0100823

SAF-RC-110
100-H Burial Grounds Remaining Sites – Soil In-Process
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 12/1/11
INITIAL/DATE

COMMENTS:

SDG J01317 SAF-RC-110

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Waste Site: 100-H-28:2 ACL Stockpiles

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JAN 13 2012
EDMC

Analytical Data Package Prepared For

Washington Closure Hanford

Analysis Provided By

TestAmerica Richland
2800 George Washington Way
Richland WA, 99354
(509)375-3131
Assigned Laboratory Code: TARL

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NOV 2011

SDG Number: J01317

Data Package Contains 26 Pages

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

TestAmerica Laboratories, Inc.

Washington Closure Hanford
2620 Fermi Avenue
Richland, WA 99354

November 30, 2011

Attention: Joan Kessner

SAF Number	:	RC-110
Date SDG Closed	:	November 30, 2011
Number of Samples	:	Thirteen (13)
Sample Type	:	Soil
SDG Number	:	J01317
Data Deliverable	:	Quick Turn Metals / Summary

CASE NARRATIVE

I. Introduction

Between November 2, 2011 and November 9, 2011, thirteen soil samples were received at TestAmerica for analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Washington Closure Hanford (WCH) specific ID;

WCH ID#	TARL ID#	MATRIX	DATE OF RECEIPT
J1K567	MNNJQ	SOIL	11/02/11
J1K568	MNNJR	SOIL	11/02/11
J1K569	MNNJT	SOIL	11/02/11
J1M6J6	MNTXK	SOIL	11/08/11
J1M6J7	MNTXL	SOIL	11/08/11
J1M6J8	MNTXM	SOIL	11/08/11
J1M6J9	MNTXN	SOIL	11/08/11
J1M6K0	MNTXP	SOIL	11/08/11
J1M6X3	MNV4W	SOIL	11/09/11
J1M6X4	MNV4X	SOIL	11/09/11
J1M6X5	MNV40	SOIL	11/09/11
J1M6X6	MNV41	SOIL	11/09/11
J1M6X7	MNV42	SOIL	11/09/11

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes

sample identification information, analytical results and the appropriate associated statistical errors. The requested analyses were:

ICP Metals
ICP Metals by method SW-846 6010A

IV. Quality Control

SDG J01317 includes a minimum of one Laboratory Control Samples (LCS) and one method (reagent) blank. A duplicate sample, matrix spike sample and a matrix spike duplicate sample will be analyzed per 20 samples or per month, whichever is more frequent. Any exceptions have been noted in the "Comments" section.

Blanks and LCS are reported in mg/L units, other QC and sample results are reported in the same units.

V. Comments

ICP Metals
ICP Metals by method SW-846 6010A
Three batches were analyzed in November for the samples with the standard metal request list.

Batch 1306175:
The batch was re-analyzed due to the IEC for sliver in the presence of titanium was not accounted for on the original analysis. The batch was re-analyzed for acceptable results. Except as noted; the LCS, batch blank, samples, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

Batch 1312228:
The LCS, batch blank, samples, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

Batch 1313236:
The LCS, batch blank, samples, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. 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 following signature.

Reviewed and approved:

