0096040

SAF-RC-211
100-IU-2 & 100-IU-6 Miscellaneous Restoration Sites Near 100-F – Soil In-Process
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 4/25/11
INITIAL/DATE

COMMENTS:

SDG J01080 SAF-RC-211

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location: 100-IU-2 600-311

RECEIVED
MAY 10 2011
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TestAmerica

ANALYTICAL REPORT

Job Number: 280-14243-1

SDG Number: J01080

Job Description: SAF# RC-211

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

Attention: Joan H Kessner

Approved for release.
Michael T Dedio
Project Mgmt. Assistant
4/21/2011 8:50 AM

Designee for
Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
04/21/2011

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

The Lab Certification ID# is E87667.

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

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

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CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-14243-1

SDG #: J01080
SAF#: RC-211

Date SDG Closed: April 6, 2011
Data Deliverable: 15 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1H136	280-14243-1	6010/7471/1311-6010-7470/ NWTPH-G/ NWTPH-Dx/8270A/8310/8082/9056/353.2	6010B/7471A//NWTPH-G/NWTPH-Dx/ 8270C/8310/8082/9056/353.2

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 sample was received on 4/6/2011; the sample arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 5.8 C.

Sample J1H136, requesting TCLP Metals 1311/6010B/7470A analyses, was leached and placed on hold, as instructed on the chain-of-custody.

GC/MS SEMIVOLATILES - SW846 8270C
Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the method. Due to the presence of interfering, non-target compounds, sample J1H136 had to be analyzed at a dilution, and the associated results have been flagged with a "D". The reporting limits have been adjusted relative to the dilution required. The laboratory noted that analysis at a less diluted concentration would jeopardize the integrity of the instrument.

Surrogate recoveries have been "D" flagged in sample J1H136, as the recoveries obtained are calculated from a diluted sample and are not considered reliable.

Spike compound recoveries, RPD data and surrogate recoveries have been "D" flagged in the MS/MSD performed on sample J1H136, as the recoveries obtained are calculated from diluted samples and are not considered reliable. The acceptable LCS analysis data indicated that the analytical system was operating within control.

No other anomalies were encountered.

GC VOLATILES - NWTPH-Gx - GRO
Low levels of Gasoline are present in the method blank associated with batch 280-61262. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary. Associated sample results present above the MDL and/or RL have been flagged with a "B".

The MS/MSD performed on sample J1H136 exhibited the percent recovery outside the control limits, and the associated sample result has been flagged "N". The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

GC SEMIVOLATILES - SW846 8082 - PCBs
No anomalies were encountered.

GC SEMIVOLATILES - NWTPH-Dx - DRO
The MS/MSD performed on sample J1H136 exhibited the percent recovery outside the control limits, and the associated sample result has been flagged "N". The acceptable LCS analysis data indicated that the analytical system was operating within control; therefore, corrective action is deemed unnecessary. It can be noted that the Matrix Spike had to be run at a 2X dilution, the Matrix spike data has been "D" flagged.

No other anomalies were encountered.

HPLC - SW846 8310 - PAHs
No anomalies were encountered.

TOTAL METALS - SW846 6010B/7471A
Low levels of Silver are present in the method blank associated with batch 280-60992. 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, Calcium, Iron, Manganese and Zinc in the Matrix Spike performed on sample J1H136; therefore, control limits are not applicable.

Chromium and Silicon were recovered outside the control limits in the SW846 6010B Matrix Spike performed on sample J1H136, and the associated sample result has been flagged "N". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

The SW846 6010A duplicate analysis of sample J1H136 exhibited RPD data outside the control limits for Copper, and the associated sample result has been flagged "M". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

GENERAL CHEMISTRY - MCAWW 353.2 - NITRATE+NITRITE
No anomalies were encountered.

GENERAL CHEMISTRY - SW846 9056M - ANIONS
No anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Lab Section	Qualifier	Description
GC/MS Semi VOA		
	U	Analyzed for but not detected.
	J	Indicates an Estimated Value for TICs
	N	Presumptive evidence of material.
	D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
GC VOA		
	B	Analyte was found in the associated method blank as well as in the sample.
	N	MS, MSD: Spike recovery exceeds upper or lower control limits.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC Semi VOA		
	U	Analyzed for but not detected.
	N	MS, MSD: Spike recovery exceeds upper or lower control limits.
	D	The reported value is from a dilution.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Lab Section	Qualifier	Description
Metals		
	U	Analyzed for but not detected.
	B	Estimated result. Result is less than the RL, but greater than MDL
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	N	Recovery exceeds upper or lower control limits
	M	Sample duplicate precision not met.
	X	Serial dilution in the analytical batch indicates that physical and chemical interferences are present.
	C	The analyte was detected in both the sample and the assoicated QC blank, and the sample concentration was </= 5X the blank concentration.
General Chemistry		
	U	Analyzed for but not detected.
	B	Estimated result. Result is less than the RL, but greater than MDL
HPLC/IC		
	U	Analyzed for but not detected.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Semivolatile Organic Compounds (GC/MS)	TAL DEN	SW846 8270C	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Northwest - Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Gx	
Purge and Trap	TAL DEN		SW846 5030B
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL DEN	SW846 8082	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Northwest - Semi-Volatile Petroleum Products (GC)	TAL DEN	NWTPH NWTPH-Dx	
Ultrasonic Extraction	TAL DEN		SW846 3550C
PAHs (HPLC)	TAL DEN	SW846 8310	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury	TAL DEN		SW846 7471A
Nitrogen, Nitrate-Nitrite	TAL DEN	MCAWW 353.2	
Deionized Water Leaching Procedure	TAL DEN		ASTM DI Leach
Anions, Ion Chromatography	TAL DEN	SW846 9056M	
Deionized Water Leaching Procedure	TAL DEN		ASTM DI Leach
ASTM D-2216	TAL DEN	ASTM D-2216	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

NWTPH = Northwest Total Petroleum Hydrocarbon

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

METHOD / ANALYST SUMMARY

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Method	Analyst	Analyst ID
SW846 8270C	Kiekel, Daniel C	DCK
NWTPH NWTPH-Gx	Moore, Tegan E	TEM
SW846 8082	Pavlakovich, Adam M	AMP
NWTPH NWTPH-Dx	Birdsell, Matthew R	MRB
SW846 6010B	Harre, John K	JKH
SW846 7471A	Stoltz, Katie	KS
MCAWW 353.2	Stosak, Lara E	LES
SW846 9056M	Phan, Thu L	TLP
ASTM D-2216	Berry III, Paul B	PBB
SW846 8310	Hall, Koley J	KJH

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-14243-1	J1H136	Solid	04/04/2011 0830	04/06/2011 0900

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Client Sample ID: **J1H136**

