1212403

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 2/22/12
INITIAL/DATE

COMMENTS:

SDG J01416 SAF-RC-211

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location: 600-300 Area (12A)(12B)(12C)

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THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 280-25392-1

SDG Number: J01416

Job Description: SAF# RC-211

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

Attention: Joan H Kessner

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Approved for release.
Kae E Yoder
Project Manager II
2/20/2012 3:04 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
02/20/2012

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

The Lab Certification ID# is E87667.

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

TestAmerica Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac

Table of Contents

Cover Title Page 1

Report Narrative 3

Data Qualifiers 5

Method Summary 6

Method / Analyst Summary 7

Sample Summary 8

Sample Results 9

Sample Datasheets 10

QC Results 19

Qc Association Summary 20

Qc Reports 23

Client Chain of Custody 34

Sample Receipt Checklist 35

CASE NARRATIVE

Client: Washington Closure Hanford

Project: WASHINGTON CLOSURE HANFORD

Report Number: 280-25392-1

SDG #: J01416
SAF#: RC-211

Date SDG Closed: February 8, 2012
Data Deliverable: 15 Day / Summary

CLIENT ID	LAB ID	ANALYSES REQUESTED	ANALYSES PERFORMED
J1N3L2	280-25392-1	6010/7471/1311-6010-7470	6010B/7471A/1311-6010B-7470A
J1N3L3	280-25392-2	6010/7471/1311-6010-7470	6010B/7471A/1311-6010B-7470A
J1N3L4	280-25392-3	6010/7471/1311-6010-7470	6010B/7471A/1311-6010B-7470A

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 2/8/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was -0.5 C.

TOTAL METALS - SW846 6010B/7471A
Serial dilution of a digestate in batch 280-106830 indicates that physical and chemical interferences are present for Cobalt. Results have been flagged with an "X".

Low levels of Chromium are present in the method blank associated with batch 280-106830. Because the concentration in the method blank is not present at a level greater than half the reporting limit, corrective action is deemed unnecessary.

It can be noted that the sample amount was greater than four times the spike amount for Aluminum, Copper, Iron and Manganese in the Matrix Spike performed on sample J1N3L2; therefore, control limits are not applicable.

The Matrix Spike performed on sample J1N3L2 exhibited percent recoveries outside the control limits for Silicon and Zinc, and the associated sample results have 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 duplicate analysis of sample J1N3L2 exhibited RPD data outside the control limits for Arsenic, Chromium, Copper, Lead and Zinc, and the associated sample results have been flagged "M". There is no indication that the analytical system was operating out of control, and method accuracy has been verified by the acceptable LCS analysis data; therefore, corrective action is deemed unnecessary.

No other anomalies were encountered.

TCLP METALS - SW846 1311/6010B/7470A

Low levels of Barium are present in the method blank associated with batch 280-107029. Because the concentration in the method blank is not present at a level greater than half the reporting limit, corrective action is deemed unnecessary.

No other anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

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.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
TCLP Metals (ICP)	TAL DEN	SW846 6010B	
TCLP Extraction	TAL DEN		SW846 1311
Preparation, Total Metals	TAL DEN		SW846 3010A
TCLP Mercury	TAL DEN	SW846 7470A	
TCLP Extraction	TAL DEN		SW846 1311
Preparation, Mercury	TAL DEN		SW846 7470A
Mercury (CVAA)	TAL DEN	SW846 7471A	
Preparation, Mercury	TAL DEN		SW846 7471A
ASTM D-2216	TAL DEN	ASTM D-2216	

Lab References:

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

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: 280-25392-1
Sdg Number: J01416

Method	Analyst	Analyst ID
SW846 6010B	Bowen, Heidi E	HEB
SW846 6010B	Harre, John K	JKH
SW846 7470A	Rawlings, Brendon L	BLR
SW846 7471A	Rawlings, Brendon L	BLR
ASTM D-2216	Berry III, Paul B	PBB

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-25392-1	J1N3L2	Solid	02/06/2012 0940	02/08/2012 0930
280-25392-2	J1N3L3	Solid	02/06/2012 1005	02/08/2012 0930
280-25392-3	J1N3L4	Solid	02/06/2012 1030	02/08/2012 0930

