0098047

SAF-RC-154
618-10 & 618-11 Field Remediation – Soil In-Process
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 8/18/11
INITIAL/DATE

RECEIVED
SEP 12 2011
EDMC

COMMENTS:

SDG J01216 SAF-RC-154

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location/Waste Site: 618-10 East Surge Trench Soil

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

SDG Number:J01216

Data Package Contains 27 Pages

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Washington Closure Hanford
2620 Fermi Avenue
Richland, WA 99354

August 17, 2011

Attention: Joan Kessner

SAF Number	:	RC-154
Date SDG Closed	:	August 9, 2011
Number of Samples	:	Twenty (20)
Sample Type	:	Soil
SDG Number	:	J01216
Data Deliverable	:	Quick Turn Metals / Summary

CASE NARRATIVE

I. Introduction

Between August 4, 2011 and August 9, 2011, twenty soil samples were received at TestAmerica for ICP metals 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
J1KN67	MLENG	SOIL	8/4/11
J1KN68	MLENJ	SOIL	8/4/11
J1KN69	MLENL	SOIL	8/4/11
J1KN70	MLENN	SOIL	8/4/11
J1KN71	MLENP	SOIL	8/4/11
J1KN72	MLENQ	SOIL	8/4/11
J1KN73	MLENR	SOIL	8/4/11
J1KN74	MLENT	SOIL	8/4/11
J1KN75	MLENV	SOIL	8/4/11
J1KN76	MLENX	SOIL	8/4/11
J1KN77	MLEN7	SOIL	8/4/11
J1KN78	MLEN8	SOIL	8/4/11
J1KN79	MLEN9	SOIL	8/4/11
J1KN80	MLEPA	SOIL	8/4/11
J1KN81	MLEPD	SOIL	8/4/11
J1KND9	MLHP6	SOIL	8/9/11
J1KNF0	MLHQF	SOIL	8/9/11
J1KNF1	MLHQJ	SOIL	8/9/11
J1KNF2	MLHQN	SOIL	8/9/11
J1KNF3	MLHQP	SOIL	8/9/11

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 J01216 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 August for the samples with the standard metal request list.

Batch 1216152:
The method blank was above the acceptance limits, all other batch QC was within the acceptance criteria. Except as noted; the LCS, batch blank, samples, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

Batch 1216155:
The LCS, batch blank, samples, sample duplicate, MS, MSD, ICB, ICV, CCB and CCV results are within contractual limits.

Batch 1221194:
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.

Washington Closure Hanford
August 17, 2011

Reviewed and approved:

Rhonda Wagar
Project Manager

Clouseau
Nonconformance Memo

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

NCM #: **10-18942**
NCM Initiated By: Britnie Clark
Date Opened: 08/08/2011
Date Closed:

Classification: **Anomaly**
Status: **PMREVIEW**
Production Area: Classical Chemistry
Tests: 6010A
Lot #'s (Sample #'s): J1H040000 (152), J1H040509 (1,10,2,3,4,5,6,7,8,9),
QC Batches: 1216152,

Nonconformance: Blank result above Contract Limit
Subcategory: Method blank contamination

Problem Description / Root Cause

Name	Date	Description
Britnie Clark	08/08/2011	The method blank was contaminated from unknown source.

Corrective Action

Name	Date	Corrective Action
Britnie Clark	08/08/2011	N/A, reported samples as is.

