unknown	2.80	150	N J
	Unknown	3.00	3600	N J

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL3**

Lab Sample ID: 280-13664-13
Client Matrix: Solid % Moisture: 6.9

Date Sampled: 03/16/2011 1305
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1871.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Date Analyzed:	03/21/2011 1732			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	350
Acenaphthylene		18	U	18	350
Anthracene		18	U	18	350
Benzo[a]anthracene		21	U	21	350
Benzo[a]pyrene		21	U	21	350
Benzo[b]fluoranthene		28	U	28	350
Benzo[ghi]perylene		17	U	17	350
Benzo[k]fluoranthene		43	U	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		49	U	49	350
4-Bromophenyl phenyl ether		20	U	20	350
Butyl benzyl phthalate		46	U	46	350
Carbazole		39	U	39	350
4-Chloroaniline		88	U	88	350
4-Chloro-3-methylphenol		71	U	71	350
2-Chloronaphthalene		11	U	11	350
2-Chlorophenol		22	U	22	350
4-Chlorophenyl phenyl ether		22	U	22	350
Chrysene		29	U	29	350
Dibenz(a,h)anthracene		20	U	20	350
Dibenzofuran		21	U	21	350
1,2-Dichlorobenzene		24	U	24	350
1,3-Dichlorobenzene		13	U	13	350
1,4-Dichlorobenzene		15	U	15	350
3,3'-Dichlorobenzidine		96	U	96	710
2,4-Dichlorophenol		11	U	11	350
Diethyl phthalate		28	U	28	350
2,4-Dimethylphenol		71	U	71	350
Dimethyl phthalate		25	U	25	350
Di-n-butyl phthalate		31	U	31	350
4,6-Dinitro-2-methylphenol		350	U	350	710
2,4-Dinitrophenol		360	U	360	880
2,4-Dinitrotoluene		71	U	71	350
2,6-Dinitrotoluene		30	U	30	350
Di-n-octyl phthalate		15	U	15	350
Fluoranthene		39	U	39	350
Fluorene		19	U	19	350
Hexachlorobenzene		31	U	31	350
Hexachlorobutadiene		11	U	11	350
Hexachlorocyclopentadiene		54	U	54	350
Hexachloroethane		23	U	23	350
Indeno[1,2,3-cd]pyrene		24	U	24	350
Isophorone		18	U	18	350
2-Methylnaphthalene		20	U	20	350

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL3**

Lab Sample ID: 280-13664-13
Client Matrix: Solid
% Moisture: 6.9

Date Sampled: 03/16/2011 1305
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1871.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Date Analyzed:	03/21/2011 1732			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			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		54	U	54	350
3-Nitroaniline		78	U	78	350
4-Nitroaniline		78	U	78	350
Nitrobenzene		24	U	24	350
2-Nitrophenol		11	U	11	350
4-Nitrophenol		100	U	100	710
N-Nitrosodi-n-propylamine		33	U	33	350
N-Nitrosodiphenylamine		22	U	22	350
Pentachlorophenol		350	U	350	710
Phenanthrene		18	U	18	350
Phenol		19	U	19	350
Pyrene		13	U	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	82		53 - 120
Nitrobenzene-d5	80		50 - 120
Phenol-d5	83		52 - 120
Terphenyl-d14	89		55 - 120
2,4,6-Tribromophenol	84		51 - 120

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL3**

Lab Sample ID: 280-13664-13
Client Matrix: Solid

% Moisture: 6.9

Date Sampled: 03/16/2011 1305
Date Received: 03/18/2011 0930

8270C Semivolatile Organic Compounds (GC/MS)

Method:	8270C	Analysis Batch: 280-58683		Instrument ID:	MSS_G6
Preparation:	3550C	Prep Batch: 280-58349		Lab File ID:	G6_1871.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Date Analyzed:	03/21/2011 1732			Final Weight/Volume:	1000 uL
Date Prepared:	03/18/2011 1853			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	2.99	3900	N J

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK1**

Lab Sample ID: 280-13664-1
Client Matrix: Solid
% Moisture: 7.0

Date Sampled: 03/16/2011 1400
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58521		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-58342		Initial Weight/Volume:	31.3 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/21/2011 1604			Injection Volume:	20 uL
Date Prepared:	03/18/2011 1818			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.1	U	3.1	21
Benzo[a]anthracene		18		3.3	15
Benzo[a]pyrene		19		6.6	15
Benzo[b]fluoranthene		20		4.3	15
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		8.6	J	4.1	15
Chrysene		17	J	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		13	U	13	41
Fluorene		5.4	U	5.4	31
Indeno[1,2,3-cd]pyrene		15	J	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	J	12	41
Pyrene		31	J	12	41

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK2**

Lab Sample ID: 280-13664-2
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 03/16/2011 1356
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58521		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-58342		Initial Weight/Volume:	30.2 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/21/2011 1634			Injection Volume:	20 uL
Date Prepared:	03/18/2011 1818			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.6	U	9.6	110
Anthracene		3.3	U	3.3	21
Benzo[a]anthracene		30		3.4	16
Benzo[a]pyrene		25		6.8	16
Benzo[b]fluoranthene		29		4.5	16
Benzo[g,h,i]perylene		7.7	U	7.7	32
Benzo[k]fluoranthene		16		4.2	16
Chrysene		27	J	5.2	43
Dibenzo(a,h)anthracene		12	U	12	32
Fluoranthene		45		14	43
Fluorene		5.6	U	5.6	32
Indeno[1,2,3-cd]pyrene		20	J	13	32
Naphthalene		13	U	13	110
Phenanthrene		15	J	13	43
Pyrene		51		13	43

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK3**

Lab Sample ID: 280-13664-3
Client Matrix: Solid
% Moisture: 17.9

Date Sampled: 03/16/2011 1405
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58521		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-58342		Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/21/2011 1705			Injection Volume:	20 uL
Date Prepared:	03/18/2011 1818			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		12	U	12	120
Acenaphthylene		11	U	11	120
Anthracene		3.6	U	3.6	24
Benzo[a]anthracene		9.3	J	3.8	18
Benzo[a]pyrene		14	J	7.6	18
Benzo[b]fluoranthene		12	J	5.0	18
Benzo[g,h,i]perylene		8.5	U	8.5	36
Benzo[k]fluoranthene		5.6	J	4.7	18
Chrysene		12	J	5.7	47
Dibenzo(a,h)anthracene		13	U	13	36
Fluoranthene		15	U	15	47
Fluorene		6.3	U	6.3	36
Indeno[1,2,3-cd]pyrene		14	U	14	36
Naphthalene		14	U	14	120
Phenanthrene		14	U	14	47
Pyrene		18	J	14	47

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	92		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK4**

Lab Sample ID: 280-13664-4
Client Matrix: Solid
% Moisture: 4.4

Date Sampled: 03/16/2011 1352
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58521		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-58342		Initial Weight/Volume:	30.8 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/21/2011 1735			Injection Volume:	20 uL
Date Prepared:	03/18/2011 1818			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.2	U	9.2	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		23	X	3.3	15
Benzo[a]pyrene		16		6.5	15
Benzo[b]fluoranthene		13	J X	4.3	15
Benzo[g,h,i]perylene		7.3	U	7.3	31
Benzo[k]fluoranthene		12	J	4.0	15
Chrysene		22	J	4.9	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		40	J	13	41
Fluorene		5.4	U	5.4	31
Indeno[1,2,3-cd]pyrene		13	J	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		41		12	41

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK5**

Lab Sample ID: 280-13664-5
Client Matrix: Solid
% Moisture: 5.2

Date Sampled: 03/16/2011 1345
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58521		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-58342		Initial Weight/Volume:	30.6 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/21/2011 1806			Injection Volume:	20 uL
Date Prepared:	03/18/2011 1818			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	99		72 - 115

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK6**

Lab Sample ID: 280-13664-6
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 03/16/2011 1340
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58521		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-58342		Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/21/2011 1836			Injection Volume:	20 uL
Date Prepared:	03/18/2011 1818			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.3	U	9.3	100
Anthracene		3.1	U	3.1	21
Benzo[a]anthracene		3.3	U	3.3	15
Benzo[a]pyrene		6.6	U	6.6	15
Benzo[b]fluoranthene		4.3	U	4.3	15
Benzo[g,h,i]perylene		7.4	U	7.4	31
Benzo[k]fluoranthene		4.1	U	4.1	15
Chrysene		5.0	U	5.0	41
Dibenzo(a,h)anthracene		11	U	11	31
Fluoranthene		13	U	13	41
Fluorene		5.4	U	5.4	31
Indeno[1,2,3-cd]pyrene		12	U	12	31
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	41
Pyrene		12	U	12	41

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK7**

Lab Sample ID: 280-13664-7
Client Matrix: Solid

% Moisture: 8.2

Date Sampled: 03/16/2011 1310
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58521		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-58342		Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/21/2011 1907			Injection Volume:	20 uL
Date Prepared:	03/18/2011 1818			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.7	U	9.7	110
Anthracene		3.3	U	3.3	22
Benzo[a]anthracene		23		3.4	16
Benzo[a]pyrene		23		6.9	16
Benzo[b]fluoranthene		19		4.5	16
Benzo[g,h,i]perylene		7.7	U	7.7	32
Benzo[k]fluoranthene		9.0	J	4.2	16
Chrysene		21	J	5.2	43
Dibenzo(a,h)anthracene		12	U	12	32
Fluoranthene		14	U	14	43
Fluorene		5.7	U	5.7	32
Indeno[1,2,3-cd]pyrene		18	J	13	32
Naphthalene		13	U	13	110
Phenanthrene		24	J	13	43
Pyrene		47	X	13	43

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK8**

Lab Sample ID: 280-13664-8
Client Matrix: Solid

% Moisture: 5.7

Date Sampled: 03/16/2011 1305
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58521		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-58342		Initial Weight/Volume:	30.4 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/21/2011 1937			Injection Volume:	20 uL
Date Prepared:	03/18/2011 1818			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.4	U	9.4	100
Anthracene		3.2	U	3.2	21
Benzo[a]anthracene		3.3	U	3.3	16
Benzo[a]pyrene		6.7	U	6.7	16
Benzo[b]fluoranthene		4.4	U	4.4	16
Benzo[g,h,i]perylene		7.5	U	7.5	31
Benzo[k]fluoranthene		4.1	U	4.1	16
Chrysene		5.1	U	5.1	42
Dibenzo(a,h)anthracene		12	U	12	31
Fluoranthene		14	U	14	42
Fluorene		5.5	U	5.5	31
Indeno[1,2,3-cd]pyrene		13	U	13	31
Naphthalene		13	U	13	100
Phenanthrene		13	U	13	42
Pyrene		13	U	13	42