SAMPLE RESULTS

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

Client Sample ID: **J1N3L2**

Lab Sample ID: 280-25392-1
Client Matrix: Solid
% Moisture: 6.2

Date Sampled: 02/06/2012 0940
Date Received: 02/08/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-108342	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-106830	Lab File ID:	25A3021712.asc
Dilution:	1.0			Initial Weight/Volume:	1.11 g
Analysis Date:	02/17/2012 2233			Final Weight/Volume:	100 mL
Prep Date:	02/17/2012 1300				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7500		1.5	4.8
Antimony		1.8		0.37	0.58
Arsenic		3.5	M	0.63	0.96
Barium		61.6		0.073	0.48
Beryllium		0.37		0.032	0.19
Boron		1.5	B	0.94	1.9
Cadmium		0.12	B	0.039	0.19
Calcium		4340		13.5	48.0
Chromium		15.0	M	0.056	0.19
Cobalt		5.4	X	0.096	0.96
Copper		194	M	0.21	0.96
Iron		19900		3.7	4.8
Lead		25.3	M	0.26	0.48
Magnesium		3740		3.6	19.2
Manganese		260		0.096	0.96
Molybdenum		0.67	B	0.25	1.9
Nickel		15.7		0.12	3.8
Potassium		1470		39.4	288
Selenium		0.83	U	0.83	0.96
Silicon		436	N	5.4	9.6
Silver		0.15	U	0.15	0.19
Sodium		215		56.7	115
Vanadium		31.6		0.090	1.9
Zinc		54.3	N M	0.38	0.96

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-107520	Instrument ID:	MT_026
Prep Method:	3010A	Prep Batch:	280-107029	Lab File ID:	26b021312.asc
Dilution:	1.0	Leach Batch:	280-106803	Initial Weight/Volume:	10 mL
Analysis Date:	02/13/2012 1335			Final Weight/Volume:	50 mL
Prep Date:	02/13/2012 0800				
Leach Date:	02/08/2012 2001				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.022	U	0.022	0.50
Barium		0.38	B	0.0020	1.0
Cadmium		0.0020	U	0.0020	0.10
Chromium		0.0030	U	0.0030	0.50
Lead		0.077	B	0.013	0.50
Selenium		0.024	U	0.024	0.10
Silver		0.0040	U	0.0040	0.50

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

Client Sample ID: **J1N3L2**

Lab Sample ID: 280-25392-1
Client Matrix: Solid

Date Sampled: 02/06/2012 0940
Date Received: 02/08/2012 0930

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-107505	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-107338	Lab File ID:	120213ab2.txt
Dilution:	1.0	Leach Batch:	280-106803	Initial Weight/Volume:	30 mL
Analysis Date:	02/13/2012 2053			Final Weight/Volume:	30 mL
Prep Date:	02/13/2012 0856				
Leach Date:	02/08/2012 2001				

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

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-107326	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-106898	Lab File ID:	120210ab.txt
Dilution:	1.0			Initial Weight/Volume:	0.66 g
Analysis Date:	02/10/2012 1940			Final Weight/Volume:	50 mL
Prep Date:	02/10/2012 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0054	U	0.0054	0.016

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

Client Sample ID: **J1N3L3**

Lab Sample ID: 280-25392-2
Client Matrix: Solid
% Moisture: 4.1

Date Sampled: 02/06/2012 1005
Date Received: 02/08/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-108342	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-106830	Lab File ID:	25A3021712.asc
Dilution:	1.0			Initial Weight/Volume:	1.00 g
Analysis Date:	02/17/2012 2242			Final Weight/Volume:	100 mL
Prep Date:	02/17/2012 1300				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		6960		1.6	5.2
Antimony		1.9		0.40	0.63
Arsenic		3.0		0.69	1.0
Barium		52.7		0.079	0.52
Beryllium		0.38		0.034	0.21
Boron		1.1	B	1.0	2.1
Cadmium		0.073	B	0.043	0.21
Calcium		3210		14.7	52.1
Chromium		11.7		0.060	0.21
Cobalt		5.5	X	0.10	1.0
Copper		47.0		0.23	1.0
Iron		16100		4.0	5.2
Lead		4.7		0.28	0.52
Magnesium		4200		3.9	20.8
Manganese		233		0.10	1.0
Molybdenum		0.27	U	0.27	2.1
Nickel		11.8		0.13	4.2
Potassium		1430		42.7	313
Selenium		0.90	U	0.90	1.0
Silicon		353		5.9	10.4
Silver		0.17	U	0.17	0.21
Sodium		166		61.5	125
Vanadium		34.5		0.098	2.1
Zinc		53.7		0.41	1.0

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-107520	Instrument ID:	MT_026
Prep Method:	3010A	Prep Batch:	280-107029	Lab File ID:	26b021312.asc
Dilution:	1.0	Leach Batch:	280-106803	Initial Weight/Volume:	10 mL
Analysis Date:	02/13/2012 1338			Final Weight/Volume:	50 mL
Prep Date:	02/13/2012 0800				
Leach Date:	02/08/2012 2001				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.022	U	0.022	0.50
Barium		0.20	B	0.0020	1.0
Cadmium		0.0020	U	0.0020	0.10
Chromium		0.0030	U	0.0030	0.50
Lead		0.013	U	0.013	0.50
Selenium		0.024	U	0.024	0.10
Silver		0.0040	U	0.0040	0.50