Lab Sample ID: 280-14243-1
Client Matrix: Solid
% Moisture: 3.0

Date Sampled: 04/04/2011 0830
Date Received: 04/06/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-61597	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-61172	Lab File ID:	K9874.D
Dilution:	4.0			Initial Weight/Volume:	30.7 g
Analysis Date:	04/08/2011 1751			Final Weight/Volume:	1000 uL
Prep Date:	04/07/2011 1320			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
Acenaphthene		42	U D	42	1300
Acenaphthylene		69	U D	69	1300
Anthracene		69	U D	69	1300
Benzo[a]anthracene		81	U D	81	1300
Benzo[a]pyrene		81	U D	81	1300
Benzo[b]fluoranthene		110	U D	110	1300
Benzo[ghi]perylene		64	U D	64	1300
Benzo[k]fluoranthene		160	U D	160	1300
Bis(2-chloroethoxy)methane		93	U D	93	1300
Bis(2-chloroethyl)ether		67	U D	67	1300
bis (2-chloroisopropyl) ether		93	U D	93	1300
Bis(2-ethylhexyl) phthalate		190	U D	190	1300
4-Bromophenyl phenyl ether		77	U D	77	1300
Butyl benzyl phthalate		170	U D	170	1300
Carbazole		150	U D	150	1300
4-Chloroaniline		330	U D	330	1300
4-Chloro-3-methylphenol		270	U D	270	1300
2-Chloronaphthalene		40	U D	40	1300
2-Chlorophenol		85	U D	85	1300
4-Chlorophenyl phenyl ether		85	U D	85	1300
Chrysene		110	U D	110	1300
Dibenz(a,h)anthracene		77	U D	77	1300
Dibenzofuran		81	U D	81	1300
1,2-Dichlorobenzene		89	U D	89	1300
1,3-Dichlorobenzene		48	U D	48	1300
1,4-Dichlorobenzene		55	U D	55	1300
3,3'-Dichlorobenzidine		360	U D	360	2700
2,4-Dichlorophenol		40	U D	40	1300
Diethyl phthalate		100	U D	100	1300
2,4-Dimethylphenol		270	U D	270	1300
Dimethyl phthalate		93	U D	93	1300
Di-n-butyl phthalate		120	U D	120	1300
4,6-Dinitro-2-methylphenol		1300	U D	1300	2700
2,4-Dinitrophenol		1300	U D	1300	3300
2,4-Dinitrotoluene		270	U D	270	1300
2,6-Dinitrotoluene		110	U D	110	1300
Di-n-octyl phthalate		58	U D	58	1300
Fluoranthene		150	U D	150	1300
Fluorene		73	U D	73	1300
Hexachlorobenzene		120	U D	120	1300
Hexachlorobutadiene		40	U D	40	1300
Hexachlorocyclopentadiene		200	U D	200	1300
Hexachloroethane		86	U D	86	1300
Indeno[1,2,3-cd]pyrene		89	U D	89	1300
Isophorone		69	U D	69	1300
2-Methylnaphthalene		77	U D	77	1300

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Client Sample ID: **J1H136**

Lab Sample ID: 280-14243-1
Client Matrix: Solid

% Moisture: 3.0

Date Sampled: 04/04/2011 0830
Date Received: 04/06/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-61597	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-61172	Lab File ID:	K9874.D
Dilution:	4.0			Initial Weight/Volume:	30.7 g
Analysis Date:	04/08/2011 1751			Final Weight/Volume:	1000 uL
Prep Date:	04/07/2011 1320			Injection Volume:	0.5 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
2-Methylphenol		52	U D	52	1300
3 & 4 Methylphenol		130	U D	130	1300
Naphthalene		120	U D	120	1300
2-Nitroaniline		200	U D	200	1300
3-Nitroaniline		290	U D	290	1300
4-Nitroaniline		290	U D	290	1300
Nitrobenzene		89	U D	89	1300
2-Nitrophenol		40	U D	40	1300
4-Nitrophenol		390	U D	390	2700
N-Nitrosodi-n-propylamine		120	U D	120	1300
N-Nitrosodiphenylamine		85	U D	85	1300
Pentachlorophenol		1300	U D	1300	2700
Phenanthrene		69	U D	69	1300
Phenol		73	U D	73	1300
Pyrene		49	U D	49	1300
1,2,4-Trichlorobenzene		110	U D	110	1300
2,4,5-Trichlorophenol		40	U D	40	1300
2,4,6-Trichlorophenol		40	U D	40	1300

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	97	D	50 - 120
2-Fluorophenol	86	D	53 - 120
Nitrobenzene-d5	86	D	50 - 120
Phenol-d5	95	D	52 - 120
Terphenyl-d14	104	D	55 - 120
2,4,6-Tribromophenol	92	D	51 - 120

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Client Sample ID: **J1H136**

Lab Sample ID: 280-14243-1
Client Matrix: Solid

% Moisture: 3.0

Date Sampled: 04/04/2011 0830
Date Received: 04/06/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	280-61597	Instrument ID:	MSS_K
Prep Method:	3550C	Prep Batch:	280-61172	Lab File ID:	K9874.D
Dilution:	4.0			Initial Weight/Volume:	30.7 g
Analysis Date:	04/08/2011 1751			Final Weight/Volume:	1000 uL
Prep Date:	04/07/2011 1320			Injection Volume:	0.5 uL

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

Cas Number	Analyte	RT	Est. Result (ug/Kg)	Qualifier
	Unknown	3.04	4000	N J

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Client Sample ID: **J1H136**

Lab Sample ID: 280-14243-1
Client Matrix: Solid

% Moisture: 3.0

Date Sampled: 04/04/2011 0830
Date Received: 04/06/2011 0900

NWTPH-Gx Northwest - Volatile Petroleum Products (GC)

Analysis Method:	NWTPH-Gx	Analysis Batch:	280-62315	Instrument ID:	GCV_L
Prep Method:	5030B	Prep Batch:	280-61262	Initial Weight/Volume:	9.94 g
Dilution:	1.0			Final Weight/Volume:	500 mL
Analysis Date:	04/12/2011 1921			Injection Volume:	5 mL
Prep Date:	04/07/2011 1618			Result Type:	PRIMARY

DryWt Corrected: Y

Analyte	Result (ug/Kg)	Qualifier	MDL	RL
Gasoline	2000	N B	340	1200

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	95		77 - 123

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Client Sample ID: **J1H136**

Lab Sample ID: 280-14243-1
Client Matrix: Solid

% Moisture: 3.0

Date Sampled: 04/04/2011 0830
Date Received: 04/06/2011 0900

8082 Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082	Analysis Batch:	280-61879	Instrument ID:	GCS_P3
Prep Method:	3550C	Prep Batch:	280-61118	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	5000 uL
Analysis Date:	04/12/2011 1256			Injection Volume:	1 uL
Prep Date:	04/07/2011 1000			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Decachlorobiphenyl	64		59 - 130
Tetrachloro-m-xylene	104		53 - 128

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Client Sample ID: **J1H136**

Lab Sample ID: 280-14243-1
Client Matrix: Solid % Moisture: 3.0

Date Sampled: 04/04/2011 0830
Date Received: 04/06/2011 0900

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

Analysis Method:	NWTPH-Dx	Analysis Batch:	280-62424	Instrument ID:	GCS_U
Prep Method:	3550C	Prep Batch:	280-61110	Lab File ID:	040B4001.D
Dilution:	1.0			Initial Weight/Volume:	30.1 g
Analysis Date:	04/12/2011 0500			Final Weight/Volume:	1000 uL
Prep Date:	04/07/2011 1000			Injection Volume:	1 uL

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
C10-C36		190000	N	1000	4100
C10-C28		43000	N	700	4100

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	84		49 - 115

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Client Sample ID: **J1H136**

Lab Sample ID: 280-14243-1
Client Matrix: Solid

% Moisture: 3.0

Date Sampled: 04/04/2011 0830
Date Received: 04/06/2011 0900

8310 PAHs (HPLC)

Analysis Method:	8310	Analysis Batch:	280-61577	Instrument ID:	CHHPLC_G
Prep Method:	3550C	Prep Batch:	280-61159	Initial Weight/Volume:	30.5 g
Dilution:	1.0			Final Weight/Volume:	4000 uL
Analysis Date:	04/11/2011 2206			Injection Volume:	20 uL
Prep Date:	04/07/2011 1055			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
Terphenyl-d14 (SUR)	87		72 - 115

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Client Sample ID: **J1H136**

Lab Sample ID: 280-14243-1
Client Matrix: Solid

% Moisture: 3.0

Date Sampled: 04/04/2011 0830
Date Received: 04/06/2011 0900

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-61586	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-60992	Lab File ID:	25b040811.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	04/08/2011 2004			Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum	15500		1.4	4.6
Antimony	0.35	U	0.35	0.55
Barium	93.2		0.070	0.46
Beryllium	0.095	B	0.030	0.18
Boron	5.7		0.90	1.8
Cadmium	0.20		0.038	0.18
Calcium	75300	X	13.0	46.0
Chromium	55.5	N	0.053	0.18
Cobalt	11.6	X	0.092	0.92
Copper	44.0	M	0.20	0.92
Iron	22500		3.5	4.6
Magnesium	12700		3.4	18.4
Manganese	387		0.092	0.92
Molybdenum	0.66	B	0.24	1.8
Nickel	56.8	X	0.11	3.7
Potassium	1060		37.7	276
Selenium	0.79	U	0.79	0.92
Silicon	377	N	5.2	9.2
Silver	0.66	C	0.15	0.18
Sodium	414		54.3	110
Vanadium	85.6		0.087	1.8
Zinc	340	X	0.37	0.92