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK9**

Lab Sample ID: 280-13664-9
Client Matrix: Solid % Moisture: 3.0

Date Sampled: 03/16/2011 1343
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58521		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-58342		Initial Weight/Volume:	31.0 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/22/2011 2003			Injection Volume:	20 uL
Date Prepared:	03/18/2011 1818			Result Type:	PRIMARY

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

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL0**

Lab Sample ID: 280-13664-10
Client Matrix: Solid

% Moisture: 4.7

Date Sampled: 03/16/2011 1330
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method: 8310
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/22/2011 2034
Date Prepared: 03/18/2011 1818

Analysis Batch: 280-58521
Prep Batch: 280-58342

Instrument ID: CHHPLC_G
Initial Weight/Volume: 31.3 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.1	U	9.1	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		6.4	U	6.4	15
Benzo[b]fluoranthene		4.2	U	4.2	15
Benzo[g,h,i]perylene		7.2	U	7.2	30
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		4.9	U	4.9	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	40
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	40
Pyrene		12	U	12	40

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL1**

Lab Sample ID: 280-13664-11
Client Matrix: Solid

% Moisture: 9.0

Date Sampled: 03/16/2011 1300
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method:	8310	Analysis Batch: 280-58521		Instrument ID:	CHHPLC_G
Preparation:	3550C	Prep Batch: 280-58342		Initial Weight/Volume:	30.3 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Date Analyzed:	03/22/2011 2104			Injection Volume:	20 uL
Date Prepared:	03/18/2011 1818			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.8	U	9.8	110
Anthracene		3.3	U	3.3	22
Benzo[a]anthracene		3.5	U	3.5	16
Benzo[a]pyrene		7.0	U	7.0	16
Benzo[b]fluoranthene		4.6	U	4.6	16
Benzo[g,h,i]perylene		7.8	U	7.8	33
Benzo[k]fluoranthene		4.3	U	4.3	16
Chrysene		5.3	U	5.3	44
Dibenzo(a,h)anthracene		12	U	12	33
Fluoranthene		14	U	14	44
Fluorene		5.7	U	5.7	33
Indeno[1,2,3-cd]pyrene		13	U	13	33
Naphthalene		13	U	13	110
Phenanthrene		13	U	13	44
Pyrene		13	U	13	44

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL2**

Lab Sample ID: 280-13664-12
Client Matrix: Solid

% Moisture: 6.8

Date Sampled: 03/16/2011 1350
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method: 8310
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/22/2011 2135
Date Prepared: 03/18/2011 1818

Analysis Batch: 280-58521
Prep Batch: 280-58342

Instrument ID: CHHPLC_G
Initial Weight/Volume: 31.9 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		10	U	10	100
Acenaphthylene		9.1	U	9.1	100
Anthracene		3.1	U	3.1	20
Benzo[a]anthracene		3.2	U	3.2	15
Benzo[a]pyrene		6.5	U	6.5	15
Benzo[b]fluoranthene		4.2	U	4.2	15
Benzo[g,h,i]perylene		7.3	U	7.3	30
Benzo[k]fluoranthene		4.0	U	4.0	15
Chrysene		4.9	U	4.9	40
Dibenzo(a,h)anthracene		11	U	11	30
Fluoranthene		13	U	13	40
Fluorene		5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene		12	U	12	30
Naphthalene		12	U	12	100
Phenanthrene		12	U	12	40
Pyrene		12	U	12	40

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL3**

Lab Sample ID: 280-13664-13
Client Matrix: Solid

% Moisture: 6.9

Date Sampled: 03/16/2011 1305
Date Received: 03/18/2011 0930

8310 PAHs (HPLC)

Method: 8310
Preparation: 3550C
Dilution: 1.0
Date Analyzed: 03/22/2011 2205
Date Prepared: 03/18/2011 1818

Analysis Batch: 280-58521
Prep Batch: 280-58342

Instrument ID: CHHPLC_G
Initial Weight/Volume: 30.1 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Result Type: PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		11	U	11	110
Acenaphthylene		9.6	U	9.6	110
Anthracene		3.3	U	3.3	21
Benzo[a]anthracene		3.4	U	3.4	16
Benzo[a]pyrene		6.9	U	6.9	16
Benzo[b]fluoranthene		4.5	U	4.5	16
Benzo[g,h,i]perylene		7.7	U	7.7	32
Benzo[k]fluoranthene		4.2	U	4.2	16
Chrysene		5.2	U	5.2	43
Dibenzo(a,h)anthracene		12	U	12	32
Fluoranthene		14	U	14	43
Fluorene		5.7	U	5.7	32
Indeno[1,2,3-cd]pyrene		13	U	13	32
Naphthalene		13	U	13	110
Phenanthrene		13	U	13	43
Pyrene		13	U	13	43

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK1**

Lab Sample ID: 280-13664-1
Client Matrix: Solid

% Moisture: 7.0

Date Sampled: 03/16/2011 1400
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1814
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58670
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26b032111.asc
Initial Weight/Volume: 1.18 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6490		1.4	4.6
Antimony		0.35	U	0.35	0.55
Barium		47.2		0.069	0.46
Beryllium		0.030	U	0.030	0.18
Boron		0.89	U	0.89	1.8
Cadmium		0.037	U	0.037	0.18
Calcium		4820		12.9	45.6
Chromium		11.2		0.053	0.18
Cobalt		6.4	X	0.091	0.91
Copper		13.1		0.20	0.91
Iron		13900	X	3.5	4.6
Manganese		217		0.091	0.91
Nickel		12.5	X	0.11	3.6
Potassium		850		37.4	273
Selenium		1.3		0.78	0.91
Silicon		182	N	5.2	9.1
Silver		0.15	U	0.15	0.18
Vanadium		37.2		0.086	1.8
Zinc		31.9	X	0.36	0.91

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/22/2011 1536
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58881
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26a032211.asc
Initial Weight/Volume: 1.18 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		4.4		0.60	0.91
Lead		11.7		0.25	0.46
Magnesium		4220		3.4	18.2
Molybdenum		0.37	B	0.24	1.8

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/23/2011 1515
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-59078
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26a032311.asc
Initial Weight/Volume: 1.18 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Sodium		287		53.8	109

7471A Mercury (CVAA)

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK1**

Lab Sample ID: 280-13664-1
Client Matrix: Solid

% Moisture: 7.0

Date Sampled: 03/16/2011 1400
Date Received: 03/18/2011 0930

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-58997		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-58366		Lab File ID:	110322AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.64 g
Date Analyzed:	03/22/2011 1856			Final Weight/Volume:	50 mL
Date Prepared:	03/22/2011 1255				

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK2**

Lab Sample ID: 280-13664-2
Client Matrix: Solid

% Moisture: 6.8

Date Sampled: 03/16/2011 1356
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1823
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58670
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26b032111.asc
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5760		1.6	5.1
Antimony		0.39	U	0.39	0.61
Barium		57.6		0.078	0.51
Beryllium		0.034	U	0.034	0.20
Boron		1.0	U	1.0	2.0
Cadmium		0.042	U	0.042	0.20
Calcium		4620		14.4	51.1
Chromium		9.1		0.059	0.20
Cobalt		5.5	X	0.10	1.0
Copper		13.5		0.22	1.0
Iron		14700	X	3.9	5.1
Manganese		230		0.10	1.0
Nickel		9.4	X	0.13	4.1
Potassium		829		41.9	307
Selenium		1.6		0.88	1.0
Silicon		202		5.8	10.2
Silver		0.16	U	0.16	0.20
Vanadium		43.1		0.096	2.0
Zinc		34.1	X	0.41	1.0

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/22/2011 1545
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58881
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26a032211.asc
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		4.4		0.67	1.0
Lead		12.1		0.28	0.51
Magnesium		3630		3.8	20.4
Molybdenum		0.49	B	0.27	2.0

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/23/2011 1524
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-59078
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26a032311.asc
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Sodium		223		60.3	123

7471A Mercury (CVAA)

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK2**

Lab Sample ID: 280-13664-2
Client Matrix: Solid
% Moisture: 6.8

Date Sampled: 03/16/2011 1356
Date Received: 03/18/2011 0930

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-58997		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-58366		Lab File ID:	110322AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Date Analyzed:	03/22/2011 1858			Final Weight/Volume:	50 mL
Date Prepared:	03/22/2011 1255				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0054	U	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK3**

Lab Sample ID: 280-13664-3
Client Matrix: Solid

% Moisture: 17.9

Date Sampled: 03/16/2011 1405
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1826
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58670
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26b032111.asc
Initial Weight/Volume: 1.11 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8880		1.7	5.5
Antimony		0.42	U	0.42	0.66
Barium		72.5		0.083	0.55
Beryllium		0.15	B	0.036	0.22
Boron		1.1	U	1.1	2.2
Cadmium		0.045	U	0.045	0.22
Calcium		6540		15.5	54.8
Chromium		16.3		0.064	0.22
Cobalt		6.1	X	0.11	1.1
Copper		13.9		0.24	1.1
Iron		15500	X	4.2	5.5
Manganese		271		0.11	1.1
Nickel		15.4	X	0.13	4.4
Potassium		1320		45.0	329
Selenium		0.94	U	0.94	1.1
Silicon		305		6.2	11.0
Silver		0.18	U	0.18	0.22
Vanadium		34.6		0.10	2.2
Zinc		40.4	X	0.44	1.1

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/22/2011 1548
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58881
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26a032211.asc
Initial Weight/Volume: 1.11 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		4.5		0.72	1.1
Lead		10.5		0.30	0.55
Magnesium		5360		4.1	21.9
Molybdenum		0.29	U	0.29	2.2

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/23/2011 1526
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-59078
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26a032311.asc
Initial Weight/Volume: 1.11 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Sodium		240		64.7	132

7471A Mercury (CVAA)

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK3**

Lab Sample ID: 280-13664-3
Client Matrix: Solid
% Moisture: 17.9

Date Sampled: 03/16/2011 1405
Date Received: 03/18/2011 0930

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-58997		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-58366		Lab File ID:	110322AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Date Analyzed:	03/22/2011 1901			Final Weight/Volume:	50 mL
Date Prepared:	03/22/2011 1255				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0082	B	0.0059	0.018