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

Client Sample ID: **J1N3L3**

Lab Sample ID: 280-25392-2
Client Matrix: Solid

Date Sampled: 02/06/2012 1005
Date Received: 02/08/2012 0930

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-107505	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-107338	Lab File ID:	120213ab2.txt
Dilution:	1.0	Leach Batch:	280-106803	Initial Weight/Volume:	30 mL
Analysis Date:	02/13/2012 2056			Final Weight/Volume:	30 mL
Prep Date:	02/13/2012 0856				
Leach Date:	02/08/2012 2001				

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

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-107326	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-106898	Lab File ID:	120210ab.txt
Dilution:	1.0			Initial Weight/Volume:	0.50 g
Analysis Date:	02/10/2012 1947			Final Weight/Volume:	50 mL
Prep Date:	02/10/2012 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0089	B	0.0069	0.021

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

Client Sample ID: **J1N3L4**

Lab Sample ID: 280-25392-3
Client Matrix: Solid
% Moisture: 4.2

Date Sampled: 02/06/2012 1030
Date Received: 02/08/2012 0930

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-108342	Instrument ID:	MT_025
Prep Method:	3050B	Prep Batch:	280-106830	Lab File ID:	25A3021712.asc
Dilution:	1.0			Initial Weight/Volume:	1.05 g
Analysis Date:	02/17/2012 2244			Final Weight/Volume:	100 mL
Prep Date:	02/17/2012 1300				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		7930		1.5	5.0
Antimony		0.38	U	0.38	0.60
Arsenic		10.4		0.66	0.99
Barium		69.8		0.076	0.50
Beryllium		0.44		0.033	0.20
Boron		1.1	B	0.97	2.0
Cadmium		0.041	U	0.041	0.20
Calcium		6610		14.0	49.7
Chromium		13.1		0.058	0.20
Cobalt		6.1	X	0.099	0.99
Copper		13.4		0.22	0.99
Iron		17400		3.8	5.0
Lead		7.9		0.27	0.50
Magnesium		4900		3.7	19.9
Manganese		278		0.099	0.99
Molybdenum		0.26	U	0.26	2.0
Nickel		12.1		0.12	4.0
Potassium		1380		40.8	298
Selenium		0.85	U	0.85	0.99
Silicon		464		5.6	9.9
Silver		0.16	U	0.16	0.20
Sodium		190		58.7	119
Vanadium		36.5		0.093	2.0
Zinc		37.7		0.40	0.99

6010B TCLP Metals (ICP)-TCLP

Analysis Method:	6010B	Analysis Batch:	280-107520	Instrument ID:	MT_026
Prep Method:	3010A	Prep Batch:	280-107029	Lab File ID:	26b021312.asc
Dilution:	1.0	Leach Batch:	280-106803	Initial Weight/Volume:	10 mL
Analysis Date:	02/13/2012 1340			Final Weight/Volume:	50 mL
Prep Date:	02/13/2012 0800				
Leach Date:	02/08/2012 2001				

Analyte	DryWt Corrected: N	Result (mg/L)	Qualifier	MDL	RL
Arsenic		0.089	B	0.022	0.50
Barium		0.37	B	0.0020	1.0
Cadmium		0.0020	U	0.0020	0.10
Chromium		0.0030	U	0.0030	0.50
Lead		0.013	U	0.013	0.50
Selenium		0.024	U	0.024	0.10
Silver		0.0040	U	0.0040	0.50

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

Client Sample ID: **J1N3L4**

Lab Sample ID: 280-25392-3
Client Matrix: Solid

Date Sampled: 02/06/2012 1030
Date Received: 02/08/2012 0930

7470A TCLP Mercury-TCLP

Analysis Method:	7470A	Analysis Batch:	280-107505	Instrument ID:	MT_033
Prep Method:	7470A	Prep Batch:	280-107338	Lab File ID:	120213ab2.txt
Dilution:	1.0	Leach Batch:	280-106803	Initial Weight/Volume:	30 mL
Analysis Date:	02/13/2012 2058			Final Weight/Volume:	30 mL
Prep Date:	02/13/2012 0856				
Leach Date:	02/08/2012 2001				

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

7471A Mercury (CVAA)

Analysis Method:	7471A	Analysis Batch:	280-107326	Instrument ID:	MT_033
Prep Method:	7471A	Prep Batch:	280-106898	Lab File ID:	120210ab.txt
Dilution:	1.0			Initial Weight/Volume:	0.53 g
Analysis Date:	02/10/2012 1950			Final Weight/Volume:	50 mL
Prep Date:	02/10/2012 1200				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0065	U	0.0065	0.020