Rhonda Wagar
Project Manager

SDG: J01317
SAF: RC-110
BATCH: 1306175_AMENDED
MATRIX: SOIL
ANALYSIS DATE: 11/04/11

Client_id	Matrix	Result	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_S	Reporting_Limits	Uncertainty_1s	Analyzed_sa_s	Analyzed_Decision_level_lc	LCSRec	Added/	Analysis_date_time	Batch_nbr	Test_Meth	Lab_sample_id
J1K567	SOIL	BS	7440-22-4	Ag	-3.87E-02	U	UG/G	1.09E+00	1.09E+00	5.80E-02	0.2522 G	4.79E-02			11/4/2011 12:30	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	BS	7440-38-2	As	1.23E+01		UG/G	4.28E+00	4.28E+00	3.70E-01	0.2522 G	3.06E-01			11/4/2011 12:30	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	BS	7440-89-3	Ba	7.06E+01		UG/G	8.92E-01	8.92E-01	2.50E-01	0.2522 G	2.06E-01			11/4/2011 12:30	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	BS	7440-41-7	Beryllium	3.12E-01		UG/G	1.19E-01	1.19E-01	9.60E-03	0.2522 G	7.89E-03			11/4/2011 12:30	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	BS	7440-43-9	Cadmium	1.48E-01	U	UG/G	1.74E+00	1.74E+00	4.00E-02	0.2522 G	3.32E-02			11/4/2011 12:30	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	BS	7440-47-3	Chromium	9.49E+00		UG/G	9.91E-01	9.91E-01	1.70E-02	0.2522 G	1.43E-02			11/4/2011 12:30	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	BS	7439-92-1	Lead	3.09E+01		UG/G	3.45E+00	3.45E+00	3.30E-01	0.2522 G	2.68E-01			11/4/2011 12:30	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	BS	7782-49-2	Se	9.44E-02	U	UG/G	8.29E+00	8.29E+00	5.20E-01	0.2522 G	4.27E-01			11/4/2011 12:30	1306175	46DQ	MNNJQ1A0
J1K568	SOIL	BS	7440-22-4	Ag	-8.77E-02	U	UG/G	1.07E+00	1.07E+00	1.00E-01	0.2573 G	8.22E-02			11/4/2011 12:53	1306175	46DQ	MNNJR1AA
J1K568	SOIL	BS	7440-38-2	As	4.81E+00		UG/G	4.20E+00	4.20E+00	8.80E-01	0.2573 G	7.21E-01			11/4/2011 12:53	1306175	46DQ	MNNJR1AA
J1K568	SOIL	BS	7440-89-3	Ba	1.12E+02		UG/G	8.74E-01	8.74E-01	1.40E+00	0.2573 G	1.15E+00			11/4/2011 12:53	1306175	46DQ	MNNJR1AA
J1K568	SOIL	BS	7440-41-7	Beryllium	3.16E-01		UG/G	1.17E-01	1.17E-01	1.40E-02	0.2573 G	1.17E-02			11/4/2011 12:53	1306175	46DQ	MNNJR1AA
J1K568	SOIL	BS	7440-43-9	Cadmium	1.88E-01	U	UG/G	1.71E+00	1.71E+00	9.20E-02	0.2573 G	7.53E-02			11/4/2011 12:53	1306175	46DQ	MNNJR1AA
J1K568	SOIL	BS	7440-47-3	Chromium	1.29E+01		UG/G	9.72E-01	9.72E-01	9.90E-02	0.2573 G	8.17E-02			11/4/2011 12:53	1306175	46DQ	MNNJR1AA
J1K568	SOIL	BS	7439-92-1	Lead	1.76E+01		UG/G	3.38E+00	3.38E+00	3.80E-01	0.2573 G	3.09E-01			11/4/2011 12:53	1306175	46DQ	MNNJR1AA
J1K568	SOIL	BS	7782-49-2	Se	-1.27E-02	U	UG/G	8.12E+00	8.12E+00	3.60E-01	0.2573 G	2.95E-01			11/4/2011 12:53	1306175	46DQ	MNNJR1AA
J1K569	SOIL	BS	7440-22-4	Ag	-1.46E-01	U	UG/G	1.06E+00	1.06E+00	2.20E-01	0.2593 G	1.82E-01			11/4/2011 12:56	1306175	46DQ	MNNJT1AA
J1K569	SOIL	BS	7440-38-2	As	6.98E+00		UG/G	4.17E+00	4.17E+00	2.40E-01	0.2593 G	1.98E-01			11/4/2011 12:56	1306175	46DQ	MNNJT1AA
J1K569	SOIL	BS	7440-89-3	Ba	6.47E+01		UG/G	8.68E-01	8.68E-01	4.90E-01	0.2593 G	4.05E-01			11/4/2011 12:56	1306175	46DQ	MNNJT1AA
J1K569	SOIL	BS	7440-41-7	Beryllium	2.95E-01		UG/G	1.16E-01	1.16E-01	5.90E-03	0.2593 G	4.87E-03			11/4/2011 12:56	1306175	46DQ	MNNJT1AA
J1K569	SOIL	BS	7440-43-9	Cadmium	1.42E-01	U	UG/G	1.70E+00	1.70E+00	4.60E-02	0.2593 G	3.78E-02			11/4/2011 12:56	1306175	46DQ	MNNJT1AA
J1K569	SOIL	BS	7440-47-3	Chromium	1.01E+01		UG/G	9.64E-01	9.64E-01	2.20E-01	0.2593 G	1.84E-01			11/4/2011 12:56	1306175	46DQ	MNNJT1AA
J1K569	SOIL	BS	7439-92-1	Lead	2.10E+01		UG/G	3.36E+00	3.36E+00	2.90E-01	0.2593 G	2.37E-01			11/4/2011 12:56	1306175	46DQ	MNNJT1AA
J1K569	SOIL	BS	7782-49-2	Se	1.97E-01	U	UG/G	8.06E+00	8.06E+00	1.00E+00	0.2593 G	8.51E-01			11/4/2011 12:56	1306175	46DQ	MNNJT1AA
INTRA-LA	SOIL	BLK	7440-22-4	Ag	-4.34E-05	U	MG/L	5.50E-03	5.50E-03	5.10E-04	1 L	4.21E-04			11/4/2011 12:10	1306175	46DQ	MNNK91AA
INTRA-LA	SOIL	BLK	7440-38-2	As	2.27E-04	U	MG/L	2.16E-02	2.16E-02	1.90E-03	1 L	1.53E-03			11/4/2011 12:10	1306175	46DQ	MNNK91AA
INTRA-LA	SOIL	BLK	7440-89-3	Ba	8.37E-05	U	MG/L	4.50E-03	4.50E-03	2.60E-05	1 L	2.15E-05			11/4/2011 12:10	1306175	46DQ	MNNK91AA
INTRA-LA	SOIL	BLK	7440-41-7	Beryllium	4.57E-05	U	MG/L	6.00E-04	6.00E-04	1.50E-05	1 L	1.20E-05			11/4/2011 12:10	1306175	46DQ	MNNK91AA
INTRA-LA	SOIL	BLK	7440-43-9	Cadmium	1.21E-04	U	MG/L	8.80E-03	8.80E-03	3.10E-04	1 L	2.58E-04			11/4/2011 12:10	1306175	46DQ	MNNK91AA
INTRA-LA	SOIL	BLK	7440-47-3	Chromium	-1.05E-03	U	MG/L	5.00E-03	5.00E-03	6.80E-04	1 L	5.58E-04			11/4/2011 12:10	1306175	46DQ	MNNK91AA
INTRA-LA	SOIL	BLK	7439-92-1	Lead	-2.13E-04	U	MG/L	1.74E-02	1.74E-02	2.00E-03	1 L	1.63E-03			11/4/2011 12:10	1306175	46DQ	MNNK91AA
INTRA-LA	SOIL	BLK	7782-49-2	Se	1.19E-03	U	MG/L	4.18E-02	4.18E-02	5.50E-03	1 L	4.55E-03			11/4/2011 12:10	1306175	46DQ	MNNK91AA
INTRA-LA	SOIL	LCS	7440-22-4	Ag	8.93E-01		MG/L	5.50E-03	5.50E-03	4.70E-03	1 L	3.85E-03	0.89	1	11/4/2011 12:13	1306175	46DQ	MNNK91AA
INTRA-LA	SOIL	LCS	7440-38-2	As	9.19E-01		MG/L	2.16E-02	2.16E-02	8.70E-03	1 L	7.12E-03	0.92	1	11/4/2011 12:13	1306175	46DQ	MNNK91AA
INTRA-LA	SOIL	LCS	7440-89-3	Ba	9.76E-01		MG/L	4.50E-03	4.50E-03	1.40E-02	1 L	1.17E-02	0.98	1	11/4/2011 12:13	1306175	46DQ	MNNK91AA
INTRA-LA	SOIL	LCS	7440-41-7	Beryllium	9.52E-01		MG/L	6.00E-04	6.00E-04	4.90E-03	1 L	4.05E-03	1464.3	7E-04	11/4/2011 12:13	1306175	46DQ	MNNK91AA
INTRA-LA	SOIL	LCS	7440-43-9	Cadmium	9.08E-01		MG/L	8.80E-03	8.80E-03	2.80E-03	1 L	2.31E-03	103.05	0.009	11/4/2011 12:13	1306175	46DQ	MNNK91AA
INTRA-LA	SOIL	LCS	7440-47-3	Chromium	9.39E-01		MG/L	5.00E-03	5.00E-03	6.70E-03	1 L	5.53E-03	126.75	0.007	11/4/2011 12:13	1306175	46DQ	MNNK91AA
INTRA-LA	SOIL	LCS	7439-92-1	Lead	9.24E-01		MG/L	1.74E-02	1.74E-02	1.90E-03	1 L	1.56E-03	52.94	0.017	11/4/2011 12:13	1306175	46DQ	MNNK91AA
INTRA-LA	SOIL	LCS	7782-49-2	Se	8.75E-01		MG/L	4.18E-02	4.18E-02	7.10E-03	1 L	5.81E-03	0.88	1	11/4/2011 12:13	1306175	46DQ	MNNK91AA
J1K567 D	SOIL	DUP	7440-22-4	Ag	-1.22E-01	U	UG/G	1.10E+00	1.10E+00	7.60E-02	0.2508 G	6.25E-02			11/4/2011 12:50	1306175	46DQ	MNNJQ1A0
J1K567 D	SOIL	DUP	7440-38-2	As	1.33E+01		UG/G	4.31E+00	4.31E+00	4.20E-01	0.2508 G	3.42E-01			11/4/2011 12:50	1306175	46DQ	MNNJQ1A0
J1K567 D	SOIL	DUP	7440-89-3	Ba	7.69E+01		UG/G	8.97E-01	8.97E-01	5.20E-01	0.2508 G	4.30E-01			11/4/2011 12:50	1306175	46DQ	MNNJQ1A0
J1K567 D	SOIL	DUP	7440-41-7	Beryllium	3.44E-01		UG/G	1.20E-01	1.20E-01	3.60E-03	0.2508 G	2.98E-03			11/4/2011 12:50	1306175	46DQ	MNNJQ1A0
J1K567 D	SOIL	DUP	7440-43-9	Cadmium	1.66E-01	U	UG/G	1.75E+00	1.75E+00	4.10E-02	0.2508 G	3.41E-02			11/4/2011 12:50	1306175	46DQ	MNNJQ1A0
J1K567 D	SOIL	DUP	7440-47-3	Chromium	1.03E+01		UG/G	9.97E-01	9.97E-01	2.90E-01	0.2508 G	2.43E-01			11/4/2011 12:50	1306175	46DQ	MNNJQ1A0
J1K567 D	SOIL	DUP	7439-92-1	Lead	3.31E+01		UG/G	3.47E+00	3.47E+00	2.60E-01	0.2508 G	2.10E-01			11/4/2011 12:50	1306175	46DQ	MNNJQ1A0
J1K567 D	SOIL	DUP	7782-49-2	Se	-4.34E-01	U	UG/G	8.33E+00	8.33E+00	5.40E-01	0.2508 G	4.45E-01			11/4/2011 12:50	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	MS	7440-22-4	Ag	1.68E+02		% REC	1.10E+00	1.10E+00	5.30E-01	0.2511 L	4.38E-01	0.85	199.1	11/4/2011 12:42	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	MS	7440-38-2	As	1.78E+02		% REC	4.30E+00	4.30E+00	2.50E+00	0.2511 L	2.03E+00	0.89	199.1	11/4/2011 12:42	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	MS	7440-89-3	Ba	1.73E+02		% REC	8.96E-01	8.96E-01	1.10E+00	0.2511 L	9.25E-01	0.87	199.1	11/4/2011 12:42	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	MS	7440-41-7	Beryllium	1.82E+02		% REC	1.19E-01	1.19E-01	1.30E+00	0.2511 L	1.05E+00	0.91	199.1	11/4/2011 12:42	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	MS	7440-43-9	Cadmium	1.74E+02		% REC	1.75E+00	1.75E+00	8.80E-01	0.2511 L	7.23E-01	0.88	199.1	11/4/2011 12:42	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	MS	7440-47-3	Chromium	1.74E+02		% REC	9.96E-01	9.96E-01	1.60E+00	0.2511 L	1.30E+00	0.87	199.1	11/4/2011 12:42	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	MS	7439-92-1	Lead	1.70E+02		% REC	3.46E+00	3.46E+00	7.30E-01	0.2511 L	6.00E-01	0.85	199.1	11/4/2011 12:42	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	MS	7782-49-2	Se	1.72E+02		% REC	8.32E+00	8.32E+00	8.50E-01	0.2511 L	6.97E-01	0.86	199.1	11/4/2011 12:42	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	MSD	7440-22-4	Ag	1.69E+02		% REC	1.09E+00	1.09E+00	5.00E-01	0.2519 L	4.10E-01	0.85	198.5	11/4/2011 12:46	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	MSD	7440-38-2	As	1.79E+02		% REC	4.29E+00	4.29E+00	1.70E+00	0.2519 L	1.43E+00	0.9	198.5	11/4/2011 12:46	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	MSD	7440-89-3	Ba	1.75E+02		% REC	8.93E-01	8.93E-01	1.10E+00	0.2519 L	9.24E-01	0.88	198.5	11/4/2011 12:46	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	MSD	7440-41-7	Beryllium	1.82E+02		% REC	1.19E-01	1.19E-01	8.20E-01	0.2519 L	6.77E-01	0.92	198.5	11/4/2011 12:46	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	MSD	7440-43-9	Cadmium	1.74E+02		% REC	1.75E+00	1.75E+00	8.00E-01	0.2519 L	6.58E-01	0.88	198.5	11/4/2011 12:46	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	MSD	7440-47-3	Chromium	1.75E+02		% REC	9.92E-01	9.92E-01	1.20E+00	0.2519 L	9.87E-01	0.88	198.5	11/4/2011 12:46	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	MSD	7439-92-1	Lead	1.70E+02		% REC	3.45E+00	3.45E+00	1.10E+00	0.2519 L	9.01E-01	0.85	198.5	11/4/2011 12:46	1306175	46DQ	MNNJQ1A0
J1K567	SOIL	MSD	7782-49-2	Se	1.71E+02		% REC	8.30E+00	8.30E+00	1.80E+00	0.2519 L	1.47E+00	0.86	198.5	11/4/2011 12:46	1306175	46DQ	MNNJQ1A0

Clouseau
Nonconformance Memo

TestAmerica
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NCM #: **10-19576**
NCM Initiated By: Traci Nolan
Date Opened: 11/07/2011
Date Closed:

Classification: **Deficiency**
Status: **PMREVIEW**
Production Area: Classical Chemistry
Tests: 6010A
Lot #'s (Sample #'s): J1K020000 (175), J1K020454 (1,2,3),
QC Batches: 1306175,

Nonconformance: Incorrect prep/analysis procedure followed
Subcategory: Laboratory error: analyst error

Problem Description / Root Cause

Name	Date	Description
Traci Nolan	11/07/2011	Silver reported as detected since the IEC for silver in the presence of titanium was not accounted for. Titanium causes large faulse pasitives for silver.

Corrective Action

Name	Date	Corrective Action
Traci Nolan	11/07/2011	Samples rerun on instrument with IEC's in place. Ag result appropriatly reported. All IECs are being reverified as in place and correct on all instruments.

Client Notification Summary

Client	Project Manager	Notified	Response	How Notified	Note	Response	Response Note

Quality Assurance Verification

Verified By	Due Date	Status	Notes
		This section not yet completed by QA.	