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK4**

Lab Sample ID: 280-13664-4
Client Matrix: Solid

% Moisture: 4.4

Date Sampled: 03/16/2011 1352
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1828
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58670
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26b032111.asc
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5760		1.5	5.0
Antimony		0.38	U	0.38	0.60
Barium		60.4		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		4220		14.1	49.8
Chromium		11.5		0.058	0.20
Cobalt		5.8	X	0.10	1.0
Copper		14.6		0.22	1.0
Iron		15300	X	3.8	5.0
Manganese		223		0.10	1.0
Nickel		9.6	X	0.12	4.0
Potassium		809		40.9	299
Selenium		0.86	U	0.86	1.0
Silicon		224		5.6	10
Silver		0.16	U	0.16	0.20
Vanadium		45.0		0.094	2.0
Zinc		33.6	X	0.40	1.0

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/22/2011 1550
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58881
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26a032211.asc
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		2.0		0.66	1.0
Lead		7.4		0.27	0.50
Magnesium		3690		3.7	19.9
Molybdenum		0.26	U	0.26	2.0

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/23/2011 1529
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-59078
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26a032311.asc
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Sodium		245		58.8	120

7471A Mercury (CVAA)

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK4**

Lab Sample ID: 280-13664-4
Client Matrix: Solid

% Moisture: 4.4

Date Sampled: 03/16/2011 1352
Date Received: 03/18/2011 0930

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-58997		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-58366		Lab File ID:	110322AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.67 g
Date Analyzed:	03/22/2011 1903			Final Weight/Volume:	50 mL
Date Prepared:	03/22/2011 1255				

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK5**

Lab Sample ID: 280-13664-5
Client Matrix: Solid

% Moisture: 5.2

Date Sampled: 03/16/2011 1345
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1830
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58670
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26b032111.asc
Initial Weight/Volume: 1.11 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5290		1.5	4.8
Antimony		0.36	U	0.36	0.57
Barium		35.5		0.072	0.48
Beryllium		0.031	U	0.031	0.19
Boron		0.93	U	0.93	1.9
Cadmium		0.039	U	0.039	0.19
Calcium		4840		13.4	47.5
Chromium		7.6		0.055	0.19
Cobalt		5.1	X	0.095	0.95
Copper		12.8		0.21	0.95
Iron		12800	X	3.6	4.8
Manganese		209		0.095	0.95
Nickel		10.1	X	0.12	3.8
Potassium		711		39.0	285
Selenium		0.82	U	0.82	0.95
Silicon		174		5.4	9.5
Silver		0.15	U	0.15	0.19
Vanadium		33.6		0.089	1.9
Zinc		27.4	X	0.38	0.95

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/22/2011 1552
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58881
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26a032211.asc
Initial Weight/Volume: 1.11 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		9.8		0.63	0.95
Lead		31.3		0.26	0.48
Magnesium		3480		3.5	19.0
Molybdenum		0.25	U	0.25	1.9

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/23/2011 1531
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-59078
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26a032311.asc
Initial Weight/Volume: 1.11 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Sodium		215		56.1	114

7471A Mercury (CVAA)

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK5**

Lab Sample ID: 280-13664-5
Client Matrix: Solid

% Moisture: 5.2

Date Sampled: 03/16/2011 1345
Date Received: 03/18/2011 0930

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-58997		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-58366		Lab File ID:	110322AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Date Analyzed:	03/22/2011 1905			Final Weight/Volume:	50 mL
Date Prepared:	03/22/2011 1255				

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK6**

Lab Sample ID: 280-13664-6
Client Matrix: Solid
% Moisture: 3.8

Date Sampled: 03/16/2011 1340
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-58670		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-58305		Lab File ID:	26b032111.asc
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Date Analyzed:	03/21/2011 1842			Final Weight/Volume:	100 mL
Date Prepared:	03/21/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6310		1.4	4.5
Antimony		0.34	U	0.34	0.54
Barium		50.3		0.068	0.45
Beryllium		0.030	U	0.030	0.18
Boron		0.88	U	0.88	1.8
Cadmium		0.052	B	0.037	0.18
Calcium		4910		12.6	44.8
Chromium		7.2		0.052	0.18
Cobalt		5.5	X	0.090	0.90
Copper		15.4		0.19	0.90
Iron		13900	X	3.4	4.5
Manganese		217		0.090	0.90
Nickel		9.2	X	0.11	3.6
Potassium		573		36.7	269
Selenium		0.77	U	0.77	0.90
Silicon		174		5.1	9.0
Silver		0.14	U	0.14	0.18
Vanadium		39.4		0.084	1.8
Zinc		31.6	X	0.36	0.90

Method:	6010B	Analysis Batch: 280-58881		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-58305		Lab File ID:	26a032211.asc
Dilution:	1.0			Initial Weight/Volume:	1.16 g
Date Analyzed:	03/22/2011 1604			Final Weight/Volume:	100 mL
Date Prepared:	03/21/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		1.8		0.59	0.90
Lead		8.4		0.24	0.45
Magnesium		3340		3.3	17.9
Molybdenum		0.23	U	0.23	1.8
Sodium		388		52.9	108

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-58997		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-58366		Lab File ID:	110322AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Date Analyzed:	03/22/2011 1907			Final Weight/Volume:	50 mL
Date Prepared:	03/22/2011 1255				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0057	U	0.0057	0.017

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK7**

Lab Sample ID: 280-13664-7
Client Matrix: Solid
% Moisture: 8.2

Date Sampled: 03/16/2011 1310
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-58670		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-58305		Lab File ID:	26b032111.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Date Analyzed:	03/21/2011 1844			Final Weight/Volume:	100 mL
Date Prepared:	03/21/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6340		1.5	4.9
Antimony		0.37	U	0.37	0.58
Barium		44.4		0.074	0.49
Beryllium		0.046	B	0.032	0.19
Boron		0.95	U	0.95	1.9
Cadmium		0.040	U	0.040	0.19
Calcium		4180		13.7	48.6
Chromium		9.0		0.056	0.19
Cobalt		4.8	X	0.097	0.97
Copper		12.4		0.21	0.97
Iron		13200	X	3.7	4.9
Manganese		230		0.097	0.97
Nickel		10.1	X	0.12	3.9
Potassium		843		39.9	292
Selenium		0.84	U	0.84	0.97
Silicon		268		5.5	9.7
Silver		0.16	U	0.16	0.19
Vanadium		32.6		0.091	1.9
Zinc		41.6	X	0.39	0.97

Method:	6010B	Analysis Batch: 280-58881		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-58305		Lab File ID:	26a032211.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Date Analyzed:	03/22/2011 1606			Final Weight/Volume:	100 mL
Date Prepared:	03/21/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		7.8		0.64	0.97
Lead		24.5		0.26	0.49
Magnesium		3850		3.6	19.5
Molybdenum		0.25	U	0.25	1.9
Sodium		211		57.4	117

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-58997		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-58366		Lab File ID:	110322AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.69 g
Date Analyzed:	03/22/2011 1910			Final Weight/Volume:	50 mL
Date Prepared:	03/22/2011 1255				

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK8**

Lab Sample ID: 280-13664-8
Client Matrix: Solid

% Moisture: 5.7

Date Sampled: 03/16/2011 1305
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1847
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58670
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26b032111.asc
Initial Weight/Volume: 1.09 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6320		1.5	4.9
Antimony		0.37	U	0.37	0.58
Barium		42.3		0.074	0.49
Beryllium		0.032	U	0.032	0.19
Boron		0.95	U	0.95	1.9
Cadmium		0.040	U	0.040	0.19
Calcium		4240		13.7	48.7
Chromium		9.7		0.056	0.19
Cobalt		4.9	X	0.097	0.97
Copper		12.4		0.21	0.97
Iron		13100	X	3.7	4.9
Manganese		219		0.097	0.97
Nickel		9.5	X	0.12	3.9
Potassium		808		39.9	292
Selenium		0.84	U	0.84	0.97
Silicon		224		5.5	9.7
Silver		0.16	U	0.16	0.19
Vanadium		35.1		0.091	1.9
Zinc		30.8	X	0.39	0.97

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/22/2011 1609
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58881
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26a032211.asc
Initial Weight/Volume: 1.09 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		5.7		0.64	0.97
Lead		19.4		0.26	0.49
Magnesium		3750		3.6	19.5
Molybdenum		0.25	U	0.25	1.9
Sodium		221		57.4	117

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1912
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58366

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.64 g
Final Weight/Volume: 50 mL

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKK9**

Lab Sample ID: 280-13664-9
Client Matrix: Solid
% Moisture: 3.0

Date Sampled: 03/16/2011 1343
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-58670		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-58305		Lab File ID:	26b032111.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Date Analyzed:	03/21/2011 1849			Final Weight/Volume:	100 mL
Date Prepared:	03/21/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5210		1.5	4.7
Antimony		0.36	U	0.36	0.57
Barium		77.1		0.072	0.47
Beryllium		0.031	U	0.031	0.19
Boron		0.93	U	0.93	1.9
Cadmium		0.039	U	0.039	0.19
Calcium		3500		13.3	47.3
Chromium		6.5		0.055	0.19
Cobalt		5.5	X	0.095	0.95
Copper		12.7		0.21	0.95
Iron		15300	X	3.6	4.7
Manganese		219		0.095	0.95
Nickel		6.8	X	0.12	3.8
Potassium		542		38.8	284
Selenium		0.81	U	0.81	0.95
Silicon		112		5.4	9.5
Silver		0.15	U	0.15	0.19
Vanadium		47.9		0.089	1.9
Zinc		30.9	X	0.38	0.95

Method:	6010B	Analysis Batch: 280-58881		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-58305		Lab File ID:	26a032211.asc
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Date Analyzed:	03/22/2011 1611			Final Weight/Volume:	100 mL
Date Prepared:	03/21/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		1.1		0.62	0.95
Lead		3.5		0.26	0.47
Magnesium		3050		3.5	18.9
Molybdenum		0.25	U	0.25	1.9
Sodium		285		55.8	114

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-58997		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-58366		Lab File ID:	110322AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.62 g
Date Analyzed:	03/22/2011 1914			Final Weight/Volume:	50 mL
Date Prepared:	03/22/2011 1255				