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

General Chemistry

Client Sample ID: **J1N3L2**

Lab Sample ID: 280-25392-1
Client Matrix: Solid

Date Sampled: 02/06/2012 0940
Date Received: 02/08/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	6.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-106888 Analysis Date: 02/09/2012 1015 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

General Chemistry

Client Sample ID: **J1N3L3**

Lab Sample ID: 280-25392-2
Client Matrix: Solid

Date Sampled: 02/06/2012 1005
Date Received: 02/08/2012 0930

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

Analysis Batch: 280-106888 Analysis Date: 02/09/2012 1015 DryWt Corrected: N

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

General Chemistry

Client Sample ID: **J1N3L4**

Lab Sample ID: 280-25392-3
Client Matrix: Solid

Date Sampled: 02/06/2012 1030
Date Received: 02/08/2012 0930

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	4.2		%	0.10	0.10	1.0	D-2216

Analysis Batch: 280-106888 Analysis Date: 02/09/2012 1015 DryWt Corrected: N

QUALITY CONTROL RESULTS

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-106803					
LCS 280-106803/2-B	Lab Control Sample	P	Solid	1311	
LCS 280-106803/2-C	Lab Control Sample	P	Solid	1311	
LB 280-106803/1-B	TCLP SPLPE Leachate Blank	P	Solid	1311	
LB 280-106803/1-C	TCLP SPLPE Leachate Blank	P	Solid	1311	
280-25392-1	J1N3L2	P	Solid	1311	
280-25392-2	J1N3L3	P	Solid	1311	
280-25392-3	J1N3L4	P	Solid	1311	
280-25392-3DU	Duplicate	P	Solid	1311	
280-25392-3MS	Matrix Spike	P	Solid	1311	
Prep Batch: 280-106830					
LCS 280-106830/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-106830/1-A	Method Blank	T	Solid	3050B	
280-25392-1	J1N3L2	T	Solid	3050B	
280-25392-1DU	Duplicate	T	Solid	3050B	
280-25392-1MS	Matrix Spike	T	Solid	3050B	
280-25392-2	J1N3L3	T	Solid	3050B	
280-25392-3	J1N3L4	T	Solid	3050B	
Prep Batch: 280-106898					
LCS 280-106898/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-106898/1-A	Method Blank	T	Solid	7471A	
280-25392-1	J1N3L2	T	Solid	7471A	
280-25392-1DU	Duplicate	T	Solid	7471A	
280-25392-1MS	Matrix Spike	T	Solid	7471A	
280-25392-2	J1N3L3	T	Solid	7471A	
280-25392-3	J1N3L4	T	Solid	7471A	
Prep Batch: 280-107029					
LCS 280-106803/2-B	Lab Control Sample	P	Solid	3010A	280-106803
LB 280-106803/1-B	TCLP SPLPE Leachate Blank	P	Solid	3010A	280-106803
280-25392-1	J1N3L2	P	Solid	3010A	280-106803
280-25392-2	J1N3L3	P	Solid	3010A	280-106803
280-25392-3	J1N3L4	P	Solid	3010A	280-106803
280-25392-3DU	Duplicate	P	Solid	3010A	280-106803
280-25392-3MS	Matrix Spike	P	Solid	3010A	280-106803
Analysis Batch:280-107326					
LCS 280-106898/2-A	Lab Control Sample	T	Solid	7471A	280-106898
MB 280-106898/1-A	Method Blank	T	Solid	7471A	280-106898
280-25392-1	J1N3L2	T	Solid	7471A	280-106898
280-25392-1DU	Duplicate	T	Solid	7471A	280-106898
280-25392-1MS	Matrix Spike	T	Solid	7471A	280-106898
280-25392-2	J1N3L3	T	Solid	7471A	280-106898
280-25392-3	J1N3L4	T	Solid	7471A	280-106898