Approval History

Date Approved	Approved By	Position

TN 11/7/11

Date Printed: 11/7/2011

Page 1 of 1

SDG: J01317
SAF: RC-110
BATCH: 1212228
MATRIX: SOIL
ANALYSIS DATE: 11/9/11

Client_id	Matrix	Result_	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_:	Reporting_Limits	Uncertainty_	Analyzed_:	Analyzed_:	Decision_level_I	LCSRec	Added	Analysis_date_time	Batch_nbr	Test_Meth	Lab_sample_id
J1M6J6	SOIL	BS	7440-22-4	Ag	-7.05E-02	U	UG/G	1.09E+00	1.09E+00	7.50E-02	0.252	G	6.17E-02			11/9/2011 1:49	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	BS	7440-38-2	As	1.08E+01		UG/G	4.29E+00	4.29E+00	2.10E+00	0.252	G	1.75E+00			11/9/2011 1:49	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	BS	7440-89-3	Ba	6.58E+01		UG/G	8.93E-01	8.93E-01	2.30E+00	0.252	G	1.92E+00			11/9/2011 1:49	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	BS	7440-41-7	Beryllium	2.28E-01		UG/G	1.19E-01	1.19E-01	1.50E-02	0.252	G	1.22E-02			11/9/2011 1:49	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	BS	7440-43-9	Cadmium	1.42E-01	U	UG/G	1.75E+00	1.75E+00	8.90E-02	0.252	G	7.36E-02			11/9/2011 1:49	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	BS	7440-47-3	Chromium	1.05E+01		UG/G	9.92E-01	9.92E-01	4.90E-01	0.252	G	4.06E-01			11/9/2011 1:49	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	BS	7439-92-1	Lead	3.49E+01		UG/G	3.45E+00	3.45E+00	6.00E+00	0.252	G	4.92E+00			11/9/2011 1:49	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	BS	7782-49-2	Se	2.48E-01	U	UG/G	8.29E+00	8.29E+00	4.40E-01	0.252	G	3.64E-01			11/9/2011 1:49	1312228	46DQ	MNTXK1A0
J1M6J7	SOIL	BS	7440-22-4	Ag	-3.17E-02	U	UG/G	1.08E+00	1.08E+00	1.90E-01	0.2558	G	1.60E-01			11/9/2011 2:06	1312228	46DQ	MNTXL1AA
J1M6J7	SOIL	BS	7440-38-2	As	4.66E+00		UG/G	4.22E+00	4.22E+00	6.30E-01	0.2558	G	5.19E-01			11/9/2011 2:06	1312228	46DQ	MNTXL1AA
J1M6J7	SOIL	BS	7440-89-3	Ba	7.56E+01		UG/G	8.80E-01	8.80E-01	4.60E+00	0.2558	G	3.75E+00			11/9/2011 2:06	1312228	46DQ	MNTXL1AA
J1M6J7	SOIL	BS	7440-41-7	Beryllium	2.65E-01		UG/G	1.17E-01	1.17E-01	9.10E-03	0.2558	G	7.46E-03			11/9/2011 2:06	1312228	46DQ	MNTXL1AA
J1M6J7	SOIL	BS	7440-43-9	Cadmium	1.22E-01	U	UG/G	1.72E+00	1.72E+00	5.50E-02	0.2558	G	4.56E-02			11/9/2011 2:06	1312228	46DQ	MNTXL1AA
J1M6J7	SOIL	BS	7440-47-3	Chromium	1.23E+01		UG/G	9.77E-01	9.77E-01	8.50E-01	0.2558	G	6.98E-01			11/9/2011 2:06	1312228	46DQ	MNTXL1AA
J1M6J7	SOIL	BS	7439-92-1	Lead	1.48E+01		UG/G	3.40E+00	3.40E+00	2.50E-01	0.2558	G	2.08E-01			11/9/2011 2:06	1312228	46DQ	MNTXL1AA
J1M6J7	SOIL	BS	7782-49-2	Se	6.00E-01	U	UG/G	8.17E+00	8.17E+00	1.20E+00	0.2558	G	9.71E-01			11/9/2011 2:06	1312228	46DQ	MNTXL1AA
J1M6J8	SOIL	BS	7440-22-4	Ag	-4.84E-02	U	UG/G	1.09E+00	1.09E+00	1.00E-01	0.252	G	8.48E-02			11/9/2011 2:09	1312228	46DQ	MNTXM1AA
J1M6J8	SOIL	BS	7440-38-2	As	3.82E+00	U	UG/G	4.29E+00	4.29E+00	6.50E-01	0.252	G	5.36E-01			11/9/2011 2:09	1312228	46DQ	MNTXM1AA
J1M6J8	SOIL	BS	7440-89-3	Ba	6.76E+01		UG/G	8.93E-01	8.93E-01	5.80E-01	0.252	G	4.80E-01			11/9/2011 2:09	1312228	46DQ	MNTXM1AA
J1M6J8	SOIL	BS	7440-41-7	Beryllium	2.63E-01		UG/G	1.19E-01	1.19E-01	7.10E-03	0.252	G	5.84E-03			11/9/2011 2:09	1312228	46DQ	MNTXM1AA
J1M6J8	SOIL	BS	7440-43-9	Cadmium	1.56E-01	U	UG/G	1.75E+00	1.75E+00	5.20E-02	0.252	G	4.27E-02			11/9/2011 2:09	1312228	46DQ	MNTXM1AA
J1M6J8	SOIL	BS	7440-47-3	Chromium	1.14E+01		UG/G	9.92E-01	9.92E-01	4.40E-01	0.252	G	3.65E-01			11/9/2011 2:09	1312228	46DQ	MNTXM1AA
J1M6J8	SOIL	BS	7439-92-1	Lead	1.23E+01		UG/G	3.45E+00	3.45E+00	8.30E-02	0.252	G	6.83E-02			11/9/2011 2:09	1312228	46DQ	MNTXM1AA
J1M6J8	SOIL	BS	7782-49-2	Se	6.05E-01	U	UG/G	8.29E+00	8.29E+00	5.70E-01	0.252	G	4.70E-01			11/9/2011 2:09	1312228	46DQ	MNTXM1AA
J1M6J9	SOIL	BS	7440-22-4	Ag	1.47E-03	U	UG/G	1.07E+00	1.07E+00	1.60E-01	0.2572	G	1.28E-01			11/9/2011 2:24	1312228	46DQ	MNTXN1AA
J1M6J9	SOIL	BS	7440-38-2	As	5.44E+00		UG/G	4.20E+00	4.20E+00	1.40E+00	0.2572	G	1.15E+00			11/9/2011 2:24	1312228	46DQ	MNTXN1AA
J1M6J9	SOIL	BS	7440-89-3	Ba	7.51E+01		UG/G	6.75E-01	8.75E-01	1.00E+01	0.2572	G	8.60E+00			11/9/2011 2:24	1312228	46DQ	MNTXN1AA
J1M6J9	SOIL	BS	7440-41-7	Beryllium	2.94E-01		UG/G	1.17E-01	1.17E-01	2.70E-02	0.2572	G	2.24E-02			11/9/2011 2:24	1312228	46DQ	MNTXN1AA
J1M6J9	SOIL	BS	7440-43-9	Cadmium	1.77E-01	U	UG/G	1.71E+00	1.71E+00	7.50E-02	0.2572	G	6.19E-02			11/9/2011 2:24	1312228	46DQ	MNTXN1AA
J1M6J9	SOIL	BS	7440-47-3	Chromium	1.79E+01		UG/G	9.72E-01	9.72E-01	3.50E+00	0.2572	G	2.87E+00			11/9/2011 2:24	1312228	46DQ	MNTXN1AA
J1M6J9	SOIL	BS	7439-92-1	Lead	1.34E+01		UG/G	3.38E+00	3.38E+00	3.40E+00	0.2572	G	2.76E+00			11/9/2011 2:24	1312228	46DQ	MNTXN1AA
J1M6J9	SOIL	BS	7782-49-2	Se	3.17E-01	U	UG/G	8.13E+00	8.13E+00	7.50E-01	0.2572	G	6.19E-01			11/9/2011 2:24	1312228	46DQ	MNTXN1AA
J1M6K0	SOIL	BS	7440-22-4	Ag	-8.86E-02	U	UG/G	1.07E+00	1.07E+00	6.90E-02	0.258	G	5.63E-02			11/9/2011 2:28	1312228	46DQ	MNTXP1AA
J1M6K0	SOIL	BS	7440-38-2	As	6.04E+00		UG/G	4.19E+00	4.19E+00	4.50E-01	0.258	G	3.69E-01			11/9/2011 2:28	1312228	46DQ	MNTXP1AA
J1M6K0	SOIL	BS	7440-89-3	Ba	8.78E+01		UG/G	8.72E-01	8.72E-01	4.80E+00	0.258	G	3.92E+00			11/9/2011 2:28	1312228	46DQ	MNTXP1AA
J1M6K0	SOIL	BS	7440-41-7	Beryllium	2.59E-01		UG/G	1.16E-01	1.16E-01	1.20E-02	0.258	G	9.69E-03			11/9/2011 2:28	1312228	46DQ	MNTXP1AA
J1M6K0	SOIL	BS	7440-43-9	Cadmium	1.21E-01	U	UG/G	1.71E+00	1.71E+00	1.50E-02	0.258	G	1.23E-02			11/9/2011 2:28	1312228	46DQ	MNTXP1AA
J1M6K0	SOIL	BS	7440-47-3	Chromium	1.39E+01		UG/G	9.69E-01	9.69E-01	5.40E-01	0.258	G	4.46E-01			11/9/2011 2:28	1312228	46DQ	MNTXP1AA
J1M6K0	SOIL	BS	7439-92-1	Lead	1.48E+01		UG/G	3.37E+00	3.37E+00	5.40E-02	0.258	G	4.43E-02			11/9/2011 2:28	1312228	46DQ	MNTXP1AA
J1M6K0	SOIL	BS	7782-49-2	Se	5.46E-01	U	UG/G	8.10E+00	8.10E+00	8.40E-01	0.258	G	6.92E-01			11/9/2011 2:28	1312228	46DQ	MNTXP1AA
INTRA-LA	SOIL	BLK	7440-22-4	Ag	1.99E-04	U	MG/L	5.50E-03	5.50E-03	9.60E-04	0.2579	L	7.87E-04			11/9/2011 1:37	1312228	46DQ	MNT4F1AA
INTRA-LA	SOIL	BLK	7440-38-2	As	-2.26E-03	U	MG/L	2.16E-02	2.16E-02	1.30E-03	0.2579	L	1.08E-03			11/9/2011 1:37	1312228	46DQ	MNT4F1AA
INTRA-LA	SOIL	BLK	7440-89-3	Ba	-4.28E-05	U	MG/L	4.50E-03	4.50E-03	7.40E-06	0.2579	L	6.05E-06			11/9/2011 1:37	1312228	46DQ	MNT4F1AA
INTRA-LA	SOIL	BLK	7440-41-7	Beryllium	5.90E-05	U	MG/L	6.00E-04	6.00E-04	3.40E-05	0.2579	L	2.83E-05			11/9/2011 1:37	1312228	46DQ	MNT4F1AA
INTRA-LA	SOIL	BLK	7440-43-9	Cadmium	3.35E-04	U	MG/L	8.80E-03	8.80E-03	1.20E-04	0.2579	L	1.01E-04			11/9/2011 1:37	1312228	46DQ	MNT4F1AA
INTRA-LA	SOIL	BLK	7440-47-3	Chromium	-1.23E-04	U	MG/L	5.00E-03	5.00E-03	1.20E-03	0.2579	L	9.55E-04			11/9/2011 1:37	1312228	46DQ	MNT4F1AA
INTRA-LA	SOIL	BLK	7439-92-1	Lead	6.99E-05	U	MG/L	1.74E-02	1.74E-02	1.30E-03	0.2579	L	1.05E-03			11/9/2011 1:37	1312228	46DQ	MNT4F1AA
INTRA-LA	SOIL	BLK	7782-49-2	Se	2.62E-05	U	MG/L	4.18E-02	4.18E-02	1.50E-03	0.2579	L	1.27E-03			11/9/2011 1:37	1312228	46DQ	MNT4F1AA
INTRA-LA	SOIL	LCS	7440-22-4	Ag	9.45E-01		MG/L	5.50E-03	5.50E-03	1.70E-02	0.2575	L	1.36E-02	0.94	1	11/9/2011 1:40	1312228	46DQ	MNT4F1AA
INTRA-LA	SOIL	LCS	7440-38-2	As	9.64E-01		MG/L	2.16E-02	2.16E-02	3.90E-03	0.2575	L	3.21E-03	0.96	1	11/9/2011 1:40	1312228	46DQ	MNT4F1AA
INTRA-LA	SOIL	LCS	7440-89-3	Ba	1.04E+00		MG/L	4.50E-03	4.50E-03	2.00E-02	0.2575	L	1.63E-02	1.04	1	11/9/2011 1:40	1312228	46DQ	MNT4F1AA
INTRA-LA	SOIL	LCS	7440-41-7	Beryllium	9.98E-01		MG/L	6.00E-04	6.00E-04	1.60E-02	0.2575	L	1.34E-02	1	1	11/9/2011 1:40	1312228	46DQ	MNT4F1AA
INTRA-LA	SOIL	LCS	7440-43-9	Cadmium	9.39E-01		MG/L	8.80E-03	8.80E-03	3.20E-03	0.2575	L	2.62E-03	0.94	1	11/9/2011 1:40	1312228	46DQ	MNT4F1AA
INTRA-LA	SOIL	LCS	7440-47-3	Chromium	1.02E+00		MG/L	5.00E-03	5.00E-03	1.60E-02	0.2575	L	1.32E-02	1.02	1	11/9/2011 1:40	1312228	46DQ	MNT4F1AA
INTRA-LA	SOIL	LCS	7439-92-1	Lead	9.83E-01		MG/L	1.74E-02	1.74E-02	7.60E-03	0.2575	L	6.25E-03	0.98	1	11/9/2011 1:40	1312228	46DQ	MNT4F1AA
INTRA-LA	SOIL	LCS	7782-49-2	Se	8.61E-01		MG/L	4.18E-02	4.18E-02	6.60E-03	0.2575	L	5.47E-03	0.86	1	11/9/2011 1:40	1312228	46DQ	MNT4F1AA
J1M6J6 DI	SOIL	DUP	7440-22-4	Ag	2.23E-02	U	UG/G	1.10E+00	1.10E+00	1.40E-01	0.2508	G	1.13E-01			11/9/2011 2:02	1312228	46DQ	MNTXK1A0
J1M6J6 DI	SOIL	DUP	7440-38-2	As	1.04E+01		UG/G	4.31E+00	4.31E+00	4.70E-01	0.2508	G	3.90E-01			11/9/2011 2:02	1312228	46DQ	MNTXK1A0
J1M6J6 DI	SOIL	DUP	7440-89-3	Ba	6.27E+01		UG/G	8.97E-01	8.97E-01	6.20E-01	0.2508	G	5.10E-01			11/9/2011 2:02	1312228	46DQ	MNTXK1A0
J1M6J6 DI	SOIL	DUP	7440-41-7	Beryllium	2.35E-01		UG/G	1.20E-01	1.20E-01	2.10E-02	0.2508	G	1.75E-02			11/9/2011 2:02	1312228	46DQ	MNTXK1A0
J1M6J6 DI	SOIL	DUP	7440-43-9	Cadmium	1.53E-01	U	UG/G	1.75E+00	1.75E+00	3.40E-02	0.2508	G	2.77E-02			11/9/2011 2:02	1312228	46DQ	MNTXK1A0
J1M6J6 DI	SOIL	DUP	7440-47-3	Chromium	9.21E+00		UG/G	9.97E-01	9.97E-01	3.20E-01	0.2508	G	2.59E-01			11/9/2011 2:02	1312228	46DQ	MNTXK1A0
J1M6J6 DI	SOIL	DUP	7439-92-1	Lead	3.51E+01		UG/G	3.47E+00	3.47E+00	5.10E-01	0.2508	G	4.19E-01			11/9/2011 2:02	1312228	46DQ	MNTXK1A0
J1M6J6 DI	SOIL	DUP	7782-49-2	Se	1.47E-01	U	UG/G	8.33E+00	8.33E+00	1.10E+00	0.2508	G	9.15E-01			11/9/2011 2:02	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	MSD	7440-22-4	Ag	1.76E+02		% REC	1.07E+00	1.07E+00	4.70E+00	0.258	L	3.91E+00	0.91	193.8	11/9/2011 1:57	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	MSD	7440-38-2	As	1.87E+02		% REC	4.19E+00	4.19E+00	7.50E+01	0.258	L	6.13E+01	0.97	193.8	11/9/2011 1:57	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	MSD	7440-89-3	Ba	1.84E+02		% REC	8.72E-01	8.72E-01	1.20E+01	0.258	L	9.81E+00	0.95	193.8	11/9/2011 1:57	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	MSD	7440-41-7	Beryllium	1.88E+02		% REC	1.16E-01	1.16E-01	5.50E+00	0.258	L	4.54E+00	0.97	193.8	11/9/2011 1:57	1312228	46DQ	MNTXK1A0

