

0096121

SAF-RC-150
300 Area Field Remediation – Other
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21

KW 5/3/11
INITIAL/DATE

COMMENTS:

SDG J01084

SAF-RC-150

Rad only

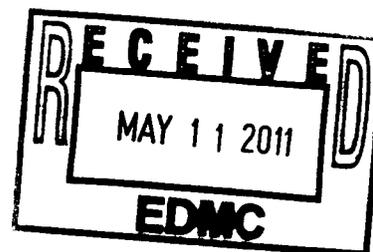
Chem only

Rad & Chem

Complete

Partial

Sample Location/Waste Site: 321 Building



ANALYTICAL REPORT

Job Number: 280-14384-1

SDG Number: J01084

Job Description: SAF# RC-150

For:

Washington Closure Hanford
2620 Fermi Avenue
Richland, WA 99354

Attention: Joan H Kessner



Approved for release
Kae E Yoder
Project Manager II
4/28/2011 2:00 PM

Kae E Yoder
Project Manager II
kae.yoder@testamericainc.com
04/28/2011

The test results in this report relate only to the samples in this report and meet all requirements of NELAP, 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: 280-14384-1

SDG #: J01084

SAF#: RC-150

Date SDG Closed: April 8, 2011

Data Deliverable: 21 Day / Summary

<u>CLIENT ID</u>	<u>LAB ID</u>	<u>ANALYSES REQUESTED</u>	<u>ANALYSES PERFORMED</u>
J1H1T8	280-14384-1	6010/9045	6010B/9045C

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 4/8/2011; the sample arrived in good condition, properly preserved. The temperature of the cooler at receipt was 14.4 C. No ice was present in the cooler. As instructed by the client on 4/11/2011, the laboratory proceeded with the requested analyses.

TOTAL METALS - SW846 6010B

Serial dilution of a digestate in batch 280-61723 indicates that physical and chemical interferences are present for several elements. Results have been flagged with an "X".

Low levels of Lead and Zirconium are present in the method blank associated with batch 280-61723. 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 and Manganese in the Matrix Spike performed on sample J1H1T8; therefore, control limits are not applicable.

Silver was recovered outside the control limits in the Matrix Spike performed on sample J1H1T8, 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 duplicate analysis of sample J1H1T8 exhibited RPD data outside the control limits for Molybdenum, 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 - SW846 9045C - PH

No anomalies were encountered.

DATA REPORTING QUALIFIERS

Client: Washington Closure Hanford

Job Number: 280-14384-1

Sdg Number: J01084

<u>Lab Section</u>	<u>Qualifier</u>	<u>Description</u>
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.
General Chemistry		
	M	Sample duplicate precision not met.

METHOD SUMMARY

Client: Washington Closure Hanford

Job Number: 280-14384-1

Sdg Number: J01084

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
pH	TAL DEN	SW846 9045C	
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

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: 280-14384-1
Sdg Number: J01084

Method	Analyst	Analyst ID
SW846 6010B	Bowen, Heidi E	HEB
SW846 9045C	Taylor, Juli M	JMT
ASTM D-2216	Berry III, Paul B	PBB

SAMPLE SUMMARY

Client: Washington Closure Hanford

Job Number: 280-14384-1
Sdg Number: J01084

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-14384-1	J1H1T8	Solid	04/06/2011 1400	04/08/2011 1000