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-107338					
LCS 280-106803/2-C	Lab Control Sample	P	Solid	7470A	280-106803
LB 280-106803/1-C	TCLP SPLPE Leachate Blank	P	Solid	7470A	280-106803
280-25392-1	J1N3L2	P	Solid	7470A	280-106803
280-25392-2	J1N3L3	P	Solid	7470A	280-106803
280-25392-3	J1N3L4	P	Solid	7470A	280-106803
280-25392-3DU	Duplicate	P	Solid	7470A	280-106803
280-25392-3MS	Matrix Spike	P	Solid	7470A	280-106803
Analysis Batch:280-107505					
LCS 280-106803/2-C	Lab Control Sample	P	Solid	7470A	280-107338
LB 280-106803/1-C	TCLP SPLPE Leachate Blank	P	Solid	7470A	280-107338
280-25392-1	J1N3L2	P	Solid	7470A	280-107338
280-25392-2	J1N3L3	P	Solid	7470A	280-107338
280-25392-3	J1N3L4	P	Solid	7470A	280-107338
280-25392-3DU	Duplicate	P	Solid	7470A	280-107338
280-25392-3MS	Matrix Spike	P	Solid	7470A	280-107338
Analysis Batch:280-107520					
LCS 280-106803/2-B	Lab Control Sample	P	Solid	6010B	280-107029
LB 280-106803/1-B	TCLP SPLPE Leachate Blank	P	Solid	6010B	280-107029
280-25392-1	J1N3L2	P	Solid	6010B	280-107029
280-25392-2	J1N3L3	P	Solid	6010B	280-107029
280-25392-3	J1N3L4	P	Solid	6010B	280-107029
280-25392-3DU	Duplicate	P	Solid	6010B	280-107029
280-25392-3MS	Matrix Spike	P	Solid	6010B	280-107029
Analysis Batch:280-108342					
LCS 280-106830/2-A	Lab Control Sample	T	Solid	6010B	280-106830
MB 280-106830/1-A	Method Blank	T	Solid	6010B	280-106830
280-25392-1	J1N3L2	T	Solid	6010B	280-106830
280-25392-1DU	Duplicate	T	Solid	6010B	280-106830
280-25392-1MS	Matrix Spike	T	Solid	6010B	280-106830
280-25392-2	J1N3L3	T	Solid	6010B	280-106830
280-25392-3	J1N3L4	T	Solid	6010B	280-106830

Report Basis
P = TCLP
T = Total

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-106888					
280-25392-1	J1N3L2	T	Solid	D-2216	
280-25392-1DU	Duplicate	T	Solid	D-2216	
280-25392-2	J1N3L3	T	Solid	D-2216	
280-25392-3	J1N3L4	T	Solid	D-2216	

Report Basis
T = Total

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

Method Blank - Batch: 280-106830

Method: 6010B
Preparation: 3050B

Lab Sample ID:	MB 280-106830/1-A	Analysis Batch:	280-108342	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-106830	Lab File ID:	25A3021712.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	02/17/2012 2228	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	02/17/2012 1300				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Aluminum	1.6	U	1.6	5.0
Antimony	0.38	U	0.38	0.60
Arsenic	0.66	U	0.66	1.0
Barium	0.076	U	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	14.1	U	14.1	50.0
Chromium	0.0750	B	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.22	U	0.22	1.0
Iron	3.8	U	3.8	5.0
Lead	0.27	U	0.27	0.50
Magnesium	3.7	U	3.7	20.0
Manganese	0.10	U	0.10	1.0
Molybdenum	0.26	U	0.26	2.0
Nickel	0.12	U	0.12	4.0
Potassium	41.0	U	41.0	300
Selenium	0.86	U	0.86	1.0
Silicon	5.7	U	5.7	10.0
Silver	0.16	U	0.16	0.20
Sodium	59.0	U	59.0	120
Vanadium	0.094	U	0.094	2.0
Zinc	0.40	U	0.40	1.0

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

Lab Control Sample - Batch: 280-106830

Method: 6010B
Preparation: 3050B

Lab Sample ID:	LCS 280-106830/2-A	Analysis Batch:	280-108342	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-106830	Lab File ID:	25A3021712.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 g
Analysis Date:	02/17/2012 2231	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	02/17/2012 1300				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	191.8	96	82 - 116	
Antimony	50.0	48.15	96	82 - 110	
Arsenic	100	100.1	100	85 - 110	
Barium	200	190.9	95	87 - 112	
Beryllium	5.00	5.01	100	84 - 114	
Boron	100	98.20	98	81 - 110	
Cadmium	10.0	9.33	93	87 - 110	
Calcium	5000	4822	96	82 - 114	
Chromium	20.0	19.19	96	84 - 114	
Cobalt	50.0	47.84	96	87 - 110	
Copper	25.0	24.39	98	88 - 110	
Iron	100	96.06	96	87 - 120	
Lead	50.0	47.97	96	86 - 110	
Magnesium	5000	4820	96	90 - 110	
Manganese	50.0	48.11	96	88 - 110	
Molybdenum	100	95.88	96	86 - 110	
Nickel	50.0	48.45	97	87 - 110	
Potassium	5000	4865	97	89 - 110	
Selenium	200	185.6	93	83 - 110	
Silicon	1000	383.3	38	10 - 70	
Silver	5.00	4.84	97	87 - 114	
Sodium	5000	4977	100	90 - 112	
Vanadium	50.0	48.46	97	88 - 110	
Zinc	50.0	48.86	98	76 - 114	