Client_id	Matrix	Result_	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_	Reporting_Limits	Uncertainty_	Analyzed_	Analyzed_	Decision_level_I	LCS	Rec	Added	Analysis_date_time	Batch_nbr	Test_Meth	Lab_sample_id
J1M6J6	SOIL	MSD	7440-43-9	Cadmium	1.79E+02		% REC	1.71E+00	1.71E+00	6.80E+01	0.258	L	5.59E+01	0.92	193.8		11/9/2011 1:57	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	MSD	7440-47-3	Chromium	1.86E+02		% REC	9.69E-01	9.69E-01	6.60E+00	0.258	L	5.41E+00	0.96	193.8		11/9/2011 1:57	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	MSD	7439-92-1	Lead	1.80E+02		% REC	3.37E+00	3.37E+00	8.00E+01	0.258	L	6.62E+01	0.93	193.8		11/9/2011 1:57	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	MSD	7782-49-2	Se	1.65E+02		% REC	8.10E+00	8.10E+00	6.20E+01	0.258	L	5.11E+01	0.85	193.8		11/9/2011 1:57	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	MS	7440-22-4	Ag	1.82E+02		% REC	1.09E+00	1.09E+00	9.00E-01	0.2528	L	7.39E-01	0.92	197.8		11/9/2011 1:52	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	MS	7440-38-2	As	1.88E+02		% REC	4.27E+00	4.27E+00	3.50E+00	0.2528	L	2.84E+00	0.95	197.8		11/9/2011 1:52	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	MS	7440-89-3	Ba	1.88E+02		% REC	8.90E-01	8.90E-01	1.20E+00	0.2528	L	9.76E-01	0.95	197.8		11/9/2011 1:52	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	MS	7440-41-7	Beryllium	1.95E+02		% REC	1.19E-01	1.19E-01	9.50E-01	0.2528	L	7.84E-01	0.98	197.8		11/9/2011 1:52	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	MS	7440-43-9	Cadmium	1.81E+02		% REC	1.74E+00	1.74E+00	3.60E+00	0.2528	L	2.93E+00	0.92	197.8		11/9/2011 1:52	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	MS	7440-47-3	Chromium	1.93E+02		% REC	9.89E-01	9.89E-01	9.00E-01	0.2528	L	7.40E-01	0.98	197.8		11/9/2011 1:52	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	MS	7439-92-1	Lead	1.85E+02		% REC	3.44E+00	3.44E+00	4.00E+00	0.2528	L	3.31E+00	0.93	197.8		11/9/2011 1:52	1312228	46DQ	MNTXK1A0
J1M6J6	SOIL	MS	7782-49-2	Se	1.66E+02		% REC	8.27E+00	8.27E+00	2.50E+00	0.2528	L	2.06E+00	0.84	197.8		11/9/2011 1:52	1312228	46DQ	MNTXK1A0