Analysis Method:	6010B	Analysis Batch:	280-61750	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-60992	Lab File ID:	25A4041111.asc
Dilution:	1.0			Initial Weight/Volume:	1.12 g
Analysis Date:	04/11/2011 1929			Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic	4.4		0.61	0.92
Lead	33.2		0.25	0.46

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-61555	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-61090	Lab File ID:	110408AD.txt
Dilution:	1.0			Initial Weight/Volume:	0.63 g
Analysis Date:	04/08/2011 2105			Final Weight/Volume:	50 mL
Prep Date:	04/08/2011 1110				

DryWt Corrected: Y

Analyte	Result (mg/Kg)	Qualifier	MDL	RL
Mercury	0.0083	B	0.0054	0.017

General Chemistry

Client Sample ID: **J1H136**

Lab Sample ID: 280-14243-1
Client Matrix: Solid
% Moisture: 3.0

Date Sampled: 04/04/2011 0830
Date Received: 04/06/2011 0900

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate Nitrite as N-Soluble	2.0		mg/Kg	0.37	0.77	1.0	353.2
Analysis Batch: 280-62852	Analysis Date: 04/18/2011 1615						DryWt Corrected: Y
Chloride-Soluble	2.0	U	mg/Kg	2.0	5.2	1.0	9056M
Analysis Batch: 280-61487	Analysis Date: 04/08/2011 0514						DryWt Corrected: Y
Nitrate as N-Soluble	3.2		mg/Kg	0.32	2.6	1.0	9056M
Analysis Batch: 280-61486	Analysis Date: 04/08/2011 0514						DryWt Corrected: Y
Bromide-Soluble	0.40	U	mg/Kg	0.40	2.1	1.0	9056M
Analysis Batch: 280-61487	Analysis Date: 04/08/2011 0514						DryWt Corrected: Y
Nitrite as N-Soluble	0.35	U	mg/Kg	0.35	2.6	1.0	9056M
Analysis Batch: 280-61486	Analysis Date: 04/08/2011 0514						DryWt Corrected: Y
Orthophosphate as P-Soluble	1.3	U	mg/Kg	1.3	5.2	1.0	9056M
Analysis Batch: 280-61486	Analysis Date: 04/08/2011 0514						DryWt Corrected: Y
Sulfate-Soluble	26.6		mg/Kg	1.8	5.2	1.0	9056M
Analysis Batch: 280-61487	Analysis Date: 04/08/2011 0514						DryWt Corrected: Y
Fluoride-Soluble	0.85	U	mg/Kg	0.85	5.2	1.0	9056M
Analysis Batch: 280-61487	Analysis Date: 04/08/2011 0514						DryWt Corrected: Y

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	3.0		%	0.10	0.10	1.0	D-2216
Analysis Batch: 280-60969	Analysis Date: 04/06/2011 1403						DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 280-61172					
LCS 280-61172/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-61172/1-A	Method Blank	T	Solid	3550C	
280-14243-1	J1H136	T	Solid	3550C	
280-14243-1MS	Matrix Spike	T	Solid	3550C	
280-14243-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
Analysis Batch:280-61597					
LCS 280-61172/2-A	Lab Control Sample	T	Solid	8270C	280-61172
MB 280-61172/1-A	Method Blank	T	Solid	8270C	280-61172
280-14243-1	J1H136	T	Solid	8270C	280-61172
280-14243-1MS	Matrix Spike	T	Solid	8270C	280-61172
280-14243-1MSD	Matrix Spike Duplicate	T	Solid	8270C	280-61172

Report Basis
T = Total

GC VOA					
Prep Batch: 280-61262					
LCS 280-61262/1-A	Lab Control Sample	T	Solid	5030B	
LCSD 280-61262/2-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 280-61262/3-A	Method Blank	T	Solid	5030B	
280-14243-1	J1H136	T	Solid	5030B	
280-14243-1MS	Matrix Spike	T	Solid	5030B	
280-14243-1MSD	Matrix Spike Duplicate	T	Solid	5030B	
Analysis Batch:280-62315					
LCS 280-61262/1-A	Lab Control Sample	T	Solid	NWTPH-Gx	280-61262
LCSD 280-61262/2-A	Lab Control Sample Duplicate	T	Solid	NWTPH-Gx	280-61262
280-14243-1	J1H136	T	Solid	NWTPH-Gx	280-61262
280-14243-1MS	Matrix Spike	T	Solid	NWTPH-Gx	280-61262
280-14243-1MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Gx	280-61262
Analysis Batch:280-62622					
MB 280-61262/3-A	Method Blank	T	Solid	NWTPH-Gx	280-61262

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-61110					
LCS 280-61110/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-61110/1-A	Method Blank	T	Solid	3550C	
280-14243-1	J1H136	T	Solid	3550C	
280-14243-1MS	Matrix Spike	T	Solid	3550C	
280-14243-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
Prep Batch: 280-61118					
LCS 280-61118/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-61118/1-A	Method Blank	T	Solid	3550C	
280-14243-1	J1H136	T	Solid	3550C	
280-14243-1MS	Matrix Spike	T	Solid	3550C	
280-14243-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
Analysis Batch:280-61879					
LCS 280-61118/2-A	Lab Control Sample	T	Solid	8082	280-61118
MB 280-61118/1-A	Method Blank	T	Solid	8082	280-61118
280-14243-1	J1H136	T	Solid	8082	280-61118
280-14243-1MS	Matrix Spike	T	Solid	8082	280-61118
280-14243-1MSD	Matrix Spike Duplicate	T	Solid	8082	280-61118
Analysis Batch:280-62424					
LCS 280-61110/2-A	Lab Control Sample	T	Solid	NWTPH-Dx	280-61110
MB 280-61110/1-A	Method Blank	T	Solid	NWTPH-Dx	280-61110
280-14243-1	J1H136	T	Solid	NWTPH-Dx	280-61110
280-14243-1MSD	Matrix Spike Duplicate	T	Solid	NWTPH-Dx	280-61110
Analysis Batch:280-62426					
280-14243-1MS	Matrix Spike	T	Solid	NWTPH-Dx	280-61110

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-60992					
LCS 280-60992/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-60992/1-A	Method Blank	T	Solid	3050B	
280-14243-1	J1H136	T	Solid	3050B	
280-14243-1DU	Duplicate	T	Solid	3050B	
280-14243-1MS	Matrix Spike	T	Solid	3050B	
Prep Batch: 280-61090					
LCS 280-61090/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-61090/1-A	Method Blank	T	Solid	7471A	
280-14243-1	J1H136	T	Solid	7471A	
280-14243-1DU	Duplicate	T	Solid	7471A	
280-14243-1MS	Matrix Spike	T	Solid	7471A	
Analysis Batch:280-61555					
LCS 280-61090/2-A	Lab Control Sample	T	Solid	7471A	280-61090
MB 280-61090/1-A	Method Blank	T	Solid	7471A	280-61090
280-14243-1	J1H136	T	Solid	7471A	280-61090
280-14243-1DU	Duplicate	T	Solid	7471A	280-61090
280-14243-1MS	Matrix Spike	T	Solid	7471A	280-61090
Analysis Batch:280-61586					
LCS 280-60992/2-A	Lab Control Sample	T	Solid	6010B	280-60992
MB 280-60992/1-A	Method Blank	T	Solid	6010B	280-60992
280-14243-1	J1H136	T	Solid	6010B	280-60992
280-14243-1DU	Duplicate	T	Solid	6010B	280-60992
280-14243-1MS	Matrix Spike	T	Solid	6010B	280-60992
Analysis Batch:280-61750					
LCS 280-60992/2-A	Lab Control Sample	T	Solid	6010B	280-60992
MB 280-60992/1-A	Method Blank	T	Solid	6010B	280-60992
280-14243-1	J1H136	T	Solid	6010B	280-60992
280-14243-1DU	Duplicate	T	Solid	6010B	280-60992
280-14243-1MS	Matrix Spike	T	Solid	6010B	280-60992