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

Matrix Spike - Batch: 280-106830

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-25392-1	Analysis Batch:	280-108342	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-106830	Lab File ID:	25A3021712.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.09 g
Analysis Date:	02/17/2012 2237	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	02/17/2012 1300				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	7500		196	9569	1059	50 - 200	4
Antimony	1.8		48.9	26.99	51	20 - 200	
Arsenic	3.5		97.9	93.10	92	76 - 111	
Barium	61.6		196	244.0	93	52 - 159	
Beryllium	0.37		4.89	4.89	92	72 - 105	
Boron	1.5	B	97.9	87.38	88	75 - 107	
Cadmium	0.12	B	9.79	8.62	87	40 - 130	
Calcium	4340		4890	9800	112	43 - 165	
Chromium	15.0		19.6	46.62	162	70 - 200	
Cobalt	5.4		48.9	47.98	87	72 - 106	
Copper	194		24.5	145.6	-199	37 - 187	4
Iron	19900		97.9	20010	156	70 - 200	4
Lead	25.3		48.9	87.89	128	70 - 200	
Magnesium	3740		4890	8430	96	64 - 145	
Manganese	260		48.9	312.0	107	40 - 200	4
Molybdenum	0.67	B	97.9	84.47	86	75 - 103	
Nickel	15.7		48.9	64.57	100	61 - 126	
Potassium	1470		4890	6109	95	56 - 172	
Selenium	0.83	U	196	168.2	86	76 - 104	
Silicon	436		979	595.5	16	20 - 200	N
Silver	0.15	U	4.89	4.50	92	75 - 141	
Sodium	215		4890	4935	96	78 - 111	
Vanadium	31.6		48.9	78.26	95	50 - 169	
Zinc	54.3		48.9	87.82	68	70 - 200	N

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

Duplicate - Batch: 280-106830

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-25392-1	Analysis Batch:	280-108342	Instrument ID:	MT_025
Client Matrix:	Solid	Prep Batch:	280-106830	Lab File ID:	25A3021712.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.05 g
Analysis Date:	02/17/2012 2240	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	02/17/2012 1300				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Aluminum	7500		7165	5	40	
Antimony	1.8		2.12	14	40	
Arsenic	3.5		5.15	38	30	M
Barium	61.6		63.32	3	30	
Beryllium	0.37		0.360	3	30	
Boron	1.5	B	1.47	1	30	B
Cadmium	0.12	B	0.101	22	30	B
Calcium	4340		4360	0.5	30	
Chromium	15.0		24.23	47	40	M
Cobalt	5.4		6.00	11	30	
Copper	194		273.5	34	30	M
Iron	19900		29700	40	40	
Lead	25.3		39.35	43	40	M
Magnesium	3740		3610	3	30	
Manganese	260		314.8	19	40	
Molybdenum	0.67	B	0.904	30	30	B
Nickel	15.7		19.74	23	30	
Potassium	1470		1427	3	40	
Selenium	0.83	U	0.87	NC	30	U
Silicon	436		341.4	24	40	
Silver	0.15	U	0.16	NC	30	U
Sodium	215		204.2	5	30	
Vanadium	31.6		31.16	1	30	
Zinc	54.3		87.78	47	40	M

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

TCLP SPLPE Leachate Blank - Batch: 280-107029

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	LB 280-106803/1-B	Analysis Batch:	280-107520	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-107029	Lab File ID:	26b021312.asc
Dilution:	1.0	Leach Batch:	280-106803	Initial Weight/Volume:	10 mL
Analysis Date:	02/13/2012 1330	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	02/13/2012 0800				
Leach Date:	02/08/2012 2001				

Analyte	Result	Qual	MDL	RL
Arsenic	0.022	U	0.022	0.50
Barium	0.00480	B	0.0020	1.0
Cadmium	0.0020	U	0.0020	0.10
Chromium	0.0030	U	0.0030	0.50
Lead	0.013	U	0.013	0.50
Selenium	0.024	U	0.024	0.10
Silver	0.0040	U	0.0040	0.50

Lab Control Sample - Batch: 280-107029

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	LCS 280-106803/2-B	Analysis Batch:	280-107520	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-107029	Lab File ID:	26b021312.asc
Dilution:	1.0	Leach Batch:	280-106803	Initial Weight/Volume:	10 mL
Analysis Date:	02/13/2012 1333	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	02/13/2012 0800				
Leach Date:	02/08/2012 2001				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	4.00	3.87	97	80 - 120	
Barium	12.0	11.19	93	80 - 120	
Cadmium	1.10	1.05	96	80 - 120	
Chromium	5.20	4.88	94	80 - 120	
Lead	5.50	5.17	94	80 - 120	
Selenium	3.00	2.85	95	80 - 120	
Silver	1.05	0.993	95	80 - 120	