SAMPLE RESULTS

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-14384-1
Sdg Number: J01084

Client Sample ID: J1H1T8

Lab Sample ID: 280-14384-1
Client Matrix: Solid

% Moisture: 12.1

Date Sampled: 04/06/2011 1400
Date Received: 04/08/2011 1000

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-63321	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-61723	Lab File ID:	26c042011.asc
Dilution:	1 0			Initial Weight/Volume:	1.03 g
Analysis Date:	04/20/2011 1651			Final Weight/Volume:	100 mL
Prep Date:	04/20/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Aluminum		10600	X	1.7	5.5
Arsenic		4.1		0.73	1.1
Barium		267	X	0.084	0.55
Beryllium		0.036	U	0.036	0.22
Boron		6.7		1.1	2.2
Cadmium		0.045	U	0.045	0.22
Calcium		110000	X	15.6	55.2
Chromium		23.9	X	0.064	0.22
Cobalt		5.9	X	0.11	1.1
Copper		19.7		0.24	1.1
Iron		15000	X	4.2	5.5
Lead		3.7		0.30	0.55
Manganese		255	X	0.11	1.1
Molybdenum		0.95	B M	0.29	2.2
Nickel		13.4	X	0.14	4.4
Potassium		417		45.3	331
Selenium		1.6		0.95	1.1
Silicon		138		6.3	11.0
Silver		0.18	U N	0.18	0.22
Vanadium		62.9		0.10	2.2
Zinc		43.5	X	0.44	1.1
Zirconium		31.7	X	0.39	2.8

Analysis Method:	6010B	Analysis Batch:	280-63591	Instrument ID:	MT_026
Prep Method:	3050B	Prep Batch:	280-61723	Lab File ID:	26a042111.asc
Dilution:	1.0			Initial Weight/Volume:	1.03 g
Analysis Date:	04/21/2011 1417			Final Weight/Volume:	100 mL
Prep Date:	04/20/2011 0830				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	MDL	RL
Antimony		0.72		0.42	0.66
Magnesium		3220	X	4.1	22.1
Sodium		251		65.2	133

Analytical Data

Client: Washington Closure Hanford

Job Number: 280-14384-1
Sdg Number: J01084

General Chemistry

Client Sample ID: J1H1T8

Lab Sample ID: 280-14384-1

Client Matrix: Solid

Date Sampled: 04/06/2011 1400

Date Received: 04/08/2011 1000

Analyte	Result	Qual	Units	RL	RL	Dil	Method
pH adj. to 25 deg C-Soluble	12.2		SU	0.0100	0.0100	1.0	9045C
	Analysis Batch: 280-61512		Analysis Date: 04/09/2011 1002				DryWt Corrected: N
Percent Moisture	12.1	M	%	0.10	0.10	1.0	D-2216
	Analysis Batch: 280-61582		Analysis Date: 04/11/2011 0925				DryWt Corrected: N

QUALITY CONTROL RESULTS

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-14384-1

Sdg Number: J01084

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-61723					
LCS 280-61723/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-61723/1-A	Method Blank	T	Solid	3050B	
280-14384-1	J1H1T8	T	Solid	3050B	
280-14384-1DU	Duplicate	T	Solid	3050B	
280-14384-1MS	Matrix Spike	T	Solid	3050B	
Analysis Batch:280-63321					
LCS 280-61723/2-A	Lab Control Sample	T	Solid	6010B	280-61723
MB 280-61723/1-A	Method Blank	T	Solid	6010B	280-61723
280-14384-1	J1H1T8	T	Solid	6010B	280-61723
280-14384-1DU	Duplicate	T	Solid	6010B	280-61723
280-14384-1MS	Matrix Spike	T	Solid	6010B	280-61723
Analysis Batch:280-63591					
LCS 280-61723/2-A	Lab Control Sample	T	Solid	6010B	280-61723
MB 280-61723/1-A	Method Blank	T	Solid	6010B	280-61723
280-14384-1	J1H1T8	T	Solid	6010B	280-61723
280-14384-1DU	Duplicate	T	Solid	6010B	280-61723
280-14384-1MS	Matrix Spike	T	Solid	6010B	280-61723
Report Basis					
T = Total					
General Chemistry					
Prep Batch: 280-61497					
280-14384-1	J1H1T8	S	Solid	DI Leach	
280-14384-1DU	Duplicate	S	Solid	DI Leach	
Analysis Batch:280-61512					
LCS 280-61512/4	Lab Control Sample	T	Water	9045C	
LCSD 280-61512/5	Lab Control Sample Duplicate	T	Water	9045C	
280-14384-1	J1H1T8	S	Solid	9045C	
280-14384-1DU	Duplicate	S	Solid	9045C	
Analysis Batch:280-61582					
280-14384-1	J1H1T8	T	Solid	D-2216	
280-14384-1DU	Duplicate	T	Solid	D-2216	