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-60969					
280-14243-1	J1H136	T	Solid	D-2216	
280-14243-1DU	Duplicate	T	Solid	D-2216	
Prep Batch: 280-61225					
LCS 280-61225/1-A	Lab Control Sample	S	Solid	DI Leach	
MB 280-61225/2-A	Method Blank	S	Solid	DI Leach	
280-14243-1	J1H136	S	Solid	DI Leach	
280-14243-1DU	Duplicate	S	Solid	DI Leach	
280-14243-1MS	Matrix Spike	S	Solid	DI Leach	
Analysis Batch:280-61486					
LCS 280-61225/1-A	Lab Control Sample	S	Solid	9056M	
MB 280-61225/2-A	Method Blank	S	Solid	9056M	
280-14243-1	J1H136	S	Solid	9056M	
280-14243-1DU	Duplicate	S	Solid	9056M	
280-14243-1MS	Matrix Spike	S	Solid	9056M	
Analysis Batch:280-61487					
LCS 280-61225/1-A	Lab Control Sample	S	Solid	9056M	
MB 280-61225/2-A	Method Blank	S	Solid	9056M	
280-14243-1	J1H136	S	Solid	9056M	
280-14243-1DU	Duplicate	S	Solid	9056M	
280-14243-1MS	Matrix Spike	S	Solid	9056M	
Prep Batch: 280-62807					
LCS 280-62807/2-A	Lab Control Sample	S	Solid	DI Leach	
MB 280-62807/1-A	Method Blank	S	Solid	DI Leach	
280-14243-1	J1H136	S	Solid	DI Leach	
280-14243-1DU	Duplicate	S	Solid	DI Leach	
280-14243-1MS	Matrix Spike	S	Solid	DI Leach	
Analysis Batch:280-62852					
LCS 280-62807/2-A	Lab Control Sample	S	Solid	353.2	
MB 280-62807/1-A	Method Blank	S	Solid	353.2	
280-14243-1	J1H136	S	Solid	353.2	
280-14243-1DU	Duplicate	S	Solid	353.2	
280-14243-1MS	Matrix Spike	S	Solid	353.2	

Report Basis
S = Soluble
T = Total

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
HPLC/IC					
Prep Batch: 280-61159					
LCS 280-61159/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-61159/1-A	Method Blank	T	Solid	3550C	
280-14243-1	J1H136	T	Solid	3550C	
280-14243-1MS	Matrix Spike	T	Solid	3550C	
280-14243-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
Analysis Batch:280-61577					
LCS 280-61159/2-A	Lab Control Sample	T	Solid	8310	280-61159
MB 280-61159/1-A	Method Blank	T	Solid	8310	280-61159
280-14243-1	J1H136	T	Solid	8310	280-61159
280-14243-1MS	Matrix Spike	T	Solid	8310	280-61159
280-14243-1MSD	Matrix Spike Duplicate	T	Solid	8310	280-61159

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Method Blank - Batch: 280-61172

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-61172/1-A	Analysis Batch:	280-61597	Instrument ID:	MSS_K
Client Matrix:	Solid	Prep Batch:	280-61172	Lab File ID:	K9862.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.7 g
Analysis Date:	04/08/2011 1345	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/07/2011 1320			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	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	22	U	22	320
Bis(2-chloroethyl)ether	16	U	16	320
bis (2-chloroisopropyl) ether	22	U	22	320
Bis(2-ethylhexyl) phthalate	45	U	45	320
4-Bromophenyl phenyl ether	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	64	U	64	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	21	U	21	320
1,3-Dichlorobenzene	12	U	12	320
1,4-Dichlorobenzene	13	U	13	320
3,3'-Dichlorobenzidine	88	U	88	640
2,4-Dichlorophenol	9.8	U	9.8	320
Diethyl phthalate	25	U	25	320
2,4-Dimethylphenol	64	U	64	320
Dimethyl phthalate	22	U	22	320
Di-n-butyl phthalate	28	U	28	320
4,6-Dinitro-2-methylphenol	320	U	320	640
2,4-Dinitrophenol	330	U	330	810
2,4-Dinitrotoluene	64	U	64	320
2,6-Dinitrotoluene	27	U	27	320
Di-n-octyl phthalate	14	U	14	320
Fluoranthene	35	U	35	320
Fluorene	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	21	U	21	320
Isophorone	17	U	17	320

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Method Blank - Batch: 280-61172

Method: 8270C
Preparation: 3550C

Lab Sample ID:	MB 280-61172/1-A	Analysis Batch:	280-61597	Instrument ID:	MSS_K
Client Matrix:	Solid	Prep Batch:	280-61172	Lab File ID:	K9862.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.7 g
Analysis Date:	04/08/2011 1345	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/07/2011 1320			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
2-Methylnaphthalene	19	U	19	320
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	21	U	21	320
2-Nitrophenol	9.8	U	9.8	320
4-Nitrophenol	95	U	95	640
N-Nitrosodi-n-propylamine	30	U	30	320
N-Nitrosodiphenylamine	21	U	21	320
Pentachlorophenol	320	U	320	640
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	Acceptance Limits
2-Fluorobiphenyl	82	50 - 120
2-Fluorophenol	80	53 - 120
Nitrobenzene-d5	84	50 - 120
Phenol-d5	81	52 - 120
Terphenyl-d14	91	55 - 120
2,4,6-Tribromophenol	90	51 - 120

Method Blank TICs- Batch: 280-61172

Cas Number	Analyte	RT	Est. Result	Qual
2213-23-2	Heptane, 2,4-dimethyl-	2.85	259	N J
2216-30-0	Heptane, 2,5-dimethyl-	2.97	331	N J
1069-53-0	Hexane, 2,3,5-trimethyl-	2.80	173	N J
	Unknown	1.80	176	N J
	Unknown	1.65	2770	N J
	Unknown	3.05	3220	N J

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Lab Control Sample - Batch: 280-61172

Method: 8270C
Preparation: 3550C

Lab Sample ID:	LCS 280-61172/2-A	Analysis Batch:	280-61597	Instrument ID:	MSS_K
Client Matrix:	Solid	Prep Batch:	280-61172	Lab File ID:	K9863.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.4 g
Analysis Date:	04/08/2011 1405	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/07/2011 1320			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	2550	2240	88	52 - 120	
Anthracene	2550	2390	94	57 - 120	
Carbazole	2550	2320	91	54 - 120	
4-Chloro-3-methylphenol	2550	2360	93	57 - 120	
2-Chlorophenol	2550	2090	82	53 - 120	
1,4-Dichlorobenzene	2550	1900	75	46 - 120	
2,4-Dinitrotoluene	2550	2480	97	53 - 120	
2-Methylnaphthalene	2550	2110	83	55 - 120	
2-Methylphenol	2550	2110	83	51 - 120	
4-Nitrophenol	2550	2380	94	41 - 120	
N-Nitrosodi-n-propylamine	2550	2130	84	51 - 120	
Pentachlorophenol	2550	2490	98	30 - 120	
Phenol	2550	2140	84	54 - 120	
Pyrene	2550	2550	100	50 - 120	
1,2,4-Trichlorobenzene	2550	2000	79	50 - 120	
2,4,6-Trichlorophenol	2550	2530	99	50 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl	87	50 - 120
2-Fluorophenol	78	53 - 120
Nitrobenzene-d5	83	50 - 120
Phenol-d5	82	52 - 120
Terphenyl-d14	100	55 - 120
2,4,6-Tribromophenol	98	51 - 120