SDG: J01317
SAF: RC-110
BATCH: 1313236
MATRIX: SOIL
ANALYSIS DATE: 11/09/11

Client_id	Matrix	Result_	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_s	Reporting_Limits	Uncertainty_1s	Analyzed_s	Analyzed_	Decision_level_I	LCSReco	Added/	Analysis_date_time	Batch_nbr	Test_Meth	Lab_sample_id
J1M6X3	SOIL	BS	7440-22-4	Ag	1.61E-01	U	UG/G	1.11E+00	1.11E+00	2.80E-02	0.2477	G	2.32E-02			11/9/2011 22:22	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	BS	7440-38-2	As	4.20E+00	U	UG/G	4.36E+00	4.36E+00	2.20E+00	0.2477	G	1.77E+00			11/9/2011 22:22	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	BS	7440-89-3	Ba	8.74E+01		UG/G	9.08E-01	9.08E-01	4.50E+00	0.2477	G	3.72E+00			11/9/2011 22:22	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	BS	7440-41-7	Beryllium	3.24E-01		UG/G	1.21E-01	1.21E-01	1.10E-02	0.2477	G	8.78E-03			11/9/2011 22:22	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	BS	7440-43-9	Cadmium	2.57E-01	U	UG/G	1.78E+00	1.78E+00	1.10E-01	0.2477	G	8.76E-02			11/9/2011 22:22	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	BS	7440-47-3	Chromium	1.85E+01		UG/G	1.01E+00	1.01E+00	1.20E+00	0.2477	G	9.62E-01			11/9/2011 22:22	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	BS	7439-92-1	Lead	9.88E+00		UG/G	3.51E+00	3.51E+00	4.10E+00	0.2477	G	3.36E+00			11/9/2011 22:22	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	BS	7782-49-2	Se	2.64E-01	U	UG/G	8.44E+00	8.44E+00	9.10E-01	0.2477	G	7.49E-01			11/9/2011 22:22	1313236	46DQ	MNV4W1A0
J1M6X4	SOIL	BS	7440-22-4	Ag	2.70E-02	U	UG/G	1.10E+00	1.10E+00	1.30E-01	0.2498	G	1.08E-01			11/9/2011 22:51	1313236	46DQ	MNV4X1AC
J1M6X4	SOIL	BS	7440-38-2	As	3.97E+00	U	UG/G	4.32E+00	4.32E+00	5.50E-01	0.2498	G	4.56E-01			11/9/2011 22:51	1313236	46DQ	MNV4X1AC
J1M6X4	SOIL	BS	7440-89-3	Ba	7.99E+01		UG/G	9.01E-01	9.01E-01	2.00E+00	0.2498	G	1.68E+00			11/9/2011 22:51	1313236	46DQ	MNV4X1AC
J1M6X4	SOIL	BS	7440-41-7	Beryllium	2.42E-01		UG/G	1.20E-01	1.20E-01	1.20E-02	0.2498	G	1.01E-02			11/9/2011 22:51	1313236	46DQ	MNV4X1AC
J1M6X4	SOIL	BS	7440-43-9	Cadmium	1.73E-01	U	UG/G	1.76E+00	1.76E+00	7.00E-02	0.2498	G	5.75E-02			11/9/2011 22:51	1313236	46DQ	MNV4X1AC
J1M6X4	SOIL	BS	7440-47-3	Chromium	1.39E+01		UG/G	1.00E+00	1.00E+00	1.90E-01	0.2498	G	1.59E-01			11/9/2011 22:51	1313236	46DQ	MNV4X1AC
J1M6X4	SOIL	BS	7439-92-1	Lead	8.34E+00		UG/G	3.48E+00	3.48E+00	6.70E-01	0.2498	G	5.50E-01			11/9/2011 22:51	1313236	46DQ	MNV4X1AC
J1M6X4	SOIL	BS	7782-49-2	Se	-3.83E-01	U	UG/G	8.37E+00	8.37E+00	6.70E-01	0.2498	G	5.50E-01			11/9/2011 22:51	1313236	46DQ	MNV4X1AC
J1M6X5	SOIL	BS	7440-22-4	Ag	6.69E-02	U	UG/G	1.11E+00	1.11E+00	1.70E-01	0.2484	G	1.41E-01			11/9/2011 23:13	1313236	46DQ	MNV401AA
J1M6X5	SOIL	BS	7440-38-2	As	3.57E+00	U	UG/G	4.35E+00	4.35E+00	1.30E+00	0.2484	G	1.09E+00			11/9/2011 23:13	1313236	46DQ	MNV401AA
J1M6X5	SOIL	BS	7440-89-3	Ba	7.53E+01		UG/G	9.06E-01	9.06E-01	2.50E+00	0.2484	G	2.02E+00			11/9/2011 23:13	1313236	46DQ	MNV401AA
J1M6X5	SOIL	BS	7440-41-7	Beryllium	2.57E-01		UG/G	1.21E-01	1.21E-01	1.20E-02	0.2484	G	9.99E-03			11/9/2011 23:13	1313236	46DQ	MNV401AA
J1M6X5	SOIL	BS	7440-43-9	Cadmium	2.02E-01	U	UG/G	1.77E+00	1.77E+00	6.00E-02	0.2484	G	4.91E-02			11/9/2011 23:13	1313236	46DQ	MNV401AA
J1M6X5	SOIL	BS	7440-47-3	Chromium	1.40E+01		UG/G	1.01E+00	1.01E+00	5.70E-01	0.2484	G	4.70E-01			11/9/2011 23:13	1313236	46DQ	MNV401AA
J1M6X5	SOIL	BS	7439-92-1	Lead	1.42E+01		UG/G	3.50E+00	3.50E+00	5.60E-01	0.2484	G	4.59E-01			11/9/2011 23:13	1313236	46DQ	MNV401AA
J1M6X5	SOIL	BS	7782-49-2	Se	-5.41E-01	U	UG/G	8.41E+00	8.41E+00	5.50E-01	0.2484	G	4.56E-01			11/9/2011 23:13	1313236	46DQ	MNV401AA
J1M6X6	SOIL	BS	7440-22-4	Ag	2.21E-02	U	UG/G	1.09E+00	1.09E+00	6.80E-02	0.2512	G	5.60E-02			11/9/2011 22:58	1313236	46DQ	MNV411AA
J1M6X6	SOIL	BS	7440-38-2	As	4.14E+00	U	UG/G	4.30E+00	4.30E+00	2.00E-01	0.2512	G	1.66E-01			11/9/2011 22:58	1313236	46DQ	MNV411AA
J1M6X6	SOIL	BS	7440-89-3	Ba	8.99E+01		UG/G	8.96E-01	8.96E-01	1.70E+00	0.2512	G	1.38E+00			11/9/2011 22:58	1313236	46DQ	MNV411AA
J1M6X6	SOIL	BS	7440-41-7	Beryllium	2.57E-01		UG/G	1.19E-01	1.19E-01	1.00E-02	0.2512	G	8.48E-03			11/9/2011 22:58	1313236	46DQ	MNV411AA
J1M6X6	SOIL	BS	7440-43-9	Cadmium	1.79E-01	U	UG/G	1.75E+00	1.75E+00	3.50E-02	0.2512	G	2.91E-02			11/9/2011 22:58	1313236	46DQ	MNV411AA
J1M6X6	SOIL	BS	7440-47-3	Chromium	1.88E+01		UG/G	9.95E-01	9.95E-01	1.60E-01	0.2512	G	1.29E-01			11/9/2011 22:58	1313236	46DQ	MNV411AA
J1M6X6	SOIL	BS	7439-92-1	Lead	8.16E+00		UG/G	3.46E+00	3.46E+00	8.00E-01	0.2512	G	6.60E-01			11/9/2011 22:58	1313236	46DQ	MNV411AA
J1M6X6	SOIL	BS	7782-49-2	Se	-3.86E-01	U	UG/G	8.32E+00	8.32E+00	5.30E-01	0.2512	G	4.35E-01			11/9/2011 22:58	1313236	46DQ	MNV411AA
J1M6X7	SOIL	BS	7440-22-4	Ag	2.50E-02	U	UG/G	1.09E+00	1.09E+00	2.00E-01	0.2527	G	1.61E-01			11/9/2011 23:01	1313236	46DQ	MNV421AA
J1M6X7	SOIL	BS	7440-38-2	As	5.56E+00		UG/G	4.27E+00	4.27E+00	2.50E-01	0.2527	G	2.03E-01			11/9/2011 23:01	1313236	46DQ	MNV421AA
J1M6X7	SOIL	BS	7440-89-3	Ba	9.44E+01		UG/G	8.90E-01	8.90E-01	9.30E+00	0.2527	G	7.65E+00			11/9/2011 23:01	1313236	46DQ	MNV421AA
J1M6X7	SOIL	BS	7440-41-7	Beryllium	3.40E-01		UG/G	1.19E-01	1.19E-01	6.90E-02	0.2527	G	5.65E-02			11/9/2011 23:01	1313236	46DQ	MNV421AA
J1M6X7	SOIL	BS	7440-43-9	Cadmium	1.74E-01	U	UG/G	1.74E+00	1.74E+00	4.00E-02	0.2527	G	3.27E-02			11/9/2011 23:01	1313236	46DQ	MNV421AA
J1M6X7	SOIL	BS	7440-47-3	Chromium	1.85E+01		UG/G	9.89E-01	9.89E-01	2.20E+00	0.2527	G	1.78E+00			11/9/2011 23:01	1313236	46DQ	MNV421AA
J1M6X7	SOIL	BS	7439-92-1	Lead	7.96E+00		UG/G	3.44E+00	3.44E+00	4.70E-01	0.2527	G	3.83E-01			11/9/2011 23:01	1313236	46DQ	MNV421AA
J1M6X7	SOIL	BS	7782-49-2	Se	1.66E-01	U	UG/G	8.27E+00	8.27E+00	3.80E-01	0.2527	G	3.13E-01			11/9/2011 23:01	1313236	46DQ	MNV421AA
INTRA-LAI	SOIL	BLK	7440-22-4	Ag	4.63E-04	U	MG/L	5.50E-03	5.50E-03	3.90E-04	0.2407	L	3.23E-04			11/9/2011 22:10	1313236	46DQ	MNV5A1AA
INTRA-LAI	SOIL	BLK	7440-38-2	As	-1.64E-03	U	MG/L	2.16E-02	2.16E-02	5.30E-03	0.2407	L	4.38E-03			11/9/2011 22:10	1313236	46DQ	MNV5A1AA
INTRA-LAI	SOIL	BLK	7440-89-3	Ba	4.44E-04	U	MG/L	4.50E-03	4.50E-03	4.60E-05	0.2407	L	3.76E-05			11/9/2011 22:10	1313236	46DQ	MNV5A1AA
INTRA-LAI	SOIL	BLK	7440-41-7	Beryllium	1.58E-05	U	MG/L	6.00E-04	6.00E-04	2.70E-05	0.2407	L	2.19E-05			11/9/2011 22:10	1313236	46DQ	MNV5A1AA
INTRA-LAI	SOIL	BLK	7440-43-9	Cadmium	3.26E-04	U	MG/L	8.80E-03	8.80E-03	1.10E-04	0.2407	L	9.26E-05			11/9/2011 22:10	1313236	46DQ	MNV5A1AA
INTRA-LAI	SOIL	BLK	7440-47-3	Chromium	2.78E-04	U	MG/L	5.00E-03	5.00E-03	2.10E-04	0.2407	L	1.73E-04			11/9/2011 22:10	1313236	46DQ	MNV5A1AA
INTRA-LAI	SOIL	BLK	7439-92-1	Lead	-1.35E-03	U	MG/L	1.74E-02	1.74E-02	2.20E-03	0.2407	L	1.78E-03			11/9/2011 22:10	1313236	46DQ	MNV5A1AA
INTRA-LAI	SOIL	BLK	7782-49-2	Se	-1.21E-03	U	MG/L	4.18E-02	4.18E-02	2.60E-03	0.2407	L	2.15E-03			11/9/2011 22:10	1313236	46DQ	MNV5A1AA
INTRA-LAI	SOIL	LCS	7440-22-4	Ag	8.70E-01		MG/L	5.50E-03	5.50E-03	7.70E-02	0.2479	L	6.30E-02	0.87	1	11/9/2011 22:14	1313236	46DQ	MNV5A1AA
INTRA-LAI	SOIL	LCS	7440-38-2	As	9.42E-01		MG/L	2.16E-02	2.16E-02	4.70E-02	0.2479	L	3.89E-02	0.94	1	11/9/2011 22:14	1313236	46DQ	MNV5A1AA
INTRA-LAI	SOIL	LCS	7440-89-3	Ba	9.84E-01		MG/L	4.50E-03	4.50E-03	5.10E-02	0.2479	L	4.16E-02	0.98	1	11/9/2011 22:14	1313236	46DQ	MNV5A1AA
INTRA-LAI	SOIL	LCS	7440-41-7	Beryllium	9.07E-01		MG/L	6.00E-04	6.00E-04	8.80E-02	0.2479	L	7.26E-02	0.91	1	11/9/2011 22:14	1313236	46DQ	MNV5A1AA
INTRA-LAI	SOIL	LCS	7440-43-9	Cadmium	9.18E-01		MG/L	8.80E-03	8.80E-03	4.50E-02	0.2479	L	3.69E-02	0.92	1	11/9/2011 22:14	1313236	46DQ	MNV5A1AA
INTRA-LAI	SOIL	LCS	7440-47-3	Chromium	9.23E-01		MG/L	5.00E-03	5.00E-03	8.90E-02	0.2479	L	7.36E-02	0.92	1	11/9/2011 22:14	1313236	46DQ	MNV5A1AA
INTRA-LAI	SOIL	LCS	7439-92-1	Lead	9.60E-01		MG/L	1.74E-02	1.74E-02	4.40E-02	0.2479	L	3.64E-02	0.96	1	11/9/2011 22:14	1313236	46DQ	MNV5A1AA
INTRA-LAI	SOIL	LCS	7782-49-2	Se	8.39E-01		MG/L	4.18E-02	4.18E-02	4.30E-02	0.2479	L	3.54E-02	0.84	1	11/9/2011 22:14	1313236	46DQ	MNV5A1AA
J1M6X3 DI	SOIL	DUP	7440-22-4	Ag	-3.17E-02	U	UG/G	1.09E+00	1.09E+00	1.10E-01	0.2522	L	8.86E-02			11/9/2011 22:48	1313236	46DQ	MNV4W1A0
J1M6X3 DI	SOIL	DUP	7440-38-2	As	4.03E+00	U	UG/G	4.28E+00	4.28E+00	7.30E-01	0.2522	G	6.04E-01			11/9/2011 22:48	1313236	46DQ	MNV4W1A0
J1M6X3 DI	SOIL	DUP	7440-89-3	Ba	9.15E+01		UG/G	8.92E-01	8.92E-01	1.10E+00	0.2522	G	9.32E-01			11/9/2011 22:48	1313236	46DQ	MNV4W1A0
J1M6X3 DI	SOIL	DUP	7440-41-7	Beryllium	3.38E-01		UG/G	1.19E-01	1.19E-01	2.10E-02	0.2522	G	1.69E-02			11/9/2011 22:48	1313236	46DQ	MNV4W1A0
J1M6X3 DI	SOIL	DUP	7440-43-9	Cadmium	2.19E-01	U	UG/G	1.74E+00	1.74E+00	1.40E-02	0.2522	G	1.14E-02			11/9/2011 22:48	1313236	46DQ	MNV4W1A0
J1M6X3 DI	SOIL	DUP	7440-47-3	Chromium	2.01E+01		UG/G	9.91E-01	9.91E-01	7.90E-01	0.2522	G	6.52E-01			11/9/2011 22:48	1313236	46DQ	MNV4W1A0
J1M6X3 DI	SOIL	DUP	7439-92-1	Lead	7.17E+00		UG/G	3.45E+00	3.45E+00	2.10E-02	0.2522	G	1.77E-02			11/9/2011 22:48	1313236	46DQ	MNV4W1A0
J1M6X3 DI	SOIL	DUP	7782-49-2	Se	-3.80E-02	U	UG/G	8.29E+00	8.29E+00	5.00E-01	0.2522	G	4.08E-01			11/9/2011 22:48	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	MS	7440-22-4	Ag	1.79E+02		% REC	1.09E+00	1.09E+00	1.10E+01	0.2515	L	9.14E+00	0.9	198.8	11/9/2011 22:37	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	MS	7440-38-2	As	1.86E+02		% REC	4.29E+00	4.29E+00	8.00E+00	0.2515	L	6.61E+00	0.93	198.8	11/9/2011 22:37	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	MS	7440-89-3	Ba	2.02E+02		% REC	8.95E-01	8.95E-01	1.80E+01	0.2515	L	1.48E+01	1.02	198.8	11/9/2011 22:37	1313236	46DQ	MNV4W1A0