Report Basis

S = Soluble

T = Total

TestAmerica Denver

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-14384-1
Sdg Number: J01084

Method Blank - Batch: 280-61723

**Method: 6010B
Preparation: 3050B**

Lab Sample ID: MB 280-61723/1-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/20/2011 1647
Prep Date: 04/20/2011 0830
Leach Date: N/A

Analysis Batch: 280-63321
Prep Batch: 280-61723
Leach Batch: N/A
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26c042011.asc
Initial Weight/Volume: 1 g
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Aluminum	1.6	U	1.6	5.0
Arsenic	0.66	U	0.66	1.0
Barium	0.076	U	0.076	0.50
Beryllium	0.033	U	0.033	0.20
Boron	0.98	U	0.98	2.0
Cadmium	0.041	U	0.041	0.20
Calcium	14.1	U	14.1	50.0
Chromium	0.058	U	0.058	0.20
Cobalt	0.10	U	0.10	1.0
Copper	0.22	U	0.22	1.0
Iron	3.8	U	3.8	5.0
Lead	0.327	B	0.27	0.50
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
Vanadium	0.094	U	0.094	2.0
Zinc	0.40	U	0.40	1.0
Zirconium	0.750	B	0.35	2.5

Method Blank - Batch: 280-61723

**Method: 6010B
Preparation: 3050B**

Lab Sample ID: MB 280-61723/1-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/21/2011 1412
Prep Date: 04/20/2011 0830
Leach Date: N/A

Analysis Batch: 280-63591
Prep Batch: 280-61723
Leach Batch: N/A
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26a042111.asc
Initial Weight/Volume: 1 g
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Antimony	0.38	U	0.38	0.60
Magnesium	3.7	U	3.7	20.0
Sodium	59.0	U	59.0	120

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-14384-1
Sdg Number: J01084

Lab Control Sample - Batch: 280-61723

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCS 280-61723/2-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/20/2011 1649
Prep Date: 04/20/2011 0830
Leach Date: N/A

Analysis Batch: 280-63321
Prep Batch: 280-61723
Leach Batch: N/A
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26c042011.asc
Initial Weight/Volume: 1 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	200	187.2	94	82 - 116	
Arsenic	100	101.6	102	85 - 110	
Barium	200	192.8	96	87 - 112	
Beryllium	5.00	4.85	97	84 - 114	
Boron	100	93.42	93	81 - 110	
Cadmium	10.0	9.38	94	87 - 110	
Calcium	5000	4619	92	82 - 114	
Chromium	20.0	19.46	97	84 - 114	
Cobalt	50.0	47.88	96	87 - 110	
Copper	25.0	23.03	92	88 - 110	
Iron	100	101.8	102	87 - 120	
Lead	50.0	51.95	104	86 - 110	
Manganese	50.0	45.22	90	88 - 110	
Molybdenum	100	105.1	105	86 - 110	
Nickel	50.0	49.28	99	87 - 110	
Potassium	5000	4969	99	89 - 110	
Selenium	200	199.8	100	83 - 110	
Silicon	1000	197.3	20	10 - 70	
Silver	5.00	4.47	89	87 - 114	
Vanadium	50.0	45.12	90	88 - 110	
Zinc	50.0	43.14	86	76 - 114	
Zirconium	50.0	51.11	102	90 - 110	

Lab Control Sample - Batch: 280-61723

Method: 6010B
Preparation: 3050B

Lab Sample ID: LCS 280-61723/2-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/21/2011 1414
Prep Date: 04/20/2011 0830
Leach Date: N/A

Analysis Batch: 280-63591
Prep Batch: 280-61723
Leach Batch: N/A
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26a042111.asc
Initial Weight/Volume: 1 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	50.0	47.46	95	82 - 110	
Magnesium	5000	4525	90	90 - 110	
Sodium	5000	5151	103	90 - 112	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-14384-1
Sdg Number: J01084