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-61172

Method: 8270C
Preparation: 3550C

MS Lab Sample ID:	280-14243-1	Analysis Batch:	280-61597	Instrument ID:	MSS_K
Client Matrix:	Solid	Prep Batch:	280-61172	Lab File ID:	K9875.D
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	30.8 g
Analysis Date:	04/08/2011 1811			Final Weight/Volume:	1000 uL
Prep Date:	04/07/2011 1320			Injection Volume:	0.5 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-14243-1	Analysis Batch:	280-61597	Instrument ID:	MSS_K
Client Matrix:	Solid	Prep Batch:	280-61172	Lab File ID:	K9876.D
Dilution:	4.0	Leach Batch:	N/A	Initial Weight/Volume:	30.3 g
Analysis Date:	04/08/2011 1832			Final Weight/Volume:	1000 uL
Prep Date:	04/07/2011 1320			Injection Volume:	0.5 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	102	97	52 - 120	3	30	D	D
Anthracene	102	100	57 - 120	0	30	D	D
Carbazole	100	98	54 - 120	1	30	D	D
4-Chloro-3-methylphenol	104	100	57 - 120	2	30	D	D
2-Chlorophenol	96	86	53 - 120	10	30	D	D
1,4-Dichlorobenzene	86	75	46 - 120	13	30	D	D
2,4-Dinitrotoluene	104	101	53 - 120	2	30	D	D
2-Methylnaphthalene	96	90	55 - 120	5	30	D	D
2-Methylphenol	100	92	51 - 120	7	30	D	D
4-Nitrophenol	89	86	41 - 120	2	30	D	D
N-Nitrosodi-n-propylamine	99	90	51 - 120	7	30	D	D
Pentachlorophenol	80	79	30 - 120	0	30	D	D
Phenol	100	91	54 - 120	7	30	D	D
Pyrene	114	112	50 - 120	1	38	D	D
1,2,4-Trichlorobenzene	90	80	50 - 120	11	30	D	D
2,4,6-Trichlorophenol	107	102	50 - 120	3	30	D	D

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
2-Fluorobiphenyl	101	D	94	D	50 - 120
2-Fluorophenol	94	D	84	D	53 - 120
Nitrobenzene-d5	93	D	85	D	50 - 120
Phenol-d5	99	D	92	D	52 - 120
Terphenyl-d14	114	D	110	D	55 - 120
2,4,6-Tribromophenol	100	D	92	D	51 - 120

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Method Blank - Batch: 280-61262

Method: NWTPH-Gx
Preparation: 5030B

Lab Sample ID:	MB 280-61262/3-A	Analysis Batch:	280-62622	Instrument ID:	GCV_L
Client Matrix:	Solid	Prep Batch:	280-61262	Lab File ID:	122F0801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.42 g
Analysis Date:	04/15/2011 1458	Units:	ug/Kg	Final Weight/Volume:	500 mL
Prep Date:	04/07/2011 1618			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Gasoline	576	J	310	1200

Surrogate	% Rec	Acceptance Limits
a,a,a-Trifluorotoluene	90	77 - 123

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-61262

Method: NWTPH-Gx
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-61262/1-A	Analysis Batch:	280-62315	Instrument ID:	GCV_L
Client Matrix:	Solid	Prep Batch:	280-61262	Lab File ID:	120F0801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	9.86 g
Analysis Date:	04/12/2011 1614	Units:	ug/Kg	Final Weight/Volume:	500 mL
Prep Date:	04/07/2011 1618			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 280-61262/2-A	Analysis Batch:	280-62315	Instrument ID:	GCV_L
Client Matrix:	Solid	Prep Batch:	280-61262	Lab File ID:	122F1001.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	9.89 g
Analysis Date:	04/12/2011 1729	Units:	ug/Kg	Final Weight/Volume:	500 mL
Prep Date:	04/07/2011 1618			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline	105	101	85 - 153	4	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene	90	88	77 - 123

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-61262

Method: NWTPH-Gx
Preparation: 5030B

MS Lab Sample ID:	280-14243-1	Analysis Batch:	280-62315	Instrument ID:	GCV_L
Client Matrix:	Solid	Prep Batch:	280-61262	Lab File ID:	126F1401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.47 g
Analysis Date:	04/12/2011 1958			Final Weight/Volume:	500 mL
Prep Date:	04/07/2011 1618			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-14243-1	Analysis Batch:	280-62315	Instrument ID:	GCV_L
Client Matrix:	Solid	Prep Batch:	280-61262	Lab File ID:	127F1501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	10.45 g
Analysis Date:	04/12/2011 2035			Final Weight/Volume:	500 mL
Prep Date:	04/07/2011 1618			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Gasoline	75	64	85 - 153	10	30	N	N

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene	90	81	77 - 123

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Method Blank - Batch: 280-61118

Method: 8082
Preparation: 3550C

Lab Sample ID:	MB 280-61118/1-A	Analysis Batch:	280-61879	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-61118	Lab File ID:	054F5201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	04/12/2011 0743	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	04/07/2011 1000			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Aroclor 1016	2.8	U	2.8	10
Aroclor 1221	8.0	U	8.0	16
Aroclor 1232	2.0	U	2.0	10
Aroclor 1242	4.6	U	4.6	10
Aroclor 1248	4.6	U	4.6	10
Aroclor 1254	2.6	U	2.6	10
Aroclor 1260	2.6	U	2.6	10

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	104	59 - 130
Tetrachloro-m-xylene	105	53 - 128

Lab Control Sample - Batch: 280-61118

Method: 8082
Preparation: 3550C

Lab Sample ID:	LCS 280-61118/2-A	Analysis Batch:	280-61879	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-61118	Lab File ID:	055F5301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.7 g
Analysis Date:	04/12/2011 0805	Units:	ug/Kg	Final Weight/Volume:	5000 uL
Prep Date:	04/07/2011 1000			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aroclor 1016	31.5	33.6	107	54 - 132	
Aroclor 1260	31.5	34.7	110	62 - 129	

Surrogate	% Rec	Acceptance Limits
Decachlorobiphenyl	101	59 - 130
Tetrachloro-m-xylene	97	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-61118

Method: 8082
Preparation: 3550C

MS Lab Sample ID:	280-14243-1	Analysis Batch:	280-61879	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-61118	Lab File ID:	057F5501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.3 g
Analysis Date:	04/12/2011 0848			Final Weight/Volume:	5000 uL
Prep Date:	04/07/2011 1000			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-14243-1	Analysis Batch:	280-61879	Instrument ID:	GCS_P3
Client Matrix:	Solid	Prep Batch:	280-61118	Lab File ID:	059F5701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.4 g
Analysis Date:	04/12/2011 0943			Final Weight/Volume:	5000 uL
Prep Date:	04/07/2011 1000			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Aroclor 1016	110	109	54 - 132	1	26		
Aroclor 1260	82	86	62 - 129	5	26		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Decachlorobiphenyl	65	67	59 - 130
Tetrachloro-m-xylene	107	107	53 - 128

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Method Blank - Batch: 280-61110

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	MB 280-61110/1-A	Analysis Batch:	280-62424	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-61110	Lab File ID:	038B3801.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.2 g
Analysis Date:	04/12/2011 0405	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/07/2011 1000			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
C10-C36	960	U	960	3800
C10-C28	650	U	650	3800

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

Lab Control Sample - Batch: 280-61110

Method: NWTPH-Dx
Preparation: 3550C

Lab Sample ID:	LCS 280-61110/2-A	Analysis Batch:	280-62424	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-61110	Lab File ID:	039B3901.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.3 g
Analysis Date:	04/12/2011 0432	Units:	ug/Kg	Final Weight/Volume:	1000 uL
Prep Date:	04/07/2011 1000			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C10-C36	66000	67100	102	57 - 115	
C10-C28	66000	66900	101	53 - 115	