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL0**

Lab Sample ID: 280-13664-10
Client Matrix: Solid
% Moisture: 4.7

Date Sampled: 03/16/2011 1330
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1851
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58670
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26b032111.asc
Initial Weight/Volume: 1.06 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		5910		1.5	5.0
Antimony		0.38	U	0.38	0.59
Barium		57.4		0.075	0.50
Beryllium		0.033	U	0.033	0.20
Boron		0.97	U	0.97	2.0
Cadmium		0.041	U	0.041	0.20
Calcium		3860		14.0	49.5
Chromium		8.7		0.057	0.20
Cobalt		5.7	X	0.099	0.99
Copper		13.6		0.21	0.99
Iron		14800	X	3.8	5.0
Manganese		230		0.099	0.99
Nickel		9.2	X	0.12	4.0
Potassium		577		40.6	297
Selenium		0.85	U	0.85	0.99
Silicon		169		5.6	9.9
Silver		0.16	U	0.16	0.20
Vanadium		35.4		0.093	2.0
Zinc		31.3	X	0.39	0.99

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/22/2011 1613
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58881
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26a032211.asc
Initial Weight/Volume: 1.06 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		2.4		0.65	0.99
Lead		6.0		0.27	0.50
Magnesium		3820		3.7	19.8
Molybdenum		0.26	U	0.26	2.0
Sodium		281		58.4	119

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1917
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58366

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.64 g
Final Weight/Volume: 50 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0054	U	0.0054	0.017

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL1**

Lab Sample ID: 280-13664-11
Client Matrix: Solid
% Moisture: 9.0

Date Sampled: 03/16/2011 1300
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method:	6010B	Analysis Batch: 280-58670		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-58305		Lab File ID:	26b032111.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Date Analyzed:	03/21/2011 1854			Final Weight/Volume:	100 mL
Date Prepared:	03/21/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		8980		1.6	5.1
Antimony		0.39	U	0.39	0.61
Barium		69.0		0.077	0.51
Beryllium		0.074	B	0.034	0.20
Boron		1.0	U	1.0	2.0
Cadmium		0.042	U	0.042	0.20
Calcium		5890		14.4	50.9
Chromium		11.6		0.059	0.20
Cobalt		6.4	X	0.10	1.0
Copper		15.9		0.22	1.0
Iron		16000	X	3.9	5.1
Manganese		260		0.10	1.0
Nickel		13.5	X	0.13	4.1
Potassium		1300		41.7	305
Selenium		0.88	U	0.88	1.0
Silicon		200		5.8	10.2
Silver		0.16	U	0.16	0.20
Vanadium		40.9		0.096	2.0
Zinc		44.7	X	0.41	1.0

Method:	6010B	Analysis Batch: 280-58881		Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-58305		Lab File ID:	26a032211.asc
Dilution:	1.0			Initial Weight/Volume:	1.08 g
Date Analyzed:	03/22/2011 1616			Final Weight/Volume:	100 mL
Date Prepared:	03/21/2011 0800				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		2.8		0.67	1.0
Lead		8.4		0.27	0.51
Magnesium		4590		3.8	20.4
Molybdenum		0.26	U	0.26	2.0
Sodium		300		60.0	122

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 280-58997		Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-58366		Lab File ID:	110322AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.61 g
Date Analyzed:	03/22/2011 1924			Final Weight/Volume:	50 mL
Date Prepared:	03/22/2011 1255				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0060	U	0.0060	0.018

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL2**

Lab Sample ID: 280-13664-12
Client Matrix: Solid

% Moisture: 6.8

Date Sampled: 03/16/2011 1350
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1856
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58670
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26b032111.asc
Initial Weight/Volume: 1.04 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6950		1.6	5.2
Antimony		0.39	U	0.39	0.62
Barium		90.3		0.078	0.52
Beryllium		0.034	U	0.034	0.21
Boron		1.0	U	1.0	2.1
Cadmium		0.064	B	0.042	0.21
Calcium		3920		14.5	51.6
Chromium		8.3		0.060	0.21
Cobalt		6.7	X	0.10	1.0
Copper		15.8		0.22	1.0
Iron		18800	X	3.9	5.2
Manganese		284		0.10	1.0
Nickel		11.3	X	0.13	4.1
Potassium		782		42.3	309
Selenium		0.89	U	0.89	1.0
Silicon		209		5.8	10.3
Silver		0.17	U	0.17	0.21
Vanadium		54.7		0.097	2.1
Zinc		46.2	X	0.41	1.0

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/22/2011 1618
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58881
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26a032211.asc
Initial Weight/Volume: 1.04 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		3.2		0.68	1.0
Lead		9.8		0.28	0.52
Magnesium		3900		3.8	20.6
Molybdenum		0.27	U	0.27	2.1
Sodium		270		60.9	124

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1931
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58366

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.69 g
Final Weight/Volume: 50 mL

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Client Sample ID: **J1FKL3**

Lab Sample ID: 280-13664-13
Client Matrix: Solid

% Moisture: 6.9

Date Sampled: 03/16/2011 1305
Date Received: 03/18/2011 0930

6010B Metals (ICP)

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/21/2011 1859
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58670
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26b032111.asc
Initial Weight/Volume: 1.10 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6330		1.5	4.9
Antimony		0.37	U	0.37	0.59
Barium		41.3		0.074	0.49
Beryllium		0.032	B	0.032	0.20
Boron		0.96	U	0.96	2.0
Cadmium		0.040	U	0.040	0.20
Calcium		4630		13.8	48.8
Chromium		9.2		0.057	0.20
Cobalt		5.1	X	0.098	0.98
Copper		11.7		0.21	0.98
Iron		13100	X	3.7	4.9
Manganese		251		0.098	0.98
Nickel		9.9	X	0.12	3.9
Potassium		780		40.0	293
Selenium		0.84	U	0.84	0.98
Silicon		208		5.5	9.8
Silver		0.16	U	0.16	0.20
Vanadium		35.2		0.092	2.0
Zinc		33.7	X	0.39	0.98

Method: 6010B
Preparation: 3050B
Dilution: 1.0
Date Analyzed: 03/22/2011 1620
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58881
Prep Batch: 280-58305

Instrument ID: MT_026
Lab File ID: 26a032211.asc
Initial Weight/Volume: 1.10 g
Final Weight/Volume: 100 mL

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		6.1		0.64	0.98
Lead		22.7		0.26	0.49
Magnesium		4020		3.6	19.5
Molybdenum		0.25	U	0.25	2.0
Sodium		217		57.6	117

7471A Mercury (CVAA)

Method: 7471A
Preparation: 7471A
Dilution: 1.0
Date Analyzed: 03/22/2011 1933
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58366

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.64 g
Final Weight/Volume: 50 mL

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

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

General Chemistry

Client Sample ID: **J1FKK1**

Lab Sample ID: 280-13664-1
Client Matrix: Solid

Date Sampled: 03/16/2011 1400
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	7.0		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-58326 Date Analyzed: 03/18/2011 1500 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

General Chemistry

Client Sample ID: **J1FKK2**

Lab Sample ID: 280-13664-2
Client Matrix: Solid

Date Sampled: 03/16/2011 1356
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.8		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-58326 Date Analyzed: 03/18/2011 1500 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

General Chemistry

Client Sample ID: **J1FKK3**

Lab Sample ID: 280-13664-3
Client Matrix: Solid

Date Sampled: 03/16/2011 1405
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	17.9		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-58326 Date Analyzed: 03/18/2011 1500 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

General Chemistry

Client Sample ID: **J1FKK4**

Lab Sample ID: 280-13664-4
Client Matrix: Solid

Date Sampled: 03/16/2011 1352
Date Received: 03/18/2011 0930

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

Analysis Batch: 280-58326 Date Analyzed: 03/18/2011 1500 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

General Chemistry

Client Sample ID: **J1FKK5**

Lab Sample ID: 280-13664-5
Client Matrix: Solid

Date Sampled: 03/16/2011 1345
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-58326 Date Analyzed: 03/18/2011 1500 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

General Chemistry

Client Sample ID: **J1FKK6**

Lab Sample ID: 280-13664-6
Client Matrix: Solid

Date Sampled: 03/16/2011 1340
Date Received: 03/18/2011 0930

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

Analysis Batch: 280-58326 Date Analyzed: 03/18/2011 1500 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

General Chemistry

Client Sample ID: **J1FKK7**

Lab Sample ID: 280-13664-7
Client Matrix: Solid

Date Sampled: 03/16/2011 1310
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	8.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-58326 Date Analyzed: 03/18/2011 1500 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

General Chemistry

Client Sample ID: **J1FKK8**

Lab Sample ID: 280-13664-8
Client Matrix: Solid

Date Sampled: 03/16/2011 1305
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	5.7		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-58326 Date Analyzed: 03/18/2011 1500 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

General Chemistry

Client Sample ID: **J1FKK9**

Lab Sample ID: 280-13664-9
Client Matrix: Solid

Date Sampled: 03/16/2011 1343
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.0		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-58326 Date Analyzed: 03/18/2011 1500 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

General Chemistry

Client Sample ID: **J1FKL0**

Lab Sample ID: 280-13664-10
Client Matrix: Solid

Date Sampled: 03/16/2011 1330
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.7		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-58326 Date Analyzed: 03/18/2011 1500 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FKL1**

Lab Sample ID: 280-13664-11
Client Matrix: Solid

Date Sampled: 03/16/2011 1300
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	9.0		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-58326 Date Analyzed: 03/18/2011 1500 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

General Chemistry

Client Sample ID: **J1FKL2**

Lab Sample ID: 280-13664-12
Client Matrix: Solid

Date Sampled: 03/16/2011 1350
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.8		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-58326 Date Analyzed: 03/18/2011 1500 DryWt Corrected: N