Matrix Spike - Batch: 280-61723

Method: 6010B
Preparation: 3050B

Lab Sample ID: 280-14384-1
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/20/2011 1700
Prep Date: 04/20/2011 0830
Leach Date: N/A

Analysis Batch: 280-63321
Prep Batch: 280-61723
Leach Batch: N/A
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26c042011.asc
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Aluminum	10600	217	12290	786	50 - 200	4
Arsenic	4.1	108	106.8	95	76 - 111	
Barium	267	217	453.9	86	52 - 159	
Beryllium	0.036 U	5.42	4.32	80	72 - 105	
Boron	6.7	108	96.29	83	75 - 107	
Cadmium	0.045 U	10.8	9.25	85	40 - 130	
Calcium	110000	5420	105400	-83	43 - 165	4
Chromium	23.9	21.7	41.92	83	70 - 200	
Cobalt	5.9	54.2	51.78	85	72 - 106	
Copper	19.7	27.1	41.97	82	37 - 187	
Iron	15000	108	17240	2070	70 - 200	4
Lead	3.7	54.2	52.34	90	70 - 200	
Manganese	255	54.2	334.8	147	40 - 200	4
Molybdenum	0.95 B	108	102.0	93	75 - 103	
Nickel	13.4	54.2	59.87	86	61 - 126	
Potassium	417	5420	5638	96	56 - 172	
Selenium	1.6	217	199.2	91	76 - 104	
Silicon	138	1080	379.2	22	20 - 200	
Silver	0.18 U	5.42	3.83	71	75 - 141	N
Vanadium	62.9	54.2	112.0	91	50 - 169	
Zinc	43.5	54.2	85.94	78	70 - 200	
Zirconium	31.7	54.2	87.00	102	75 - 125	

Matrix Spike - Batch: 280-61723

Method: 6010B
Preparation: 3050B

Lab Sample ID: 280-14384-1
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 04/21/2011 1425
Prep Date: 04/20/2011 0830
Leach Date: N/A

Analysis Batch: 280-63591
Prep Batch: 280-61723
Leach Batch: N/A
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26a042111.asc
Initial Weight/Volume: 1.05 g
Final Weight/Volume: 100 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	0.72	54.2	23.91	43	20 - 200	
Magnesium	3220	5420	8199	92	64 - 145	
Sodium	251	5420	5657	100	78 - 111	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-14384-1
Sdg Number: J01084

Duplicate - Batch: 280-61723

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14384-1	Analysis Batch:	280-63321	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-61723	Lab File ID:	26c042011.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	04/20/2011 1657	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/20/2011 0830				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Aluminum	10600	10830	2	40	
Arsenic	4.1	4.39	6	30	
Barium	267	256.9	4	30	
Beryllium	0.036 U	0.035	NC	30	U
Boron	6.7	6.23	7	30	
Cadmium	0.045 U	0.044	NC	30	U
Calcium	110000	116900	6	30	
Chromium	23.9	25.66	7	40	
Cobalt	5.9	5.91	0.6	30	
Copper	19.7	19.91	1	30	
Iron	15000	14700	2	40	
Lead	3.7	3.08	17	40	
Manganese	255	251.5	1	40	
Molybdenum	0.95 B	0.618	42	30	B M
Nickel	13.4	13.60	1	30	
Potassium	417	388.1	7	40	
Selenium	1.6	0.92	NC	30	U
Silicon	138	132.9	4	40	
Silver	0.18 U	0.17	NC	30	U
Vanadium	62.9	63.79	1	30	
Zinc	43.5	42.72	2	40	
Zirconium	31.7	31.42	1	30	

Duplicate - Batch: 280-61723

Method: 6010B
Preparation: 3050B

Lab Sample ID:	280-14384-1	Analysis Batch:	280-63591	Instrument ID:	MT_026
Client Matrix:	Solid	Prep Batch:	280-61723	Lab File ID:	26a042111.asc
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.06 g
Analysis Date:	04/21/2011 1422	Units:	mg/Kg	Final Weight/Volume:	100 mL
Prep Date:	04/20/2011 0830				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Antimony	0.72	0.844	16	40	
Magnesium	3220	3182	1	30	
Sodium	251	192.8	26	30	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-14384-1
Sdg Number: J01084