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

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-61110

Method: NWTPH-Dx
Preparation: 3550C

MS Lab Sample ID:	280-14243-1	Analysis Batch:	280-62426	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-61110	Lab File ID:	014B1401.D
Dilution:	2.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	04/14/2011 1559			Final Weight/Volume:	1000 uL
Prep Date:	04/07/2011 1000			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	280-14243-1	Analysis Batch:	280-62424	Instrument ID:	GCS_U
Client Matrix:	Solid	Prep Batch:	280-61110	Lab File ID:	042B4201.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.1 g
Analysis Date:	04/12/2011 0556			Final Weight/Volume:	1000 uL
Prep Date:	04/07/2011 1000			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
C10-C36	227	297	57 - 115	13	23	N D	N
C10-C28	137	160	56 - 115	11	23	N D	N

Surrogate	MS % Rec		MSD % Rec	Acceptance Limits
o-Terphenyl	98	D	89	49 - 115

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Method Blank - Batch: 280-61159

Method: 8310
Preparation: 3550C

Lab Sample ID:	MB 280-61159/1-A	Analysis Batch:	280-61577	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-61159	Lab File ID:	G0411022.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.7 g
Analysis Date:	04/11/2011 2105	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	04/07/2011 1055			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Acenaphthene	9.8	U	9.8	98
Acenaphthylene	8.8	U	8.8	98
Anthracene	3.0	U	3.0	20
Benzo[a]anthracene	3.1	U	3.1	15
Benzo[a]pyrene	6.3	U	6.3	15
Benzo[b]fluoranthene	4.1	U	4.1	15
Benzo[g,h,i]perylene	7.0	U	7.0	29
Benzo[k]fluoranthene	3.9	U	3.9	15
Chrysene	4.7	U	4.7	39
Dibenzo(a,h)anthracene	11	U	11	29
Fluoranthene	13	U	13	39
Fluorene	5.2	U	5.2	29
Indeno[1,2,3-cd]pyrene	12	U	12	29
Naphthalene	12	U	12	98
Phenanthrene	12	U	12	39
Pyrene	12	U	12	39

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

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Lab Control Sample - Batch: 280-61159

Method: 8310
Preparation: 3550C

Lab Sample ID:	LCS 280-61159/2-A	Analysis Batch:	280-61577	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-61159	Lab File ID:	G0411023.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	31.2 g
Analysis Date:	04/11/2011 2135	Units:	ug/Kg	Final Weight/Volume:	4000 uL
Prep Date:	04/07/2011 1055			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	1920	1930	101	72 - 115	
Acenaphthylene	1920	1880	98	60 - 115	
Anthracene	1920	1710	89	61 - 115	
Benzo[a]anthracene	1920	2040	106	76 - 115	
Benzo[a]pyrene	1920	1690	88	69 - 115	
Benzo[b]fluoranthene	1920	1910	100	81 - 115	
Benzo[g,h,i]perylene	1920	1910	100	71 - 115	
Benzo[k]fluoranthene	1920	1860	97	85 - 115	
Chrysene	1920	1900	99	70 - 115	
Dibenzo(a,h)anthracene	1920	1940	101	79 - 115	
Fluoranthene	1920	1910	99	67 - 115	
Fluorene	1920	1850	96	72 - 115	
Indeno[1,2,3-cd]pyrene	1920	2040	106	76 - 115	
Naphthalene	1920	1910	100	77 - 115	
Phenanthrene	1920	1910	100	79 - 115	
Pyrene	1920	1910	99	77 - 115	

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

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-61159

Method: 8310
Preparation: 3550C

MS Lab Sample ID:	280-14243-1	Analysis Batch:	280-61577	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-61159	Lab File ID:	G0411025.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.3 g
Analysis Date:	04/11/2011 2236			Final Weight/Volume:	4000 uL
Prep Date:	04/07/2011 1055			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	280-14243-1	Analysis Batch:	280-61577	Instrument ID:	CHHPLC_G
Client Matrix:	Solid	Prep Batch:	280-61159	Lab File ID:	G0411026.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	30.2 g
Analysis Date:	04/11/2011 2307			Final Weight/Volume:	4000 uL
Prep Date:	04/07/2011 1055			Injection Volume:	20 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	96	102	72 - 115	6	20		
Acenaphthylene	92	98	60 - 115	7	21		
Anthracene	89	92	61 - 115	3	20		
Benzo[a]anthracene	104	110	76 - 115	7	20		
Benzo[a]pyrene	87	97	69 - 115	12	20		
Benzo[b]fluoranthene	92	98	81 - 115	7	20		
Benzo[g,h,i]perylene	88	85	71 - 115	3	20		
Benzo[k]fluoranthene	103	97	85 - 115	6	20		
Chrysene	96	102	70 - 115	7	20		
Dibenzo(a,h)anthracene	85	87	79 - 115	4	20		
Fluoranthene	95	99	67 - 115	4	20		
Fluorene	98	99	72 - 115	1	20		
Indeno[1,2,3-cd]pyrene	84	97	76 - 115	14	20		
Naphthalene	95	104	77 - 115	10	20		
Phenanthrene	95	100	79 - 115	5	20		
Pyrene	98	104	77 - 115	6	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Terphenyl-d14 (SUR)	91	99	72 - 115

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Method Blank - Batch: 280-60992

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-60992/1-A	Analysis Batch:	280-61586	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60992	Lab File ID:	25b040811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/08/2011 2000	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	1.6	U	1.6	5.0
Antimony	0.38	U	0.38	0.60
Barium	0.076	U	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	14.1	U	14.1	50.0
Chromium	0.058	U	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.22	U	0.22	1.0
Iron	3.8	U	3.8	5.0
Magnesium	3.7	U	3.7	20.0
Manganese	0.10	U	0.10	1.0
Molybdenum	0.26	U	0.26	2.0
Nickel	0.12	U	0.12	4.0
Potassium	41.0	U	41.0	300
Selenium	0.86	U	0.86	1.0
Silicon	5.7	U	5.7	10.0
Silver	0.171	B	0.16	0.20
Sodium	59.0	U	59.0	120
Vanadium	0.094	U	0.094	2.0
Zinc	0.40	U	0.40	1.0

Method Blank - Batch: 280-60992

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-60992/1-A	Analysis Batch:	280-61750	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60992	Lab File ID:	25A4041111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/11/2011 1925	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Arsenic	0.66	U	0.66	1.0
Lead	0.27	U	0.27	0.50

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Lab Control Sample - Batch: 280-60992

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-60992/2-A	Analysis Batch:	280-61586	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60992	Lab File ID:	25b040811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/08/2011 2002	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	174.0	87	82 - 116	
Antimony	50.0	47.87	96	82 - 110	
Barium	200	214.5	107	87 - 112	
Beryllium	5.00	4.67	93	84 - 114	
Boron	100	90.20	90	81 - 110	
Cadmium	10.0	10.14	101	87 - 110	
Calcium	5000	4895	98	82 - 114	
Chromium	20.0	20.09	100	84 - 114	
Cobalt	50.0	48.35	97	87 - 110	
Copper	25.0	23.19	93	88 - 110	
Iron	100	90.82	91	87 - 120	
Magnesium	5000	4681	94	90 - 110	
Manganese	50.0	50.53	101	88 - 110	
Molybdenum	100	102.2	102	86 - 110	
Nickel	50.0	48.66	97	87 - 110	
Potassium	5000	5360	107	89 - 110	
Selenium	200	197.0	98	83 - 110	
Silicon	1000	190.9	19	10 - 70	
Silver	5.00	5.24	105	87 - 114	
Sodium	5000	5365	107	90 - 112	
Vanadium	50.0	51.76	104	88 - 110	
Zinc	50.0	45.30	91	76 - 114	

Lab Control Sample - Batch: 280-60992

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-60992/2-A	Analysis Batch:	280-61750	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60992	Lab File ID:	25A4041111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	04/11/2011 1927	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	100	91.83	92	85 - 110	
Lead	50.0	45.16	90	86 - 110	

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Matrix Spike - Batch: 280-60992