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

Matrix Spike - Batch: 280-107029

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	280-25392-3	Analysis Batch:	280-107520	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-107029	Lab File ID:	26b021312.asc
Dilution:	1.0	Leach Batch:	280-106803	Initial Weight/Volume:	10 mL
Analysis Date:	02/13/2012 1348	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	02/13/2012 0800				
Leach Date:	02/08/2012 2001				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	0.089	B	4.00	3.91	96	80 - 120	
Barium	0.37	B	12.0	11.40	92	80 - 120	
Cadmium	0.0020	U	1.10	1.05	95	80 - 120	
Chromium	0.0030	U	5.20	4.84	93	80 - 120	
Lead	0.013	U	5.50	5.09	93	80 - 120	
Selenium	0.024	U	3.00	2.87	96	80 - 120	
Silver	0.0040	U	1.05	0.984	94	80 - 120	

Duplicate - Batch: 280-107029

Method: 6010B
Preparation: 3010A
TCLP

Lab Sample ID:	280-25392-3	Analysis Batch:	280-107520	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-107029	Lab File ID:	26b021312.asc
Dilution:	1.0	Leach Batch:	280-106803	Initial Weight/Volume:	10 mL
Analysis Date:	02/13/2012 1345	Units:	mg/L	Final Weight/Volume:	50 mL
Prep Date:	02/13/2012 0800				
Leach Date:	02/08/2012 2001				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Arsenic	0.089	B	0.0882	1	20	B
Barium	0.37	B	0.375	0.5	20	B
Cadmium	0.0020	U	0.0020	NC	20	U
Chromium	0.0030	U	0.0030	NC	20	U
Lead	0.013	U	0.013	NC	20	U
Selenium	0.024	U	0.024	NC	20	U
Silver	0.0040	U	0.0040	NC	20	U

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

TCLP SPLPE Leachate Blank - Batch: 280-107338

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	LB 280-106803/1-C	Analysis Batch:	280-107505	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-107338	Lab File ID:	120213ab2.txt
Dilution:	1.0	Leach Batch:	280-106803	Initial Weight/Volume:	30 mL
Analysis Date:	02/13/2012 2049	Units:	mg/L	Final Weight/Volume:	30 mL
Prep Date:	02/13/2012 0856				
Leach Date:	02/08/2012 2001				

Analyte	Result	Qual	MDL	RL
Mercury	0.000030	U	0.000030	0.0020

Lab Control Sample - Batch: 280-107338

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	LCS 280-106803/2-C	Analysis Batch:	280-107505	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-107338	Lab File ID:	120213ab2.txt
Dilution:	1.0	Leach Batch:	280-106803	Initial Weight/Volume:	30 mL
Analysis Date:	02/13/2012 2051	Units:	mg/L	Final Weight/Volume:	30 mL
Prep Date:	02/13/2012 0856				
Leach Date:	02/08/2012 2001				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00500	0.00554	111	90 - 116	

Matrix Spike - Batch: 280-107338

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	280-25392-3	Analysis Batch:	280-107505	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-107338	Lab File ID:	120213ab2.txt
Dilution:	1.0	Leach Batch:	280-106803	Initial Weight/Volume:	30 mL
Analysis Date:	02/13/2012 2103	Units:	mg/L	Final Weight/Volume:	30 mL
Prep Date:	02/13/2012 0856				
Leach Date:	02/08/2012 2001				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.000030	U	0.00500	0.00506	101	90 - 116	

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

Duplicate - Batch: 280-107338

Method: 7470A
Preparation: 7470A
TCLP

Lab Sample ID:	280-25392-3	Analysis Batch:	280-107505	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-107338	Lab File ID:	120213ab2.txt
Dilution:	1.0	Leach Batch:	280-106803	Initial Weight/Volume:	30 mL
Analysis Date:	02/13/2012 2100	Units:	mg/L	Final Weight/Volume:	30 mL
Prep Date:	02/13/2012 0856				
Leach Date:	02/08/2012 2001				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.000030	U	0.000030	NC	20	U

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

Method Blank - Batch: 280-106898

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 280-106898/1-A	Analysis Batch:	280-107326	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-106898	Lab File ID:	120210ab.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.6 g
Analysis Date:	02/10/2012 1931	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	02/10/2012 1200				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	0.0055	U	0.0055	0.017

Lab Control Sample - Batch: 280-106898

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCS 280-106898/2-A	Analysis Batch:	280-107326	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-106898	Lab File ID:	120210ab.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.6 g
Analysis Date:	02/10/2012 1934	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	02/10/2012 1200				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.445	107	87 - 111	

Matrix Spike - Batch: 280-106898

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-25392-1	Analysis Batch:	280-107326	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-106898	Lab File ID:	120210ab.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.60 g
Analysis Date:	02/10/2012 1945	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	02/10/2012 1200				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.0054	U	0.444	0.488	110	87 - 111	