General Chemistry

Client Sample ID: **J1FKL3**

Lab Sample ID: 280-13664-13
Client Matrix: Solid

Date Sampled: 03/16/2011 1305
Date Received: 03/18/2011 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.9		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-58326 Date Analyzed: 03/18/2011 1500 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 280-58349					
LCS 280-58349/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-58349/1-A	Method Blank	T	Solid	3550C	
280-13664-1	J1FKK1	T	Solid	3550C	
280-13664-2	J1FKK2	T	Solid	3550C	
280-13664-3	J1FKK3	T	Solid	3550C	
280-13664-4	J1FKK4	T	Solid	3550C	
280-13664-5	J1FKK5	T	Solid	3550C	
280-13664-6	J1FKK6	T	Solid	3550C	
280-13664-7	J1FKK7	T	Solid	3550C	
280-13664-8	J1FKK8	T	Solid	3550C	
280-13664-9	J1FKK9	T	Solid	3550C	
280-13664-10	J1FKL0	T	Solid	3550C	
280-13664-11	J1FKL1	T	Solid	3550C	
280-13664-12	J1FKL2	T	Solid	3550C	
280-13664-12MS	Matrix Spike	T	Solid	3550C	
280-13664-12MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-13664-13	J1FKL3	T	Solid	3550C	
Analysis Batch:280-58683					
LCS 280-58349/2-A	Lab Control Sample	T	Solid	8270C	280-58349
MB 280-58349/1-A	Method Blank	T	Solid	8270C	280-58349
280-13664-1	J1FKK1	T	Solid	8270C	280-58349
280-13664-2	J1FKK2	T	Solid	8270C	280-58349
280-13664-3	J1FKK3	T	Solid	8270C	280-58349
280-13664-4	J1FKK4	T	Solid	8270C	280-58349
280-13664-5	J1FKK5	T	Solid	8270C	280-58349
280-13664-6	J1FKK6	T	Solid	8270C	280-58349
280-13664-7	J1FKK7	T	Solid	8270C	280-58349
280-13664-8	J1FKK8	T	Solid	8270C	280-58349
280-13664-9	J1FKK9	T	Solid	8270C	280-58349
280-13664-10	J1FKL0	T	Solid	8270C	280-58349
280-13664-11	J1FKL1	T	Solid	8270C	280-58349
280-13664-12	J1FKL2	T	Solid	8270C	280-58349
280-13664-12MS	Matrix Spike	T	Solid	8270C	280-58349
280-13664-12MSD	Matrix Spike Duplicate	T	Solid	8270C	280-58349
280-13664-13	J1FKL3	T	Solid	8270C	280-58349

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-58305					
LCS 280-58305/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-58305/1-A	Method Blank	T	Solid	3050B	
280-13664-1	J1FKK1	T	Solid	3050B	
280-13664-1DU	Duplicate	T	Solid	3050B	
280-13664-1MS	Matrix Spike	T	Solid	3050B	
280-13664-2	J1FKK2	T	Solid	3050B	
280-13664-3	J1FKK3	T	Solid	3050B	
280-13664-4	J1FKK4	T	Solid	3050B	
280-13664-5	J1FKK5	T	Solid	3050B	
280-13664-6	J1FKK6	T	Solid	3050B	
280-13664-7	J1FKK7	T	Solid	3050B	
280-13664-8	J1FKK8	T	Solid	3050B	
280-13664-9	J1FKK9	T	Solid	3050B	
280-13664-10	J1FKL0	T	Solid	3050B	
280-13664-11	J1FKL1	T	Solid	3050B	
280-13664-12	J1FKL2	T	Solid	3050B	
280-13664-13	J1FKL3	T	Solid	3050B	
Prep Batch: 280-58366					
LCS 280-58366/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-58366/1-A	Method Blank	T	Solid	7471A	
280-13664-1	J1FKK1	T	Solid	7471A	
280-13664-2	J1FKK2	T	Solid	7471A	
280-13664-3	J1FKK3	T	Solid	7471A	
280-13664-4	J1FKK4	T	Solid	7471A	
280-13664-5	J1FKK5	T	Solid	7471A	
280-13664-6	J1FKK6	T	Solid	7471A	
280-13664-7	J1FKK7	T	Solid	7471A	
280-13664-8	J1FKK8	T	Solid	7471A	
280-13664-9	J1FKK9	T	Solid	7471A	
280-13664-10	J1FKL0	T	Solid	7471A	
280-13664-11	J1FKL1	T	Solid	7471A	
280-13664-11DU	Duplicate	T	Solid	7471A	
280-13664-11MS	Matrix Spike	T	Solid	7471A	
280-13664-12	J1FKL2	T	Solid	7471A	
280-13664-13	J1FKL3	T	Solid	7471A	

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-58670					
LCS 280-58305/2-A	Lab Control Sample	T	Solid	6010B	280-58305
MB 280-58305/1-A	Method Blank	T	Solid	6010B	280-58305
280-13664-1	J1FKK1	T	Solid	6010B	280-58305
280-13664-1DU	Duplicate	T	Solid	6010B	280-58305
280-13664-1MS	Matrix Spike	T	Solid	6010B	280-58305
280-13664-2	J1FKK2	T	Solid	6010B	280-58305
280-13664-3	J1FKK3	T	Solid	6010B	280-58305
280-13664-4	J1FKK4	T	Solid	6010B	280-58305
280-13664-5	J1FKK5	T	Solid	6010B	280-58305
280-13664-6	J1FKK6	T	Solid	6010B	280-58305
280-13664-7	J1FKK7	T	Solid	6010B	280-58305
280-13664-8	J1FKK8	T	Solid	6010B	280-58305
280-13664-9	J1FKK9	T	Solid	6010B	280-58305
280-13664-10	J1FKL0	T	Solid	6010B	280-58305
280-13664-11	J1FKL1	T	Solid	6010B	280-58305
280-13664-12	J1FKL2	T	Solid	6010B	280-58305
280-13664-13	J1FKL3	T	Solid	6010B	280-58305
Analysis Batch:280-58881					
LCS 280-58305/2-A	Lab Control Sample	T	Solid	6010B	280-58305
MB 280-58305/1-A	Method Blank	T	Solid	6010B	280-58305
280-13664-1	J1FKK1	T	Solid	6010B	280-58305
280-13664-1DU	Duplicate	T	Solid	6010B	280-58305
280-13664-1MS	Matrix Spike	T	Solid	6010B	280-58305
280-13664-2	J1FKK2	T	Solid	6010B	280-58305
280-13664-3	J1FKK3	T	Solid	6010B	280-58305
280-13664-4	J1FKK4	T	Solid	6010B	280-58305
280-13664-5	J1FKK5	T	Solid	6010B	280-58305
280-13664-6	J1FKK6	T	Solid	6010B	280-58305
280-13664-7	J1FKK7	T	Solid	6010B	280-58305
280-13664-8	J1FKK8	T	Solid	6010B	280-58305
280-13664-9	J1FKK9	T	Solid	6010B	280-58305
280-13664-10	J1FKL0	T	Solid	6010B	280-58305
280-13664-11	J1FKL1	T	Solid	6010B	280-58305
280-13664-12	J1FKL2	T	Solid	6010B	280-58305
280-13664-13	J1FKL3	T	Solid	6010B	280-58305

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-58997					
LCS 280-58366/2-A	Lab Control Sample	T	Solid	7471A	280-58366
MB 280-58366/1-A	Method Blank	T	Solid	7471A	280-58366
280-13664-1	J1FKK1	T	Solid	7471A	280-58366
280-13664-2	J1FKK2	T	Solid	7471A	280-58366
280-13664-3	J1FKK3	T	Solid	7471A	280-58366
280-13664-4	J1FKK4	T	Solid	7471A	280-58366
280-13664-5	J1FKK5	T	Solid	7471A	280-58366
280-13664-6	J1FKK6	T	Solid	7471A	280-58366
280-13664-7	J1FKK7	T	Solid	7471A	280-58366
280-13664-8	J1FKK8	T	Solid	7471A	280-58366
280-13664-9	J1FKK9	T	Solid	7471A	280-58366
280-13664-10	J1FKL0	T	Solid	7471A	280-58366
280-13664-11	J1FKL1	T	Solid	7471A	280-58366
280-13664-11DU	Duplicate	T	Solid	7471A	280-58366
280-13664-11MS	Matrix Spike	T	Solid	7471A	280-58366
280-13664-12	J1FKL2	T	Solid	7471A	280-58366
280-13664-13	J1FKL3	T	Solid	7471A	280-58366
Analysis Batch:280-59078					
LCS 280-58305/2-A	Lab Control Sample	T	Solid	6010B	280-58305
MB 280-58305/1-A	Method Blank	T	Solid	6010B	280-58305
280-13664-1	J1FKK1	T	Solid	6010B	280-58305
280-13664-1DU	Duplicate	T	Solid	6010B	280-58305
280-13664-1MS	Matrix Spike	T	Solid	6010B	280-58305
280-13664-2	J1FKK2	T	Solid	6010B	280-58305
280-13664-3	J1FKK3	T	Solid	6010B	280-58305
280-13664-4	J1FKK4	T	Solid	6010B	280-58305
280-13664-5	J1FKK5	T	Solid	6010B	280-58305

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-58326					
280-13664-1	J1FKK1	T	Solid	D-2216	
280-13664-1DU	Duplicate	T	Solid	D-2216	
280-13664-2	J1FKK2	T	Solid	D-2216	
280-13664-3	J1FKK3	T	Solid	D-2216	
280-13664-4	J1FKK4	T	Solid	D-2216	
280-13664-5	J1FKK5	T	Solid	D-2216	
280-13664-6	J1FKK6	T	Solid	D-2216	
280-13664-7	J1FKK7	T	Solid	D-2216	
280-13664-8	J1FKK8	T	Solid	D-2216	
280-13664-9	J1FKK9	T	Solid	D-2216	
280-13664-10	J1FKL0	T	Solid	D-2216	
280-13664-11	J1FKL1	T	Solid	D-2216	
280-13664-12	J1FKL2	T	Solid	D-2216	
280-13664-13	J1FKL3	T	Solid	D-2216	