Client_id	Matrix	Result_	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_!	Reporting_Limits	Uncertainty_1s	Analyzed_s	Analyzed_	Decision_level_!	LCS	Reco	Added	Analysis_date_time	Batch_nbr	Test_Meti	Lab_sample_id
J1M6X3	SOIL	MS	7440-41-7	Beryllium	1.87E+02		% REC	1.19E-01	1.19E-01	1.30E+01	0.2515	L	1.05E+01	0.94	198.8		11/9/2011 22:37	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	MS	7440-43-9	Cadmium	1.79E+02		% REC	1.75E+00	1.75E+00	6.90E+00	0.2515	L	5.69E+00	0.9	198.8		11/9/2011 22:37	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	MS	7440-47-3	Chromium	1.87E+02		% REC	9.94E-01	9.94E-01	1.30E+01	0.2515	L	1.07E+01	0.94	198.8		11/9/2011 22:37	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	MS	7439-92-1	Lead	1.76E+02		% REC	3.46E+00	3.46E+00	6.60E+00	0.2515	L	5.43E+00	0.89	198.8		11/9/2011 22:37	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	MS	7782-49-2	Se	1.65E+02		% REC	8.31E+00	8.31E+00	4.90E+00	0.2515	L	4.01E+00	0.83	198.8		11/9/2011 22:37	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	MSD	7440-22-4	Ag	1.76E+02		% REC	1.13E+00	1.13E+00	1.80E+01	0.2436	L	1.50E+01	0.86	205.3		11/9/2011 22:43	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	MSD	7440-38-2	As	1.96E+02		% REC	4.43E+00	4.43E+00	4.00E+01	0.2436	L	3.28E+01	0.96	205.3		11/9/2011 22:43	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	MSD	7440-39-3	Ba	1.85E+02		% REC	9.24E-01	9.24E-01	2.30E+01	0.2436	L	1.90E+01	0.9	205.3		11/9/2011 22:43	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	MSD	7440-41-7	Beryllium	1.84E+02		% REC	1.23E-01	1.23E-01	1.90E+01	0.2436	L	1.55E+01	0.9	205.3		11/9/2011 22:43	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	MSD	7440-43-9	Cadmium	1.89E+02		% REC	1.81E+00	1.81E+00	3.80E+01	0.2436	L	3.11E+01	0.92	205.3		11/9/2011 22:43	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	MSD	7440-47-3	Chromium	1.83E+02		% REC	1.03E+00	1.03E+00	2.10E+01	0.2436	L	1.69E+01	0.89	205.3		11/9/2011 22:43	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	MSD	7439-92-1	Lead	1.87E+02		% REC	3.57E+00	3.57E+00	3.90E+01	0.2436	L	3.22E+01	0.91	205.3		11/9/2011 22:43	1313236	46DQ	MNV4W1A0
J1M6X3	SOIL	MSD	7782-49-2	Se	1.75E+02		% REC	8.58E+00	8.58E+00	3.60E+01	0.2436	L	2.96E+01	0.85	205.3		11/9/2011 22:43	1313236	46DQ	MNV4W1A0

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-110-057	Page 1 of 1

Collector Q. Stowe	**Company Contact** Joan Kessner	**Telephone No.** 509-375-4688	**Project Coordinator** KESSNER, JH
Price Code 8L	**Data Turnaround** ~~21 Days~~ 24 h		
Project Designation 100-H Burial Grounds Remaining Sites - Soil In-Process	**Sampling Location** 100-H-28:2 ACL Stockpiles		**SAF No.** RC-110
Ice Chest No. NA	**Field Logbook No.** EL 1627-05	**COA** 01H2822600	**Method of Shipment** Hand Deliver
Shipped To TestAmerica Incorporated, Richland	**Offsite Property No.** NA		**Bill of Lading/Air Bill No.** NA

POSSIBLE SAMPLE HAZARDS/REMARKS

~~None~~ Possible Rad LDOT Limits

Special Handling and/or Storage

Cool at 4 deg C

J01317

J1K020454

Due 11-3-11

Preservation				Cool 4C	None								
Type of Container				G/P	G/P								
No. of Container(s)				1	1								
Volume				120mL	60g								
SAMPLE ANALYSIS				See item (1) in Special Instructions.	RCF GEA Shipping Screen								
Sample No.	Matrix *	Sample Date	Sample Time					RCF					
J1K567 MNNJQ	SOIL	11/1/11	0955	X				30755					
J1K568 MNNJR	SOIL	11/1/11	1005	X				30756					
J1K569 MNNJT	SOIL	11/1/11	1010	X				30757					