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

Date Printed: 8/8/2011

SDG: J01216
SAF: RC-154
BATCH: 1216152
MATRIX; SOIL
ANALYSIS DATE: 8/8/11

Client_id	Matrix	Result_ty	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits	Reporting_Lir	Uncertainty_1s	Analyzed_	Analyzed_	Decision_level_I	LCSRecov	AddedAm	Analysis_date_tim	Batch_nbr	Test_Meth	Lab_sample_id
J1KN67	SOIL	BS	7440-22-4	Ag	-2.63E+00	U	UG/G	1.08E+00	1.08E+00	1.30E-01	0.2547	G	1.04E-01			8/8/2011 8:43	1216152	46DQ	MLENG1A0
J1KN67	SOIL	BS	7440-38-2	As	2.15E+00	U	UG/G	4.24E+00	4.24E+00	7.60E-01	0.2547	G	6.24E-01			8/8/2011 8:43	1216152	46DQ	MLENG1A0
J1KN67	SOIL	BS	7440-39-3	Ba	6.10E+01		UG/G	8.83E-01	8.83E-01	3.80E-01	0.2547	G	3.15E-01			8/8/2011 8:43	1216152	46DQ	MLENG1A0
J1KN67	SOIL	BS	7440-41-7	Beryllium	2.21E-01		UG/G	1.18E-01	1.18E-01	2.10E-02	0.2547	G	1.73E-02			8/8/2011 8:43	1216152	46DQ	MLENG1A0
J1KN67	SOIL	BS	7440-43-9	Cadmium	7.34E-02	U	UG/G	1.73E+00	1.73E+00	9.40E-02	0.2547	G	7.73E-02			8/8/2011 8:43	1216152	46DQ	MLENG1A0
J1KN67	SOIL	BS	7440-47-3	Chromium	3.00E+00		UG/G	9.82E-01	9.82E-01	3.80E-02	0.2547	G	3.13E-02			8/8/2011 8:43	1216152	46DQ	MLENG1A0
J1KN67	SOIL	BS	7439-92-1	Lead	2.65E+00	U	UG/G	3.42E+00	3.42E+00	1.30E-01	0.2547	G	1.04E-01			8/8/2011 8:43	1216152	46DQ	MLENG1A0
J1KN67	SOIL	BS	7782-49-2	Se	1.89E-01	U	UG/G	8.21E+00	8.21E+00	5.80E-01	0.2547	G	4.80E-01			8/8/2011 8:43	1216152	46DQ	MLENG1A0
J1KN68	SOIL	BS	7440-22-4	Ag	-2.70E+00	U	UG/G	1.10E+00	1.10E+00	2.10E-01	0.251	G	1.71E-01			8/8/2011 8:54	1216152	46DQ	MLENJ1AA
J1KN68	SOIL	BS	7440-38-2	As	3.29E+00	U	UG/G	4.30E+00	4.30E+00	7.10E-01	0.251	G	5.86E-01			8/8/2011 8:54	1216152	46DQ	MLENJ1AA
J1KN68	SOIL	BS	7440-39-3	Ba	5.37E+01		UG/G	8.96E-01	8.96E-01	2.80E-01	0.251	G	2.32E-01			8/8/2011 8:54	1216152	46DQ	MLENJ1AA
J1KN68	SOIL	BS	7440-41-7	Beryllium	2.00E-01		UG/G	1.20E-01	1.20E-01	9.80E-03	0.251	G	8.07E-03			8/8/2011 8:54	1216152	46DQ	MLENJ1AA
J1KN68	SOIL	BS	7440-43-9	Cadmium	1.03E-01	U	UG/G	1.75E+00	1.75E+00	2.90E-02	0.251	G	2.35E-02			8/8/2011 8:54	1216152	46DQ	MLENJ1AA
J1KN68	SOIL	BS	7440-47-3	Chromium	2.76E+00		UG/G	9.96E-01	9.96E-01	4.60E-02	0.251	G	3.75E-02			8/8/2011 8:54	1216152	46DQ	MLENJ1AA
J1KN68	SOIL	BS	7439-92-1	Lead	2.19E+00	U	UG/G	3.47E+00	3.47E+00	4.00E-01	0.251	G	3.25E-01			8/8/2011 8:54	1216152	46DQ	MLENJ1AA
J1KN68	SOIL	BS	7782-49-2	Se	2.65E-01	U	UG/G	8.33E+00	8.33E+00	1.00E+00	0.251	G	8.36E-01			8/8/2011 8:54	1216152	46DQ	MLENJ1AA
J1KN69	SOIL	BS	7440-22-4	Ag	-2.58E+00	U	UG/G	1.06E+00	1.06E+00	1.80E-01	0.2588	G	1.50E-01			8/8/2011 8:57	1216152	46DQ	MLENL1AA