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

Duplicate - Batch: 280-106898

Method: 7471A
Preparation: 7471A

Lab Sample ID:	280-25392-1	Analysis Batch:	280-107326	Instrument ID:	MT_033
Client Matrix:	Solid	Prep Batch:	280-106898	Lab File ID:	120210ab.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	0.61 g
Analysis Date:	02/10/2012 1943	Units:	mg/Kg	Final Weight/Volume:	50 mL
Prep Date:	02/10/2012 1200				
Leach Date:	N/A				

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Mercury	0.0054	U	0.0058	NC	20	U

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-25392-1
Sdg Number: J01416

Duplicate - Batch: 280-106888

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-25392-1	Analysis Batch:	280-106888	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:	02/09/2012 1015	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	6.2	6.3	0.8	20	

- 0.5, ~~7.4~~ 5.4/8.12 R2 SC 618

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-211-045	Page 1 of 1
Collector Moore, BR	Company Contact Joan Kessner	Telephone No. (509) 375-4688	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 600-300 Area (12A)(12B)(12C)		SAF No. RC-211	
Ice Chest No. RCC-07-13 ~~NA~~ AF 2-6-12	Field Logbook No. EL-1651-02	COA 0603008100	Method of Shipment ~~Hand Deliver~~ AF 2-6-12 Fed Ex	
Shipped To TestAmerica Incorporated, Richland (Denver)	Offsite Property No. ~~NA~~ AF 2-6-12 A110178		Bill of Lading/Air Bill No. ~~NA~~ AF 2-6-12 See OSPC	

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool 4C

Preservation	Cool 4C	None									
Type of Container	G/P	G/P									
No. of Container(s)	1	1									
Volume	60mL	120mL									
SAMPLE ANALYSIS	See item (1) in Special Instructions.	See item (2) in Special Instructions.									

Sample No.	Matrix *	Sample Date	Sample Time									
J1N3L2	SOIL	2-6-12	0940	X	X							12A
J1N3L3	SOIL	2-6-12	1005	X	X							12B
J1N3L4	SOIL	2-6-12	1030	X	X							12C

CHAIN OF POSSESSION		Sign/Print Names	
Relinquished By/Removed From Brandt Moore	Date/Time 2-6-12 1050	Received By/Stored In JenRussell JenRussell	Date/Time 2-6-12 1050
Relinquished By/Removed From JenRussell JenRussell	Date/Time 2-6-12 1550	Received By/Stored In 1060 #1 A. Freier A. Freier	Date/Time 2-6-12 1550
Relinquished By/Removed From Jim Wolf	Date/Time 1060 #1 2/7/12 0915	Received By/Stored In Fed EX	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In [signature]	Date/Time 2/8/12 0930
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time

SPECIAL INSTRUCTIONS

(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}

SDG
J01416

Custodian unavailable to remove samples from controlled storage. Shipper removed samples from storage location taking custod of samples for shipment to lab.

REVIEWED BY [signature] DATE 2/7/12

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Project 28002142 - 6010 TR - Solid

Analytical Due:

Report Due: 2/23/12 (Rush 11dy TAT)

Sample Check-in List

Date/Time Received: 2/8/12 0930 **GM Screen Result** 12 **microR/hr**

Client: Washington Closure Hanford **SDG #:** J01416 **NA[ ] SAF #:** RC-211 **NA [ ]**

Job Number: 25392 **Chain of Custody #** RC-211-045

Shipping Container ID: RCC-07-013 **Air Bill #** 7932 0119 6291

1. Custody Seals on shipping container intact? NA [ ] Yes [✓] No [ ]
2. Custody Seals dated and signed? NA [ ] Yes [✓] No [ ]
3. Chain of Custody record present? NA [ ] Yes [✓] No [ ]
4. Cooler Temperature °C: -0.5° NA [ ] 5. Vermiculite/packing materials is NA [ ] Wet [✓] Dry [ ]
6. Number of samples in shipping container: 3
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:** 2/8/12

Client Sample ID	Analysis Requested	Condition	Comments/Action

Client Informed on ___ by ___ Person Contacted ___

[ ] No action necessary; process as is.

Project Manager [signature] Date 2/9/12

RCC-07-013

From: (509) 376-7788
1162 SHIPPING DEPT
US DOE
2355 STEVENS DR

RICHLAND, WA 99354

Origin ID: PSCA

FedEx. Express

J12101112190225

Ship Date: 07FEB12
ActWgt: 63.0 LB
CAD: 5851986/INET3250

Delivery Address Bar Code

SHIP TO: (303) 736-0190

BILL THIRD PARTY

KAE YODER
TEST AMERICA
4955 YARROW ST # A110178

ARVADA, CO 80002

Ref # 010D732000
Invoice #
PO #
Dept #

1 of 2

WED - 08 FEB A1
PRIORITY OVERNIGHT

TRK# 0201 7932 0119 6291

MASTER

XH WHHA

80002
CO-US
DEN

512G1/9F59/A278

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