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14243-1	Analysis Batch:	280-61586	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60992	Lab File ID:	25b040811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.10 g
Analysis Date:	04/08/2011 2011	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	15500		187	16440	525	50 - 200	4
Antimony	0.35	U	46.9	20.41	44	20 - 200	
Barium	93.2		187	295.3	108	52 - 159	
Beryllium	0.095	B	4.69	4.06	85	72 - 105	
Boron	5.7		93.7	82.07	82	75 - 107	
Cadmium	0.20		9.37	9.25	97	40 - 130	
Calcium	75300		4690	77250	42	43 - 165	4
Chromium	55.5		18.7	96.02	216	70 - 200	N
Cobalt	11.6		46.9	50.30	83	72 - 106	
Copper	44.0		23.4	85.27	176	37 - 187	
Iron	22500		93.7	22550	18	70 - 200	4
Magnesium	12700		4690	16530	81	64 - 145	
Manganese	387		46.9	441.5	117	40 - 200	4
Molybdenum	0.66	B	93.7	82.63	87	75 - 103	
Nickel	56.8		46.9	98.23	88	61 - 126	
Potassium	1060		4690	6032	106	56 - 172	
Selenium	0.79	U	187	173.1	92	76 - 104	
Silicon	377		937	355.5	-2	20 - 200	N
Silver	0.66		4.69	5.43	102	75 - 141	
Sodium	414		4690	5386	106	78 - 111	
Vanadium	85.6		46.9	126.6	88	50 - 169	
Zinc	340		46.9	383.7	94	70 - 200	4

Matrix Spike - Batch: 280-60992

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14243-1	Analysis Batch:	280-61750	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60992	Lab File ID:	25A4041111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.10 g
Analysis Date:	04/11/2011 1936	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	4.4	93.7	87.80	89	76 - 111	
Lead	33.2	46.9	69.27	77	70 - 200	

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Duplicate - Batch: 280-60992

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14243-1	Analysis Batch:	280-61586	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60992	Lab File ID:	25b040811.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.11 g
Analysis Date:	04/08/2011 2009	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	15500		15680	1	40	
Antimony	0.35	U	0.35	NC	40	U
Barium	93.2		109.7	16	30	
Beryllium	0.095	B	0.0910	4	30	B
Boron	5.7		4.85	16	30	
Cadmium	0.20		0.215	6	30	
Calcium	75300		74120	2	30	
Chromium	55.5		67.50	19	40	
Cobalt	11.6		11.97	3	30	
Copper	44.0		84.07	63	30	M
Iron	22500		23070	2	40	
Magnesium	12700		13180	3	30	
Manganese	387		391.6	1	40	
Molybdenum	0.66	B	0.596	10	30	B
Nickel	56.8		59.09	4	30	
Potassium	1060		992.7	6	40	
Selenium	0.79	U	0.80	NC	30	U
Silicon	377		354.9	6	40	
Silver	0.66		0.661	0.8	30	
Sodium	414		429.3	4	30	
Vanadium	85.6		85.98	0.5	30	
Zinc	340		237.1	36	40	

Duplicate - Batch: 280-60992

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14243-1	Analysis Batch:	280-61750	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-60992	Lab File ID:	25A4041111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.11 g
Analysis Date:	04/11/2011 1934	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/08/2011 0800				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Arsenic	4.4	4.23	5	30	
Lead	33.2	34.40	4	40	

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Method Blank - Batch: 280-61090

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-61090/1-A	Analysis Batch:	280-61555	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-61090	Lab File ID:	110408AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/08/2011 2101	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/08/2011 1110				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-61090

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-61090/2-A	Analysis Batch:	280-61555	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-61090	Lab File ID:	110408AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/08/2011 2103	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/08/2011 1110				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.449	108	87 - 111	

Matrix Spike - Batch: 280-61090

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-14243-1	Analysis Batch:	280-61555	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-61090	Lab File ID:	110408AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.62 g
Analysis Date:	04/08/2011 2110	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/08/2011 1110				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.0083	B	0.416	0.435	103	87 - 111	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Duplicate - Batch: 280-61090

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-14243-1	Analysis Batch:	280-61555	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-61090	Lab File ID:	110408AD.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	04/08/2011 2108	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	04/08/2011 1110				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.0083	B	0.00902	8	20	B

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Method Blank - Batch: 280-62852

Method: 353.2
Preparation: N/A

Lab Sample ID:	MB 280-62807/1-A	Analysis Batch:	280-62852	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0418BNXN
Dilution:	1.0	Leach Batch:	280-62807	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/18/2011 1612	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/18/2011 1330				

Analyte	Result	Qual	MDL	RL
Nitrate Nitrite as N-Soluble	0.36	U	0.36	0.75

Method Reporting Limit Check - Batch: 280-62852

Method: 353.2
Preparation: N/A

Lab Sample ID:	MRL 280-62852/17	Analysis Batch:	280-62852	Instrument ID:	WC_Alp 2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0418BNXN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	04/18/2011 1330	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	0.100	0.0845	84	50 - 150	B

Lab Control Sample - Batch: 280-62852

Method: 353.2
Preparation: N/A

Lab Sample ID:	LCS 280-62807/2-A	Analysis Batch:	280-62852	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0418BNXN
Dilution:	1.0	Leach Batch:	280-62807	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/18/2011 1613	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/18/2011 1330				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	49.5	47.79	97	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Matrix Spike - Batch: 280-62852

Method: 353.2
Preparation: N/A

Lab Sample ID:	280-14243-1	Analysis Batch:	280-62852	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0418BNXN
Dilution:	1.0	Leach Batch:	280-62807	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/18/2011 1618	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/18/2011 1330				

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N-Soluble	2.0	40.4	43.37	102	90 - 110	

Duplicate - Batch: 280-62852

Method: 353.2
Preparation: N/A

Lab Sample ID:	280-14243-1	Analysis Batch:	280-62852	Instrument ID:	WC_Alp 2
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	C:\FLOW_4\0418BNXN
Dilution:	1.0	Leach Batch:	280-62807	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/18/2011 1616	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/18/2011 1330				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Nitrate Nitrite as N-Soluble	2.0	2.00	0.2	10	

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Method Blank - Batch: 280-61486

Method: 9056M
Preparation: N/A

Lab Sample ID:	MB 280-61225/2-A	Analysis Batch:	280-61486	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	180.TXT
Dilution:	1.0	Leach Batch:	280-61225	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/08/2011 0457	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/07/2011 1457				

Analyte	Result	Qual	MDL	RL
Nitrate as N-Soluble	0.31	U	0.31	2.5
Nitrite as N-Soluble	0.34	U	0.34	2.5
Orthophosphate as P-Soluble	1.2	U	1.2	5.0

Method Reporting Limit Check - Batch: 280-61486

Method: 9056M
Preparation: N/A

Lab Sample ID:	MRL 280-61486/3	Analysis Batch:	280-61486	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/07/2011 0949	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	0.200	0.198	99	50 - 150	B
Nitrite as N-Soluble	0.200	0.194	97	50 - 150	B
Orthophosphate as P-Soluble	0.200	0.203	102	50 - 150	B

Lab Control Sample - Batch: 280-61486

Method: 9056M
Preparation: N/A

Lab Sample ID:	LCS 280-61225/1-A	Analysis Batch:	280-61486	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	179.TXT
Dilution:	1.0	Leach Batch:	280-61225	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/08/2011 0441	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/07/2011 1457				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	50.0	50.40	101	90 - 110	
Nitrite as N-Soluble	50.0	50.34	101	90 - 110	
Orthophosphate as P-Soluble	50.0	48.28	97	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Matrix Spike - Batch: 280-61486

Method: 9056M
Preparation: N/A

Lab Sample ID:	280-14243-1	Analysis Batch:	280-61486	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	183.TXT
Dilution:	1.0	Leach Batch:	280-61225	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/08/2011 0548	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/07/2011 1457				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N-Soluble	3.2		50.5	54.70	102	80 - 120	
Nitrite as N-Soluble	0.35	U	50.5	52.06	103	80 - 120	
Orthophosphate as P-Soluble	1.3	U	50.5	41.75	83	80 - 120	