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 280-58342					
LCS 280-58342/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-58342/1-A	Method Blank	T	Solid	3550C	
280-13664-1	J1FKK1	T	Solid	3550C	
280-13664-2	J1FKK2	T	Solid	3550C	
280-13664-3	J1FKK3	T	Solid	3550C	
280-13664-4	J1FKK4	T	Solid	3550C	
280-13664-5	J1FKK5	T	Solid	3550C	
280-13664-6	J1FKK6	T	Solid	3550C	
280-13664-7	J1FKK7	T	Solid	3550C	
280-13664-8	J1FKK8	T	Solid	3550C	
280-13664-9	J1FKK9	T	Solid	3550C	
280-13664-10	J1FKL0	T	Solid	3550C	
280-13664-11	J1FKL1	T	Solid	3550C	
280-13664-12	J1FKL2	T	Solid	3550C	
280-13664-13	J1FKL3	T	Solid	3550C	
280-13664-13MS	Matrix Spike	T	Solid	3550C	
280-13664-13MSD	Matrix Spike Duplicate	T	Solid	3550C	
Analysis Batch:280-58521					
LCS 280-58342/2-A	Lab Control Sample	T	Solid	8310	280-58342
MB 280-58342/1-A	Method Blank	T	Solid	8310	280-58342
280-13664-1	J1FKK1	T	Solid	8310	280-58342
280-13664-2	J1FKK2	T	Solid	8310	280-58342
280-13664-3	J1FKK3	T	Solid	8310	280-58342
280-13664-4	J1FKK4	T	Solid	8310	280-58342
280-13664-5	J1FKK5	T	Solid	8310	280-58342
280-13664-6	J1FKK6	T	Solid	8310	280-58342
280-13664-7	J1FKK7	T	Solid	8310	280-58342
280-13664-8	J1FKK8	T	Solid	8310	280-58342
280-13664-9	J1FKK9	T	Solid	8310	280-58342
280-13664-10	J1FKL0	T	Solid	8310	280-58342
280-13664-11	J1FKL1	T	Solid	8310	280-58342
280-13664-12	J1FKL2	T	Solid	8310	280-58342
280-13664-13	J1FKL3	T	Solid	8310	280-58342
280-13664-13MS	Matrix Spike	T	Solid	8310	280-58342
280-13664-13MSD	Matrix Spike Duplicate	T	Solid	8310	280-58342

Report Basis
T = Total

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Method Blank - Batch: 280-58349

Method: 8270C
Preparation: 3550C

Lab Sample ID: MB 280-58349/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1616
Date Prepared: 03/18/2011 1853

Analysis Batch: 280-58683
Prep Batch: 280-58349
Units: ug/Kg

Instrument ID: MSS_G6
Lab File ID: G6_1867.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 1000 uL
Injection Volume: 0.5 uL

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	17	U	17	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	82	U	82	330
4-Chloro-3-methylphenol	66	U	66	330
2-Chloronaphthalene	10	U	10	330
2-Chlorophenol	21	U	21	330
4-Chlorophenyl phenyl ether	21	U	21	330
Chrysene	27	U	27	330
Dibenz(a,h)anthracene	19	U	19	330
Dibenzofuran	20	U	20	330
1,2-Dichlorobenzene	22	U	22	330
1,3-Dichlorobenzene	12	U	12	330
1,4-Dichlorobenzene	14	U	14	330
3,3'-Dichlorobenzidine	90	U	90	660
2,4-Dichlorophenol	10	U	10	330
Diethyl phthalate	26	U	26	330
2,4-Dimethylphenol	66	U	66	330
Dimethyl phthalate	23	U	23	330
Di-n-butyl phthalate	29	U	29	330
4,6-Dinitro-2-methylphenol	330	U	330	660
2,4-Dinitrophenol	330	U	330	830
2,4-Dinitrotoluene	66	U	66	330
2,6-Dinitrotoluene	28	U	28	330
Di-n-octyl phthalate	14	U	14	330
Fluoranthene	36	U	36	330
Fluorene	18	U	18	330
Hexachlorobenzene	29	U	29	330
Hexachlorobutadiene	10	U	10	330
Hexachlorocyclopentadiene	50	U	50	330
Hexachloroethane	21	U	21	330

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Method Blank - Batch: 280-58349

Method: 8270C
Preparation: 3550C

Lab Sample ID: MB 280-58349/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1616
Date Prepared: 03/18/2011 1853

Analysis Batch: 280-58683
Prep Batch: 280-58349
Units: ug/Kg

Instrument ID: MSS_G6
Lab File ID: G6_1867.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 1000 uL
Injection Volume: 0.5 uL

Analyte	Result	Qual	MDL	RL
Indeno[1,2,3-cd]pyrene	22	U	22	330
Isophorone	17	U	17	330
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	73	U	73	330
Nitrobenzene	22	U	22	330
2-Nitrophenol	10	U	10	330
4-Nitrophenol	97	U	97	660
N-Nitrosodi-n-propylamine	31	U	31	330
N-Nitrosodiphenylamine	21	U	21	330
Pentachlorophenol	330	U	330	660
Phenanthrene	17	U	17	330
Phenol	18	U	18	330
Pyrene	12	U	12	330
1,2,4-Trichlorobenzene	28	U	28	330
2,4,5-Trichlorophenol	10	U	10	330
2,4,6-Trichlorophenol	10	U	10	330

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	81	50 - 120
2-Fluorophenol	81	53 - 120
Nitrobenzene-d5	80	50 - 120
Phenol-d5	82	52 - 120
Terphenyl-d14	89	55 - 120
2,4,6-Tribromophenol	80	51 - 120

Method Blank TICs- Batch: 280-58349

Cas Number	Analyte	RT	Est. Result	Qual
2213-23-2	Heptane, 2,4-dimethyl-	2.80	137	N J
926-82-9	Heptane, 3,5-dimethyl-	2.92	143	N J
	Unknown	2.99	3100	N J

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Lab Control Sample - Batch: 280-58349

Method: 8270C
Preparation: 3550C

Lab Sample ID: LCS 280-58349/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1635
Date Prepared: 03/18/2011 1853

Analysis Batch: 280-58683
Prep Batch: 280-58349
Units: ug/Kg

Instrument ID: MSS_G6
Lab File ID: G6_1868.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 1000 uL
Injection Volume: 0.5 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	2670	2280	86	52 - 120	
Anthracene	2670	2420	91	57 - 120	
Carbazole	2670	2420	91	54 - 120	
4-Chloro-3-methylphenol	2670	2420	91	57 - 120	
2-Chlorophenol	2670	2240	84	53 - 120	
1,4-Dichlorobenzene	2670	2040	77	46 - 120	
2,4-Dinitrotoluene	2670	2580	97	53 - 120	
2-Methylnaphthalene	2670	2170	81	55 - 120	
2-Methylphenol	2670	2290	86	51 - 120	
4-Nitrophenol	2670	2600	98	41 - 120	
N-Nitrosodi-n-propylamine	2670	2200	82	51 - 120	
Pentachlorophenol	2670	2340	88	30 - 120	
Phenol	2670	2280	85	54 - 120	
Pyrene	2670	2510	94	50 - 120	
1,2,4-Trichlorobenzene	2670	2060	77	50 - 120	
2,4,6-Trichlorophenol	2670	2440	92	50 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	85	50 - 120
2-Fluorophenol	80	53 - 120
Nitrobenzene-d5	80	50 - 120
Phenol-d5	83	52 - 120
Terphenyl-d14	95	55 - 120
2,4,6-Tribromophenol	92	51 - 120

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-58349

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-13664-12	Analysis Batch: 280-58683	Instrument ID: MSS_G6
Client Matrix:	Solid	Prep Batch: 280-58349	Lab File ID: G6_1888.D
Dilution:	1.0		Initial Weight/Volume: 30.6 g
Date Analyzed:	03/21/2011 2253		Final Weight/Volume: 1000 uL
Date Prepared:	03/18/2011 1853		Injection Volume: 0.5 uL

MSD Lab Sample ID:	280-13664-12	Analysis Batch: 280-58683	Instrument ID: MSS_G6
Client Matrix:	Solid	Prep Batch: 280-58349	Lab File ID: G6_1889.D
Dilution:	1.0		Initial Weight/Volume: 30.9 g
Date Analyzed:	03/21/2011 2312		Final Weight/Volume: 1000 uL
Date Prepared:	03/18/2011 1853		Injection Volume: 0.5 uL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	83	82	52 - 120	2	30		
Anthracene	88	90	57 - 120	0	30		
Carbazole	89	89	54 - 120	1	30		
4-Chloro-3-methylphenol	90	91	57 - 120	0	30		
2-Chlorophenol	83	88	53 - 120	5	30		
1,4-Dichlorobenzene	74	78	46 - 120	4	30		
2,4-Dinitrotoluene	92	96	53 - 120	3	30		
2-Methylnaphthalene	80	81	55 - 120	1	30		
2-Methylphenol	84	88	51 - 120	3	30		
4-Nitrophenol	91	93	41 - 120	1	30		
N-Nitrosodi-n-propylamine	82	86	51 - 120	4	30		
Pentachlorophenol	70	73	30 - 120	4	30		
Phenol	86	88	54 - 120	2	30		
Pyrene	92	92	50 - 120	1	38		
1,2,4-Trichlorobenzene	75	77	50 - 120	1	30		
2,4,6-Trichlorophenol	89	87	50 - 120	3	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl	81	80	50 - 120
2-Fluorophenol	80	86	53 - 120
Nitrobenzene-d5	80	82	50 - 120
Phenol-d5	85	86	52 - 120
Terphenyl-d14	91	93	55 - 120
2,4,6-Tribromophenol	90	92	51 - 120

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Method Blank - Batch: 280-58342

Method: 8310
Preparation: 3550C

Lab Sample ID: MB 280-58342/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1503
Date Prepared: 03/18/2011 1818

Analysis Batch: 280-58521
Prep Batch: 280-58342
Units: ug/Kg

Instrument ID: CHHPLC_G
Lab File ID: G0321008.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Acenaphthene	10	U	10	100
Acenaphthylene	9.0	U	9.0	100
Anthracene	3.1	U	3.1	20
Benzo[a]anthracene	3.2	U	3.2	15
Benzo[a]pyrene	6.4	U	6.4	15
Benzo[b]fluoranthene	4.2	U	4.2	15
Benzo[g,h,i]perylene	7.2	U	7.2	30
Benzo[k]fluoranthene	3.9	U	3.9	15
Chrysene	4.8	U	4.8	40
Dibenzo(a,h)anthracene	11	U	11	30
Fluoranthene	13	U	13	40
Fluorene	5.3	U	5.3	30
Indeno[1,2,3-cd]pyrene	12	U	12	30
Naphthalene	12	U	12	100
Phenanthrene	12	U	12	40
Pyrene	12	U	12	40

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

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Lab Control Sample - Batch: 280-58342

Method: 8310
Preparation: 3550C

Lab Sample ID: LCS 280-58342/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1533
Date Prepared: 03/18/2011 1818