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: Quincy Stowe	11/01/11 1035	Received By/Stored In: JV Fullmer	1035 11/1/11
Relinquished By/Removed From: JV Fullmer	1555 11/1/11	Received By/Stored In: 1060#2 A. Freier	1555 11/1/11
Relinquished By/Removed From: LOCH 1060#2 A. Freier	1140 11/2/11	Received By/Stored In: TAIR	1140 11/2/11
Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
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) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}

J1K020454

CK 11-2-11

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
Ve/Vegetation
X=Other

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

WCH-EE-011

Apex™

Analysis Report for RCF30755

J1K567 SAF#: RC-110 100H/100-H-28:2 ACL Stockpiles Soil Sample

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF30755
Sample Description	: J1K567 SAF#: RC-110 100H/100-H-28:2 ACL Stockpiles Soil Sample
Sample Type	: 80g pillbox
Sample Size	: 8.000E+01 grams
Facility	: Default
Sample Taken On	: 11/1/2011 9:55:03AM
Acquisition Started	: 11/1/2011 4:06:06PM
Procedure	: 80 Gram Pill Box
Operator	: RCT
Detector Name	: PGTLYNX
Geometry	: 80 Gram Pill Box
Live Time	: 1800.0 seconds
Real Time	: 1801.2 seconds
Dead Time	: 0.06 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 40 - 4096
Peak Area Range (in channels)	: 40 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 3/3/2011
Efficiency Calibration Used Done On	: 3/11/2011
Efficiency Calibration Description	: PGTL 80gPB 030811EC SN82752-238
Sample Number	: 20731

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		0.983	1.22E+01	3.20E+00	
PB-212		0.708	9.02E-01	1.87E-01	
RA-226d	@	0.351	3.95E-01	1.51E-01	
TH-232d		0.341	8.38E-01	2.17E-01	

Apex™

Analysis Report for RCF30756

J1K568 SAF#: RC-110 100H/100-H-28:2 ACL Stockpiles Soil Sample

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF30756
Sample Description	: J1K568 SAF#: RC-110 100H/100-H-28:2 ACL Stockpiles Soil Sample
Sample Type	: 80g pillbox
Sample Size	: 7.300E+01 grams
Facility	: Default
Sample Taken On	: 11/1/2011 10:05:03AM
Acquisition Started	: 11/1/2011 4:06:16PM
Procedure	: 80 Gram Pill Box
Operator	: RCT
Detector Name	: REGIE2
Geometry	: 80 Gram Pill Box
Live Time	: 1800.0 seconds
Real Time	: 1800.6 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 40 - 4096
Peak Area Range (in channels)	: 40 - 4098
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 3/11/2011
Efficiency Calibration Used Done On	: 3/16/2011
Efficiency Calibration Description	: REGIE2 80gPB 031511EC SN82752-238
Sample Number	: 20732

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		0.998	1.99E+01	4.10E+00	
RA-226d	@	0.350	5.51E-01	1.78E-01	
TH-232d		0.433	6.50E-01	1.86E-01	

Apex™

Analysis Report for RCF30757

J1K569 SAF#: RC-110 100H/100-H-28:2 ACL Stockpiles Soil Sample

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF30757
Sample Description	: J1K569 SAF#: RC-110 100H/100-H-28:2 ACL Stockpiles Soil Sample
Sample Type	: 80g pillbox
Sample Size	: 8.100E+01 grams
Facility	: Default
Sample Taken On	: 11/1/2011 10:10:03AM
Acquisition Started	: 11/2/2011 6:43:27AM
Procedure	: 80 Gram Pill Box
Operator	: RCT
Detector Name	: REGIE2
Geometry	: 80 Gram Pill Box
Live Time	: 1800.0 seconds
Real Time	: 1800.5 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 40 - 4096
Peak Area Range (in channels)	: 40 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 3/11/2011
Efficiency Calibration Used Done On	: 3/16/2011
Efficiency Calibration Description	: REGIE2 80gPB 031511EC SN82752-238
Sample Number	: 20753

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		0.998	1.38E+01	3.24E+00	
RA-226d	@	0.351	5.54E-01	1.72E-01	
TH-232d		0.431	3.63E-01	1.80E-01	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

Date/Time Received: 11-2-11 | ~~1240~~ 1140 11-2-11 Container GM Screen Result: (Airlock) .04 Initials [ ]
Sample GM Screen Result (Sample Receiving) .06 Initials [ ]

Client: WEH SDG #: J01317 NA [ ] SAF #: RL-110 NA [ ]

Lot Number: J1K020454

Chain of Custody # RL-110-057

Shipping Container ID: hand deliv NA [ ] Air Bill Number: NA [ ]

Samples received inside shipping container/cooler/box Yes [ ] Continue with 1 through 4. Initial appropriate response.

No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [ ]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [ ]
3. Cooler temperature: 3 °C on-Ice NA [ ]
4. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [ ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 3
7. Containers received: 3 x ~~tot~~ 11-2-11 120 mLp

8. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
9. Samples have:
   ____ tape
   ____ custody seals
   ____ hazard labels
   ____ appropriate sample labels
10. Matrix:
    ____ A (FLT, Wipe, Solid, Soil)
    ____ S (Air, Niosh 7400)
    ____ I (Water)
    ____ T (Biological, Ni-63)
11. Samples:
    ____ are in good condition
    ____ are broken
    ____ are leaking
    ____ have air bubbles (Only for samples requiring no head space)
    ____ Other
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [ ]
    (If acidification is necessary, then document sample ID, initial pH, amount of HNO_3 added and pH after addition on table overleaf)

    RPL ID # of preservative used :
13. Were any anomalies identified in sample receipt? Yes [ ] No [ ]
14. Description of anomalies (include sample numbers): NA

LS-023, Rev. 15, 07/11 See over for additional information.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

15. Sample Location, Sample Collector Listed on COC? * Yes [✓] No [ ]
*For documentation only. No corrective action needed.

16. Additional Information: _____

[ ] Client/Courier denied temperature check. [✓] Client/Courier unpack cooler.

Sample Custodian: Jessica Back / 1140 Date: 11-2-11

Client Informed on _____ by _____ Person contacted _____

[✓] No action necessary; process as is

Project Manager [signature] Date 11/2/11

SAMPLE ID	Initial pH	Acid Amt	Final pH	SAMPLE ID	Initial pH	Acid Amt	Final pH

JTK020454 RW 11/2/11

LS-023, Rev. 15, 07/11 See over for additional information.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-110-058	Page 1 of 1

Collector Q. Stowe	**Company Contact** Joan Kessner	**Telephone No.** 509-375-4688	**Project Coordinator** KESSNER, JH
Price Code 8L	**Data Turnaround** ~~21 Days~~ 24 hr 11/7/11		
Project Designation 100-H Burial Grounds Remaining Sites - Soil In-Process	**Sampling Location** 100-H-28:2 ACL Stockpiles		**SAF No.** RC-110
Ice Chest No. NA	**Field Logbook No.** EL 1627-05	**COA** 01H2822600	**Method of Shipment** Hand Deliver
Shipped To TestAmerica Incorporated, Richland	**Offsite Property No.** NA		**Bill of Lading/Air Bill No.** NA

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool at 4 deg C

J01317
~~J01322~~

J1K080500

J1K080500
Due 11-9-11

RW 11/8/11

SAMPLE ANALYSIS

Preservation	Cool 4C	None			
Type of Container	G/P	G/P			
No. of Container(s)	1	1			
Volume	120mL	60g			
	See item (1) in Special Instructions.	RCF-GEA Shipping Screen			

Sample No.	Matrix *	Sample Date	Sample Time					RCF					
J1M6J6 MNTXK	SOIL	11/7/11	1215	X				30801					
J1M6J7 MNTXL	SOIL	11/7/11	1225	X				30802					
J1M6J8 MNTXM	SOIL	11/7/11	1230	X				30803					
J1M6J9 MNTXN	SOIL	11/7/11	1235	X				30804					
J1M6K0 MNTXP	SOIL	11/7/11	1240	X				30805					

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Quincy Stowe	11/7/11 1300	JV Fullmer	11/7/11 1300
JV Fullmer	11/7/11 1610	1060 #2 A. Freier	11-7-11 1610
A. Freier 1060#2	11-8-11 1325	J. Bock TALR	11-8-11 1325

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}

REVIEWED BY DWSheer DATE 11/8/11

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

Apex™

Analysis Report for RCF30801

J1M6J6 RC-110 100H/100-H-28:2 ACL Stockpiles

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF30801
Sample Description	: J1M6J6 RC-110 100H/100-H-28:2 ACL Stockpiles
Sample Type	: 80g pillbox
Sample Size	: 8.500E+01 grams
Facility	: Default
Sample Taken On	: 11/7/2011 12:15:00PM
Acquisition Started	: 11/8/2011 6:32:47AM
Procedure	: 80 Gram Pill Box
Operator	: RCT
Detector Name	: PGTLYNX
Geometry	: 80 Gram Pill Box
Live Time	: 1800.0 seconds
Real Time	: 1801.3 seconds
Dead Time	: 0.07 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 40 - 4096
Peak Area Range (in channels)	: 40 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 3/3/2011
Efficiency Calibration Used Done On	: 3/11/2011
Efficiency Calibration Description	: PGTL 80gPB 030811EC SN82752-238
Sample Number	: 20887

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		1.000	1.40E+01	3.22E+00	
PB-212		0.711	9.01E-01	1.71E-01	
RA-226d	@	0.351	5.81E-01	1.82E-01	
TH-232d		0.421	5.29E-01	1.50E-01	