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-61512**

**Method: 9045C
Preparation: N/A**

LCS Lab Sample ID:	LCS 280-61512/4	Analysis Batch:	280-61512	Instrument ID:	WC_pH Probe
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/09/2011 1000	Units:	SU	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-61512/5	Analysis Batch:	280-61512	Instrument ID:	WC_pH Probe
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/09/2011 1000	Units:	SU	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
pH adj. to 25 deg C-Soluble	100	100	97 - 103	0	5		

Duplicate - Batch: 280-61512

**Method: 9045C
Preparation: N/A**

Lab Sample ID:	280-14384-1	Analysis Batch:	280-61512	Instrument ID:	WC_pH Probe
Client Matrix:	Solid	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	280-61497	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/09/2011 1004	Units:	SU	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	04/09/2011 0815				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH adj. to 25 deg C-Soluble	12.2	12.21	0.2	5	

Quality Control Results

Client: Washington Closure Hanford

Job Number: 280-14384-1
Sdg Number: J01084

Duplicate - Batch: 280-61582

Method: D-2216
Preparation: N/A

Lab Sample ID:	280-14384-1	Analysis Batch:	280-61582	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:	04/11/2011 0925	Units:	%	Final Weight/Volume:	
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Moisture	12.1	20.3	51	20	M

Analytical Due:

Report Due: 4/29/11

Sample Check-in List

Date/Time Received: 4/8/11 1000 GM Screen Result 12 microR/hr

Client: Washington Closure Hanford SDG #: J01084 NA [] SAF #: RC-150 NA []

Job Number: 14384 Chain of Custody # RC-150-015

Shipping Container ID: WCH-11-040 Air Bill # 7969 0254 1160

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: 14.4 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 Hazard Labels
 - Custody Seals Appropriate Sample Labels
9. Samples are:
 - In Good Condition Leaking
 - Broken Have Air Bubbles

(Only for samples requiring no head space.)
10. Sample pH taken? NA [] pH<2 [] pH>2 [] pH>9 [] Amount HNO₃ 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): Temp of container upon Receipt was >6 @ 14.4 affecting sample J1H1T8

Sample Custodian: [Signature] Date: 4/8/11

Client Sample ID	Analysis Requested	Condition	Comments/Action
J1H1T8	pH, 60107E	Received at 14.4°C	Will proceed unless instructed otherwise

Client Informed on 4/11/11 by MTJ Person Contacted Joan Kessner

No action necessary; process as is.

Project Manager [Signature] Date 4/11

From: (509) 375-4640 Origin ID: PSCA
 WCH MAILROOM
 WASHINGTON CLOSURE HANFORD
 2620 FERMI AVE
 RICHLAND, WA 99354



J11151102250225

Ship Date: 07APR11
 ActWgt: 4.0 LB
 CAD: 8897843/INET3130

Delivery Address Bar Code



SHIP TO: (303) 736-0100
Sample Recieving
Test America Denver
4955 YARROW ST

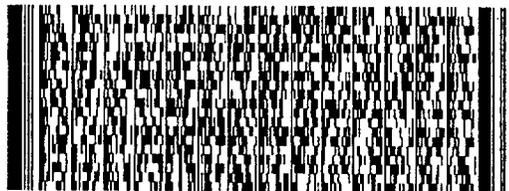
ARVADA, CO 80002

BILL SENDER

Ref #
 Invoice #
 PO #
 Dept #

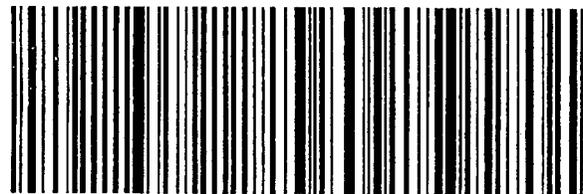
FRI - 08 APR A1
PRIORITY OVERNIGHT

TRK# 7969 6254 1160
 0201



XH WHHA

80002
 CO-US
DEN



50DG3/26A8/7EF8

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