Analysis Batch: 280-58521
Prep Batch: 280-58342
Units: ug/Kg

Instrument ID: CHHPLC_G
Lab File ID: G0321009.D
Initial Weight/Volume: 30 g
Final Weight/Volume: 4000 uL
Injection Volume: 20 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	2000	2020	101	72 - 115	
Acenaphthylene	2000	1930	96	60 - 115	
Anthracene	2000	1800	90	61 - 115	
Benzo[a]anthracene	2000	2190	110	76 - 115	
Benzo[a]pyrene	2000	1720	86	69 - 115	
Benzo[b]fluoranthene	2000	2110	106	81 - 115	
Benzo[g,h,i]perylene	2000	2000	100	71 - 115	
Benzo[k]fluoranthene	2000	2130	107	85 - 115	
Chrysene	2000	2100	105	70 - 115	
Dibenzo(a,h)anthracene	2000	2140	107	79 - 115	
Fluoranthene	2000	2100	105	67 - 115	
Fluorene	2000	1970	99	72 - 115	
Indeno[1,2,3-cd]pyrene	2000	2240	112	76 - 115	
Naphthalene	2000	2070	104	77 - 115	
Phenanthrene	2000	2070	103	79 - 115	
Pyrene	2000	2100	105	77 - 115	

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

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-58342

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-13664-13	Analysis Batch: 280-58521	Instrument ID: CHHPLC_G
Client Matrix:	Solid	Prep Batch: 280-58342	Lab File ID: SIG10070.D
Dilution:	1.0		Initial Weight/Volume: 30.1 g
Date Analyzed:	03/22/2011 2236		Final Weight/Volume: 4000 uL
Date Prepared:	03/18/2011 1818		Injection Volume: 20 uL
			Column ID: PRIMARY

MSD Lab Sample ID:	280-13664-13	Analysis Batch: 280-58521	Instrument ID: CHHPLC_G
Client Matrix:	Solid	Prep Batch: 280-58342	Lab File ID: SIG10071.D
Dilution:	1.0		Initial Weight/Volume: 30.2 g
Date Analyzed:	03/22/2011 2306		Final Weight/Volume: 4000 uL
Date Prepared:	03/18/2011 1818		Injection Volume: 20 uL
			Column ID: PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	104	106	72 - 115	2	20		
Acenaphthylene	98	101	60 - 115	2	21		
Anthracene	91	93	61 - 115	2	20		
Benzo[a]anthracene	109	110	76 - 115	1	20		
Benzo[a]pyrene	87	88	69 - 115	1	20		
Benzo[b]fluoranthene	104	106	81 - 115	2	20		
Benzo[g,h,i]perylene	98	101	71 - 115	2	20		
Benzo[k]fluoranthene	105	107	85 - 115	2	20		
Chrysene	103	105	70 - 115	1	20		
Dibenzo(a,h)anthracene	105	107	79 - 115	2	20		
Fluoranthene	104	106	67 - 115	1	20		
Fluorene	101	104	72 - 115	2	20		
Indeno[1,2,3-cd]pyrene	109	112	76 - 115	2	20		
Naphthalene	105	108	77 - 115	3	20		
Phenanthrene	104	106	79 - 115	2	20		
Pyrene	104	106	77 - 115	1	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Terphenyl-d14 (SUR)	96	98	72 - 115

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Method Blank - Batch: 280-58305

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 280-58305/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1810
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58670
Prep Batch: 280-58305
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26b032111.asc
Initial Weight/Volume: 1 g
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Aluminum	1.6	U	1.6	5.0
Antimony	0.38	U	0.38	0.60
Barium	0.185	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	16.80	B	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
Manganese	0.10	U	0.10	1.0
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
Vanadium	0.094	U	0.094	2.0
Zinc	0.40	U	0.40	1.0

Method Blank - Batch: 280-58305

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 280-58305/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 1532
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58881
Prep Batch: 280-58305
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26a032211.asc
Initial Weight/Volume: 1 g
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Arsenic	0.66	U	0.66	1.0
Lead	0.27	U	0.27	0.50
Magnesium	4.89	B	3.7	20.0
Molybdenum	0.26	U	0.26	2.0

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Method Blank - Batch: 280-58305

Method: 6010B
Preparation: 3050B

Lab Sample ID: MB 280-58305/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/23/2011 1510
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-59078
Prep Batch: 280-58305
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26a032311.asc
Initial Weight/Volume: 1 g
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Sodium	59.0	U	59.0	120

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Lab Control Sample - Batch: 280-58305

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCS 280-58305/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1812
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58670
Prep Batch: 280-58305
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26b032111.asc
Initial Weight/Volume: 1 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	181.4	91	82 - 116	
Antimony	50.0	51.86	104	82 - 110	
Barium	200	180.8	90	87 - 112	
Beryllium	5.00	4.62	92	84 - 114	
Boron	100	90.19	90	81 - 110	
Cadmium	10.0	8.96	90	87 - 110	
Calcium	5000	4406	88	82 - 114	
Chromium	20.0	18.94	95	84 - 114	
Cobalt	50.0	46.74	93	87 - 110	
Copper	25.0	22.30	89	88 - 110	
Iron	100	95.63	96	87 - 120	
Manganese	50.0	45.17	90	88 - 110	
Nickel	50.0	49.25	98	87 - 110	
Potassium	5000	4771	95	89 - 110	
Selenium	200	210.4	105	83 - 110	
Silicon	1000	106.1	11	10 - 70	
Silver	5.00	4.34	87	87 - 114	
Vanadium	50.0	44.75	90	88 - 110	
Zinc	50.0	44.67	89	76 - 114	

Lab Control Sample - Batch: 280-58305

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCS 280-58305/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 1534
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58881
Prep Batch: 280-58305
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26a032211.asc
Initial Weight/Volume: 1 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	100	94.16	94	85 - 110	
Lead	50.0	47.54	95	86 - 110	
Magnesium	5000	4568	91	90 - 110	
Molybdenum	100	95.78	96	86 - 110	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Lab Control Sample - Batch: 280-58305

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCS 280-58305/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/23/2011 1513
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-59078
Prep Batch: 280-58305
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26a032311.asc
Initial Weight/Volume: 1 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sodium	5000	4862	97	90 - 112	

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Matrix Spike - Batch: 280-58305

Method: 6010B
Preparation: 3050B

Lab Sample ID: 280-13664-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1821
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58670
Prep Batch: 280-58305
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26b032111.asc
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	6490		205	7059	278	50 - 200	4
Antimony	0.35	U	51.2	33.63	66	20 - 200	
Barium	47.2		205	232.4	90	52 - 159	
Beryllium	0.030	U	5.12	4.33	84	72 - 105	
Boron	0.89	U	102	82.69	81	75 - 107	
Cadmium	0.037	U	10.2	8.45	83	40 - 130	
Calcium	4820		5120	9426	90	43 - 165	
Chromium	11.2		20.5	28.03	82	70 - 200	
Cobalt	6.4		51.2	48.65	82	72 - 106	
Copper	13.1		25.6	33.09	78	37 - 187	
Iron	13900		102	13970	22	70 - 200	4
Manganese	217		51.2	282.5	129	40 - 200	4
Nickel	12.5		51.2	55.85	85	61 - 126	
Potassium	850		5120	5471	90	56 - 172	
Selenium	1.3		205	195.0	95	76 - 104	
Silicon	182		1020	337.7	15	20 - 200	N
Silver	0.15	U	5.12	4.10	80	75 - 141	
Vanadium	37.2		51.2	82.35	88	50 - 169	
Zinc	31.9		51.2	73.94	82	70 - 200	

Matrix Spike - Batch: 280-58305

Method: 6010B
Preparation: 3050B

Lab Sample ID: 280-13664-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 1543
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58881
Prep Batch: 280-58305
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26a032211.asc
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	4.4		102	91.13	85	76 - 111	
Lead	11.7		51.2	54.66	84	70 - 200	
Magnesium	4220		5120	8319	80	64 - 145	
Molybdenum	0.37	B	102	88.42	86	75 - 103	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Matrix Spike - Batch: 280-58305

Method: 6010B
Preparation: 3050B

Lab Sample ID: 280-13664-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/23/2011 1522
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-59078
Prep Batch: 280-58305
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26a032311.asc
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Sodium	287	5120	4984	92	78 - 111	

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Duplicate - Batch: 280-58305

Method: 6010B
Preparation: 3050B

Lab Sample ID: 280-13664-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/21/2011 1819
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58670
Prep Batch: 280-58305
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26b032111.asc
Initial Weight/Volume: 1.15 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	6490		6382	2	40	
Antimony	0.35	U	0.36	NC	40	U
Barium	47.2		47.10	0.1	30	
Beryllium	0.030	U	0.0402	NC	30	B
Boron	0.89	U	0.92	NC	30	U
Cadmium	0.037	U	0.0542	NC	30	B
Calcium	4820		4705	2	30	
Chromium	11.2		9.57	16	40	
Cobalt	6.4		5.47	16	30	
Copper	13.1		11.64	12	30	
Iron	13900		14280	2	40	
Manganese	217		241.3	11	40	
Nickel	12.5		12.10	3	30	
Potassium	850		780.8	9	40	
Selenium	1.3		0.80	NC	30	U
Silicon	182		188.8	4	40	
Silver	0.15	U	0.15	NC	30	U
Vanadium	37.2		36.94	0.8	30	
Zinc	31.9		33.08	4	40	

Duplicate - Batch: 280-58305

Method: 6010B
Preparation: 3050B

Lab Sample ID: 280-13664-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 1541
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-58881
Prep Batch: 280-58305
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26a032211.asc
Initial Weight/Volume: 1.15 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Arsenic	4.4		4.36	0.4	30	
Lead	11.7		11.81	0.8	40	
Magnesium	4220		4549	8	30	
Molybdenum	0.37	B	0.24	NC	30	U

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Duplicate - Batch: 280-58305

Method: 6010B
Preparation: 3050B

Lab Sample ID: 280-13664-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/23/2011 1520
Date Prepared: 03/21/2011 0800

Analysis Batch: 280-59078
Prep Batch: 280-58305
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26a032311.asc
Initial Weight/Volume: 1.15 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Sodium	287	221.7	26	30	

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Method Blank - Batch: 280-58366

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 280-58366/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 1847
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58366
Units: mg/Kg

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-58366

Method: 7471A
Preparation: 7471A

Lab Sample ID: LCS 280-58366/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 2309
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58366
Units: mg/Kg