Duplicate - Batch: 280-61486

Method: 9056M
Preparation: N/A

Lab Sample ID:	280-14243-1	Analysis Batch:	280-61486	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	182.TXT
Dilution:	1.0	Leach Batch:	280-61225	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/08/2011 0531	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/07/2011 1457				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Nitrate as N-Soluble	3.2		3.11	2	15	
Nitrite as N-Soluble	0.35	U	0.34	NC	15	U
Orthophosphate as P-Soluble	1.3	U	1.3	NC	15	U

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Method Blank - Batch: 280-61487

Method: 9056M
Preparation: N/A

Lab Sample ID:	MB 280-61225/2-A	Analysis Batch:	280-61487	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	180.TXT
Dilution:	1.0	Leach Batch:	280-61225	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/08/2011 0457	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/07/2011 1457				

Analyte	Result	Qual	MDL	RL
Chloride-Soluble	2.0	U	2.0	5.0
Bromide-Soluble	0.39	U	0.39	2.0
Sulfate-Soluble	1.7	U	1.7	5.0
Fluoride-Soluble	0.82	U	0.82	5.0

Method Reporting Limit Check - Batch: 280-61487

Method: 9056M
Preparation: N/A

Lab Sample ID:	MRL 280-61487/3	Analysis Batch:	280-61487	Instrument ID:	WC_IC8
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/07/2011 0949	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Soluble	1.00	1.00	100	50 - 150	B
Bromide-Soluble	0.200	0.179	90	50 - 150	B
Sulfate-Soluble	1.00	0.934	93	50 - 150	B
Fluoride-Soluble	0.200	0.201	100	50 - 150	B

Lab Control Sample - Batch: 280-61487

Method: 9056M
Preparation: N/A

Lab Sample ID:	LCS 280-61225/1-A	Analysis Batch:	280-61487	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	179.TXT
Dilution:	1.0	Leach Batch:	280-61225	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/08/2011 0441	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/07/2011 1457				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Soluble	250	251.8	101	90 - 110	
Bromide-Soluble	50.0	50.16	100	90 - 110	
Sulfate-Soluble	250	249.3	100	90 - 110	
Fluoride-Soluble	50.0	51.07	102	90 - 110	

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Matrix Spike - Batch: 280-61487

Method: 9056M
Preparation: N/A

Lab Sample ID:	280-14243-1	Analysis Batch:	280-61487	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	183.TXT
Dilution:	1.0	Leach Batch:	280-61225	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/08/2011 0548	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/07/2011 1457				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Chloride-Soluble	2.0	U	253	259.1	103	80 - 120	
Bromide-Soluble	0.40	U	50.5	50.64	100	80 - 120	
Sulfate-Soluble	26.6		253	296.6	107	80 - 120	
Fluoride-Soluble	0.85	U	50.5	42.29	84	80 - 120	

Duplicate - Batch: 280-61487

Method: 9056M
Preparation: N/A

Lab Sample ID:	280-14243-1	Analysis Batch:	280-61487	Instrument ID:	WC_IC8
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	182.TXT
Dilution:	1.0	Leach Batch:	280-61225	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/08/2011 0531	Units:	mg/Kg	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/07/2011 1457				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Chloride-Soluble	2.0	U	2.0	NC	15	U
Bromide-Soluble	0.40	U	0.39	NC	15	U
Sulfate-Soluble	26.6		26.21	2	15	
Fluoride-Soluble	0.85	U	0.83	NC	15	U

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-14243-1
Sdg Number: J01080

Duplicate - Batch: 280-60969

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-14243-1	Analysis Batch:	280-60969	Instrument ID:	No Equipment
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/06/2011 1403	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	3.0	2.8	6	20	

5.8

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-211-030	Page 1 of 1

Collector: OJEDA, AJ	Company Contact: Jen Russell	Telephone No.: (509) 380-8093	Project Coordinator: KESSNER, JH
Price Code: 8C	Data Turnaround: 15 Days		
Project Designation: 100-IU-2 & 100-IU-6 Miscellaneous Restoration Sites Near 1	Sampling Location: 100 IU 2 600-311		SAF No.: RC-211
Ice Chest No.: WCH-08-023	Field Logbook No.: EL-1651	COA: 0IU22DY000	Method of Shipment: FedEx
Shipped To: TestAmerica Incorporated, ~~Richland~~ Denver JR 3/31/11	Offsite Property No.: NA		Bill of Lading/Air Bill No.: 7969 5166 3984

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4 degrees C

Preservation	Cool 4C	None	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C		
Type of Container	G/P	G/P	G/P	G	aGs*	aG	aG	aG		
No. of Container(s)	1	1	1	1	1	1	1	1		
Volume	60mL	120mL	60mL	60mL	JR 3/31/11 ~~40mL~~ 60mL	60mL	60mL	60mL		
SAMPLE ANALYSIS	See item (1) in Special Instructions.	See item (2) in Special Instructions.	See item (3) in Special Instructions.	TPH-Diesel Range - WTPH-D +	TPH-Gasoline Range - WTPH-G	Semi-VOA - 8270A (TCL)	PAHs - 8310	PCBs - 8082		

Sample No.	Matrix *	Sample Date	Sample Time										
SJ1H136	SOIL	4/4/11	0830	X	X	X	X	X	X	X	X		

CHAIN OF POSSESSION — Sign/Print Names

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
AJ Ojeda	4/4/11 @ 1503	Jen Russell Jen Russell	4/4/11 1503
Jen Russell Jen Russell	4/4/11 1600	J. E. Berg	1600 4-4-11
J. E. Berg	1030 4-5-11	FED EX	
		~~Received By/Stored In~~	4/06/11 8:00
		~~Received By/Stored In~~	
		Received By/Stored In	

SPECIAL INSTRUCTIONS

Please leach & hold TCLP Metals, per Joan Kessner

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

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

(3) IC Anions - 9056 Modified {Bromide, Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorous in phosphate, Sulfate}; NO2/NO3 - 353.2

J01080

REVIEWED BY JRE DATE 4-5-11

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

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

WCH-EE-011

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

L, 7/C

Project 28002142 -601079 -5.1.2

Analytical Due:

Report Due: 4/21/11 (Rush 11d TAT)

Sample Check-in List

Date/Time Received: 4/6/11 GM Screen Result 13 microR/hr

Client: Washington Closure Hanford SDG #: J01080 NA[ ] SAF #: RC-211 NA [ ]

Job Number: 14243 Chain of Custody # RC-211-030

Shipping Container ID: WCH-08-023 Air Bill # 7969 5166 3984

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature °C: 5.8° NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [✓] Dry [ ]
6. Number of samples in shipping container: 1
7. Sample holding times exceeded? NA [ ] Yes [ ] No [✓]
8. Samples have:
   - ✓ Tape
   - ✓ Custody Seals
   - ✓ Hazard Lables
   - ✓ Appropriate Sample Lables
9. Samples are:
   - ✓ In Good Condition
   - Broken
   - Leaking
   - Have Air Bubbles (Only for samples requiring no head space.)
10. Sample pH taken? NA [✓] pH<2 [ ] pH>2 [ ] pH>9 [ ] Amount HNO_3 Added
11. Sample Location, Sample Collector Listed? *
    *For documentation only. No corrective action needed.
12. Were any anomalies identified in sample receipt? Yes [ ] No [✓]
13. Description of anomalies (include sample numbers):

Sample Custodian: [signature] Date: 4/6/11

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on _____ by _____ Person Contacted _____

[ ] No action necessary; process as is.

Project Manager [signature] Date 4/7/11

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

RICHLAND, WA 99354

FedEx. Express

J11151102250225

Ship Date: 05APR11
ActWgt: 72.0 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

WED - 06 APR A1
PRIORITY OVERNIGHT

TRK# 0201 7969 5166 3984

XH WHHA

80002
CO-US
DEN

5CDG3/26A8/7EFB

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