Apex™

Analysis Report for RCF30802

J1M6J7 RC-110 100H/100-H-28:2 :ACL Stockpiles

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF30802
Sample Description	: J1M6J7 RC-110 100H/100-H-28:2 :ACL Stockpiles
Sample Type	: 80g pillbox
Sample Size	: 7.400E+01 grams
Facility	: Default
Sample Taken On	: 11/7/2011 12:25:00PM
Acquisition Started	: 11/8/2011 6:32:56AM
Procedure	: 80 Gram Pill Box
Operator	: RCT
Detector Name	: REGIE2
Geometry	: 80 Gram Pill Box
Live Time	: 1800.0 seconds
Real Time	: 1800.6 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 40 - 4096
Peak Area Range (in channels)	: 40 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 3/11/2011
Efficiency Calibration Used Done On	: 3/16/2011
Efficiency Calibration Description	: REGIE2 80gPB 031511EC SN82752-238
Sample Number	: 20888

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		0.982	1.33E+01	3.44E+00	
RA-226d	@	0.349	5.06E-01	1.86E-01	

Apex™

Analysis Report for RCF30803

J1M6J8 RC-110 100H/100-H-2/:ACL Stockpiles

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF30803
Sample Description	: J1M6J8 RC-110 100H/100-H-2/:ACL Stockpiles
Sample Type	: 80g pillbox
Sample Size	: 6.700E+01 grams
Facility	: Default
Sample Taken On	: 11/7/2011 12:30:00PM
Acquisition Started	: 11/8/2011 7:04:14AM
Procedure	: 80 Gram Pill Box
Operator	: RCT
Detector Name	: PGTLYNX
Geometry	: 80 Gram Pill Box
Live Time	: 1800.0 seconds
Real Time	: 1801.4 seconds
Dead Time	: 0.08 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 40 - 4096
Peak Area Range (in channels)	: 40 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 3/3/2011
Efficiency Calibration Used Done On	: 3/11/2011
Efficiency Calibration Description	: PGTL 80gPB 030811EC SN82752-238
Sample Number	: 20882

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.999	1.39E+01	3.61E+00	
PB-212	0.709	7.19E-01	1.83E-01	

Apex™

Analysis Report for RCF30804

J1M6J9 RC-110 100H/100-H-28:2 ACL Stockpiles

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF30804
Sample Description	: J1M6J9 RC-110 100H/100-H-28:2 ACL Stockpiles
Sample Type	: 80g pillbox
Sample Size	: 6.000E+01 grams
Facility	: Default
Sample Taken On	: 11/7/2011 12:35:00PM
Acquisition Started	: 11/8/2011 7:04:24AM
Procedure	: 80 Gram Pill Box
Operator	: RCT
Detector Name	: REGIE2
Geometry	: 80 Gram Pill Box
Live Time	: 1800.0 seconds
Real Time	: 1800.5 seconds
Dead Time	: 0.03 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 40 - 4096
Peak Area Range (in channels)	: 40 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 3/11/2011
Efficiency Calibration Used Done On	: 3/16/2011
Efficiency Calibration Description	: REGIE2 80gPB 031511EC SN82752-238
Sample Number	: 20891

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.999	1.62E+01	4.41E+00	

Apex™

Analysis Report for RCF30805

J1M6K0 RC-110 100H/100-H-28:2 ACL Stockpiles

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF30805
Sample Description	: J1M6K0 RC-110 100H/100-H-28:2 ACL Stockpiles
Sample Type	: 80g pillbox
Sample Size	: 6.600E+01 grams
Facility	: Default
Sample Taken On	: 11/7/2011 12:40:00PM
Acquisition Started	: 11/8/2011 7:37:28AM
Procedure	: 80 Gram Pill Box
Operator	: RCT
Detector Name	: PGTLYNX
Geometry	: 80 Gram Pill Box
Live Time	: 1800.0 seconds
Real Time	: 1801.3 seconds
Dead Time	: 0.07 %
Peak Locate Threshold	: 3.00
Peak Locate Range (in channels)	: 40 - 4096
Peak Area Range (in channels)	: 40 - 4096
Identification Energy Tolerance	: 1.000 keV
Energy Calibration Used Done On	: 3/3/2011
Efficiency Calibration Used Done On	: 3/11/2011
Efficiency Calibration Description	: PGTL 80gPB 030811EC SN82752-238
Sample Number	: 20892

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.995	1.73E+01	4.10E+00	
TH-232d	0.429	8.06E-01	2.25E-01	

TestAmerica
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Sample Check-in List

Date/Time Received: 11-8-11 / 1325 Container GM Screen Result: (Airlock) .22 Initials [ ]
Sample GM Screen Result (Sample Receiving) .04 Initials [ ]

Client: WLH SDG #: ~~J01322~~ J01317 NA [ ] SAF #: RL-110 NA [ ]

Lot Number: J1K08D550 RW 11/8/11

Chain of Custody # RL-110-055

Shipping Container ID: hand deliv. NA [ ] Air Bill Number: _____ NA [ ]

Samples received inside shipping container/cooler/box Yes [ ] Continue with 1 through 4. Initial appropriate response.

No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [ ]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [ ]
3. Cooler temperature: 0 °C NA [ ]
4. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [ ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 5
7. Containers received: 5 x 120 ~~mLAG~~ mLP
   11-8-11
8. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
9. Samples have:
   ____ tape ____ hazard labels
   ____ custody seals ____ appropriate sample labels
10. Matrix:
    ____ A (FLT, Wipe, Solid, Soil) ____ I (Water)
    ____ S (Air, Niosh 7400) ____ T (Biological, Ni-63)
11. Samples:
    ____ are in good condition ____ are leaking
    ____ are broken ____ have air bubbles (Only for samples requiring no head space)
    ____ Other _____
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [ ]
    (If acidification is necessary, then document sample ID, initial pH, amount of HNO_3 added and pH after addition on table overleaf)

    RPL ID # of preservative used : _____
13. Were any anomalies identified in sample receipt? Yes [ ] No [ ]
14. Description of anomalies (include sample numbers): NA

LS-023, Rev. 15, 07/11 See over for additional information.

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15. Sample Location, Sample Collector Listed on COC? * Yes [✓] No [ ]
*For documentation only. No corrective action needed.

16. Additional Information: N/A

[ ] Client/Courier denied temperature check. [✓] Client/Courier unpack cooler.

Sample Custodian: [signature] 1325 Date: 11-8-11

Client Informed on _____ by _____ Person contacted _____

[✓] No action necessary; process as is

Project Manager [signature] Date 11/9/11

SAMPLE ID	Initial pH	Acid Amt	Final pH	SAMPLE ID	Initial pH	Acid Amt	Final pH

Due 11-8-11

Due 11-8-11

JTK080500 RW 11/9/11

LS-023, Rev. 15, 07/11

See over for additional information.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-110-060	Page 1 of 1

Collector K. Lucas	**Company Contact** Joan Kessner	**Telephone No.** 509-375-4688	**Project Coordinator** KESSNER, JH	**Price Code** 8L	**Data Turnaround** ~~21 Days~~ 24 hr
Project Designation 100-H Burial Grounds Remaining Sites - Soil In-Process	**Sampling Location** 100-H-28:2 ACL Stockpiles		**SAF No.** RC-110		
Ice Chest No.	**Field Logbook No.** EL 1627-05	**COA** 01H2822600	**Method of Shipment** Hand Deliver		
Shipped To TestAmerica Incorporated, Richland	**Offsite Property No.**		**Bill of Lading/Air Bill No.**		

POSSIBLE SAMPLE HAZARDS/REMARKS

None

Special Handling and/or Storage

Cool at 4 deg C

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

Sample No.	Matrix *	Sample Date	Sample Time		
J1M6X3 MNV4W	SOIL	11/9/11	1405	X	
J1M6X4 MNV4X	SOIL	11/9/11	1410	X	
J1M6X5 MNV40	SOIL	11/9/11	1415	X	
J1M6X6 MNV41	SOIL	11/9/11	1420	X	
J1M6X7 MNV42	SOIL	11/9/11	1425	X	

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
K Lucas Kenneth Lucas	11-9-11 1510	WCH MTK mstankovich	1510 11/9/11
WCH MTK mstankovich	11/9/11 1615	TARL Joan Kessner	11-9-11 1615

SPECIAL INSTRUCTIONS

(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}

SDG# J01317
Lot# J1K090474

REVIEWED BY
DATE 11-9-11

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

Sample Check-in List

Date/Time Received: 11.9.11 1615 Container GM Screen Result: (Airlock) .05 Initials [CK]
Sample GM Screen Result (Sample Receiving) .04 Initials [CK]

Client: WCH SDG #: J01317 NA [ ] SAF #: RC-110 NA [ ]

Lot Number: J11C090474

Chain of Custody # RC-110-060

Shipping Container ID: hand delivery NA [✓] Air Bill Number: NA [CK]

Samples received inside shipping container/cooler/box Yes [CK] Continue with 1 through 4. Initial appropriate response.

No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [CK]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [CK]
3. Cooler temperature: 12.5 °C On Ice NA [CK]
4. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [CK]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [CK] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 5
7. Containers received: 5

8. Sample holding times exceeded? NA [ ] Yes [ ] No [CK]
9. Samples have:
   ___ tape ___ hazard labels
   CK custody seals CK appropriate sample labels
10. Matrix:
    CK A (FLT, Wipe, Solid, Soil) ___ I (Water)
    ___ S (Air, Niosh 7400) ___ T (Biological, Ni-63)
11. Samples:
    CK are in good condition ___ are leaking
    ___ are broken ___ have air bubbles (Only for samples requiring no head space)
    ___ Other
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [CK]
    (If acidification is necessary, then document sample ID, initial pH, amount of HNO_3 added and pH after addition on table overleaf)
    RPL ID # of preservative used : N/A
13. Were any anomalies identified in sample receipt? Yes [ ] No [CK]
14. Description of anomalies (include sample numbers): NA [CK]

LS-023, Rev. 15, 07/11 See over for additional information.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

15. Sample Location, Sample Collector Listed on COC? * Yes [✓] No [ ]
*For documentation only. No corrective action needed.

16. Additional Information: _____

[ ] Client/Courier denied temperature check. [✓] Client/Courier unpack cooler.

Sample Custodian: _____ Date: 11.9.11

Client Informed on _____ by _____ Person contacted _____

[✓] No action necessary; process as is

Project Manager _____ Date 11/10/11

SAMPLE ID	Initial pH	Acid Amt	Final pH	SAMPLE ID	Initial pH	Acid Amt	Final pH

TAUK 11.9.11

TAUK 11.9.11

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See over for additional information.