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.439	105	87 - 111	

Matrix Spike - Batch: 280-58366

Method: 7471A
Preparation: 7471A

Lab Sample ID: 280-13664-11
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 1928
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58366
Units: mg/Kg

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.68 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.0060	U	0.404	0.399	99	87 - 111	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Duplicate - Batch: 280-58366

Method: 7471A
Preparation: 7471A

Lab Sample ID: 280-13664-11
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/22/2011 1926
Date Prepared: 03/22/2011 1255

Analysis Batch: 280-58997
Prep Batch: 280-58366
Units: mg/Kg

Instrument ID: MT_033
Lab File ID: 110322AD.txt
Initial Weight/Volume: 0.61 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.0060	U	0.0060	NC	20	U

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-13664-1
Sdg Number: JP0125

Duplicate - Batch: 280-58326

Method: D-2216
Preparation: N/A

Lab Sample ID: 280-13664-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 03/18/2011 1500
Date Prepared: N/A

Analysis Batch: 280-58326
Prep Batch: N/A
Units: %

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	7.0	6.5	7	20	

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Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-063	Page 3 of 3
Collector: J. Kuepfer	Company Contact: Joan Kessner; Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 8B (OW 3-18-11); Data Turnaround: ~~21~~ 7 Days (OW 3-15-11)
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 116-H-5 Verification Resampleing	SAF No.: RC-107	
Ice Chest No.: ERC-02-002	Field Logbook No.: EL 1627-04; COA: R116H52600	Method of Shipment: AF 3-17-11 ~~Government Vehicle~~/FedEx	
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver (OW 3-15-11)	Offsite Property No.: NA	Bill of Lading/Air Bill No.: 7968 8392 9225 ~~7968 8136 8646~~ JEB 3-17-11	

POSSIBLE SAMPLE HAZARDS/REMARKS

~~None~~ RAD < DOT Limits JEB 3-17-11

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C								
Type of Container	G/P	aG	aG								
No. of Container(s)	1	1	1								
Volume	60mL	120mL	120mL								
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Semi-VOA - 8270A (TCL)	PAHs - 8310								

Sample No.	Matrix *	Sample Date	Sample Time										
J1FKL1	SOIL	3-16-11	1300	X	X	X							
J1FKL2	SOIL	3-16-11	1350	X	X	X							
J1FKL3	SOIL	3-16-11	1305	X	X	X							
				OW 3-16-11 X									

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J Kuepfer	3/16/11 1445	JV Fullmer	3/16/11 1445
JV Fullmer	3-16-11 1705	A. Freier	3-16-11 1705
A. Freier (WCH)	3-17-11 0945	Fed Ex	
			3/8/11 0930

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)

REVIEWED BY JEB DATE 3-17-11

JP0125

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

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Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-063	Page 1 of 3

Collector: J. Knepfer	Company Contact: Joan Kessner — Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 8B (QW 3-15-11) — Data Turnaround: ~~21~~ 7 Days (QW 3-15-11)
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 116-H-5 Verification Resampleing	SAF No.: RC-107	
Ice Chest No.: ERC-02-002	Field Logbook No.: EL 1627-04 — COA: R116H52600	Method of Shipment: AF 3-17-11 ~~Government Vehicle~~/FedEx	
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver (QW 3-15-11)	Offsite Property No.: NA	Bill of Lading/Air Bill No.: 7968 8392 9225 ~~7968 8136 8644~~ (JEB 3-17-11)	

POSSIBLE SAMPLE HAZARDS/REMARKS
~~None~~ RAD < DOT Limits JEB 3-17-11

Special Handling and/or Storage
Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C									
Type of Container	G/P	aG	aG									
No. of Container(s)	1	1	1									
Volume	60mL	120mL	120mL									
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Semi-VOA - 8270A (TCL)	PAHs - 8310									
Sample No. / Matrix * / Sample Date / Sample Time												
J1FKK1 / SOIL / 3-16-11 / 1400	X	X	X									
J1FKK2 / SOIL / 3-16-11 / 1356	X	X	X									
J1FKK3 / SOIL / 3-16-11 / 1405	X	X	X									
J1FKK4 / SOIL / 3-16-11 / 1352	X	X	X									
J1FKK5 / SOIL / 3-16-11 / 1345	X	X	X									

CHAIN OF POSSESSION	Sign/Print Names	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From: J Knepfer	J Knepfer	1445 3/16/11	Received By/Stored In: JV Fullmer	JV Fullmer 1445 3/16/11
Relinquished By/Removed From: JV Fullmer	JV Fullmer	3-16-11 1705	Received By/Stored In: A. Freier	A. Freier 1705 3-16-11
Relinquished By/Removed From: A. Freier (WCH)	A. Freier	3-17-11 0945	Received By/Stored In: Fed Ex	
Relinquished By/Removed From			Received By/Stored In	3/17/11 0930
Relinquished By/Removed From			Received By/Stored In	
Relinquished By/Removed From			Received By/Stored In	

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)

REVIEWED BY JEB DATE 3-17-11

JP0125

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

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Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-107-063	Page 2 of 3
Collector: J. Knepfer	Company Contact: Joan Kessner; Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH	Price Code: ~~8L~~ 8B (QV 3-18-11); Data Turnaround: ~~21~~ 7 Days (QV 3-18-11)
Project Designation: 100-H Remaining Sites Burial Grounds - Soil Full Protocol	Sampling Location: 116-H-5 Verification Resampleing	SAF No.: RC-107	
Ice Chest No.: ERC-02-002	Field Logbook No.: EL 1627-04; COA: R116H52600	Method of Shipment: AF 3-17-11 ~~Government Vehicle~~/FedEx	
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver (QV 3-18-11)	Offsite Property No.: NA	Bill of Lading/Air Bill No.: 7968 8392 9225 ~~7968 8136 8646~~ JEB 3-17-11	

POSSIBLE SAMPLE HAZARDS/REMARKS

~~None~~ RAD <DOT Limits JEB 3-17-11

Special Handling and/or Storage

Cool 4 Deg C

Preservation	None	Cool 4C	Cool 4C									
Type of Container	G/P	aG	aG									
No. of Container(s)	1	1	1									
Volume	60mL	120mL	120mL									
SAMPLE ANALYSIS	See item (1) in Special Instructions.	Semi-VOA - 8270A (TCL)	PAHs - 8310									
Sample No.	Matrix *	Sample Date	Sample Time									
J1FKK6	SOIL	3-16-11	1340	X	X	X						
J1FKK7	SOIL	3-16-11	1310	X	X	X						
J1FKK8	SOIL	3-16-11	1305	X	X	X						
J1FKK9	SOIL	3-16-11	1343	X	X	X						
J1FKL0	SOIL	3-16-11	1330	X	X	X						

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
J Knepfer	3/16/11 1445	JV Fullmer	1445 3/16/11
JV Fullmer	3-16-11 1705	A. Freier	1705 3-16-11
WCH A. Freier	3-17-11 0945	Fed Ex	
			3/17 0830

SPECIAL INSTRUCTIONS

(1) ICP Metals - 6010TR (Close-out List) {Aluminum, Antimony, Arsenic, Barium, Beryllium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Potassium, Selenium, Silicon, Silver, Sodium, Vanadium, Zinc}; Mercury - 7471 - (CV)

REVIEWED BY JEB DATE 3-17-11

JP0125

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

LABORATORY SECTION	Received By	Title	Date/Time
FINAL SAMPLE DISPOSITION	Disposal Method	Disposed By	Date/Time

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 - 6010TE Solid

Analytical Due:

Report Due: 3/25/11 (Rush 5d TAT)

Sample Check-in List

Date/Time Received: 3/18/11 0930 GM Screen Result 15 microR/hr

Client: Washington Closure Hanford SDG #: JP0125 NA[ ] SAF #: RC-107 NA [ ]

Job Number: 13664 Chain of Custody # RC-107-063

Shipping Container ID: AFS-04-120 ERC-02-002 GWS-132 GWS-130 Air Bill # 7968 8392 9270 7968 8392 9420 7968 8392 9225, 7968 8392 5523

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: 2.4°C, 2.7, 3.4, 4.7 NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [✓] Dry [ ]
6. Number of samples in shipping container: 13
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ✓ Tape
   - ✓ Custody Seals
   - ____ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - ____ Broken
   - ____ Leaking
   - ____ Have Air Bubbles (Only for samples requiring no head space.)
10. Sample pH taken? NA [✓] pH<2 [ ] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added ____
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers): ____

Sample Custodian: [signature] Date: 3/18/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ____ by ____ Person Contacted ____

[ ] No action necessary; process as is.

Project Manager [signature] Date 3/21/11

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

RICHLAND, WA 99354

FedEx. Express

J11101012220225

Ship Date: 17MAR11
ActWgt: 80.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

1 of 4

FRI - 18 MAR A1
PRIORITY OVERNIGHT

TRK# 7968 8392 9225
0201

MASTER

XH WHHA

80002
CO-US
DEN

50DG2/BDD9/7EFB

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2. Fold the printed page along the horizontal line.
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From: (509) 375-4640 Origin ID: PSCA
WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx Express

J11101012220225

Ship Date: 17MAR11
ActWgt: 48.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

2 of 4

FRI - 18 MAR A1
PRIORITY OVERNIGHT

MPS# 0263 7968 8392 9270

Mstr# 7968 8392 9225 0201

XH WHHA

80002
CO-US
DEN

50DG2/BDD9/7EFB

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WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx. Express

J11101012220225

Ship Date: 17MAR11
ActWgt: 65.0 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 #

3 of 4

FRI - 18 MAR A1
PRIORITY OVERNIGHT

MPS# 7968 8392 9420
0263
Mstr# 7968 8392 9225 0201

XH WHHA

80002
CO-US
DEN

50DG2/8D09/7EFB

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WCH MAILROOM
WASHINGTON CLOSURE HANFORD
2620 FERMI AVE

RICHLAND, WA 99354

FedEx. Express

J111010122202 25

Ship Date: 17MAR11
ActWgt: 71.0 LB
CAD: 8897843/INET3130

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (303) 736-0100 BILL SENDER

Sample Recieving
Test America Denver
4955 YARROW ST

ARVADA, CO 80002

4 of 4

FRI - 18 MAR A1
PRIORITY OVERNIGHT

MPS# 7968 8392 9523
0263
Mstr# 7968 8392 9225 0201

XH WHHA

80002
CO-US
DEN

50DG2/BDD9/7EFB

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