J1KN69	SOIL	BS	7440-38-2	As	2.31E+00	U	UG/G	4.17E+00	4.17E+00	1.00E+00	0.2588	G	8.34E-01			8/8/2011 8:57	1216152	46DQ	MLENL1AA
J1KN69	SOIL	BS	7440-39-3	Ba	6.12E+01		UG/G	8.69E-01	8.69E-01	5.10E-01	0.2588	G	4.20E-01			8/8/2011 8:57	1216152	46DQ	MLENL1AA
J1KN69	SOIL	BS	7440-41-7	Beryllium	2.21E-01		UG/G	1.16E-01	1.16E-01	6.20E-03	0.2588	G	5.09E-03			8/8/2011 8:57	1216152	46DQ	MLENL1AA
J1KN69	SOIL	BS	7440-43-9	Cadmium	9.64E-02	U	UG/G	1.70E+00	1.70E+00	7.50E-02	0.2588	G	6.14E-02			8/8/2011 8:57	1216152	46DQ	MLENL1AA
J1KN69	SOIL	BS	7440-47-3	Chromium	2.82E+00		UG/G	9.66E-01	9.66E-01	1.70E-01	0.2588	G	1.37E-01			8/8/2011 8:57	1216152	46DQ	MLENL1AA
J1KN69	SOIL	BS	7439-92-1	Lead	2.68E+00	U	UG/G	3.36E+00	3.36E+00	3.40E-01	0.2588	G	2.76E-01			8/8/2011 8:57	1216152	46DQ	MLENL1AA
J1KN69	SOIL	BS	7782-49-2	Se	1.17E-01	U	UG/G	8.08E+00	8.08E+00	8.40E-01	0.2588	G	6.94E-01			8/8/2011 8:57	1216152	46DQ	MLENL1AA
J1KN70	SOIL	BS	7440-22-4	Ag	-2.58E+00	U	UG/G	1.10E+00	1.10E+00	9.30E-02	0.2507	G	7.63E-02			8/8/2011 8:59	1216152	46DQ	MLENN1AA
J1KN70	SOIL	BS	7440-38-2	As	2.33E+00	U	UG/G	4.31E+00	4.31E+00	4.90E-01	0.2507	G	4.00E-01			8/8/2011 8:59	1216152	46DQ	MLENN1AA
J1KN70	SOIL	BS	7440-39-3	Ba	6.30E+01		UG/G	8.97E-01	8.97E-01	1.80E-01	0.2507	G	1.47E-01			8/8/2011 8:59	1216152	46DQ	MLENN1AA
J1KN70	SOIL	BS	7440-41-7	Beryllium	2.12E-01		UG/G	1.20E-01	1.20E-01	8.80E-03	0.2507	G	7.20E-03			8/8/2011 8:59	1216152	46DQ	MLENN1AA
J1KN70	SOIL	BS	7440-43-9	Cadmium	9.35E-02	U	UG/G	1.76E+00	1.76E+00	1.30E-02	0.2507	G	1.03E-02			8/8/2011 8:59	1216152	46DQ	MLENN1AA
J1KN70	SOIL	BS	7440-47-3	Chromium	2.94E+00		UG/G	9.97E-01	9.97E-01	1.20E-01	0.2507	G	1.01E-01			8/8/2011 8:59	1216152	46DQ	MLENN1AA
J1KN70	SOIL	BS	7439-92-1	Lead	2.44E+00	U	UG/G	3.47E+00	3.47E+00	5.00E-01	0.2507	G	4.15E-01			8/8/2011 8:59	1216152	46DQ	MLENN1AA
J1KN70	SOIL	BS	7782-49-2	Se	7.72E-02	U	UG/G	8.34E+00	8.34E+00	7.50E-01	0.2507	G	6.20E-01			8/8/2011 8:59	1216152	46DQ	MLENN1AA
J1KN71	SOIL	BS	7440-22-4	Ag	-2.60E+00	U	UG/G	1.07E+00	1.07E+00	1.20E-01	0.2565	G	9.87E-02			8/8/2011 9:22	1216152	46DQ	MLENP1AA
J1KN71	SOIL	BS	7440-38-2	As	1.99E+00	U	UG/G	4.21E+00	4.21E+00	2.60E-01	0.2565	G	2.16E-01			8/8/2011 9:22	1216152	46DQ	MLENP1AA
J1KN71	SOIL	BS	7440-39-3	Ba	5.75E+01		UG/G	8.77E-01	8.77E-01	5.20E-01	0.2565	G	4.30E-01			8/8/2011 9:22	1216152	46DQ	MLENP1AA
J1KN71	SOIL	BS	7440-41-7	Beryllium	1.98E-01		UG/G	1.17E-01	1.17E-01	1.40E-02	0.2565	G	1.15E-02			8/8/2011 9:22	1216152	46DQ	MLENP1AA
J1KN71	SOIL	BS	7440-43-9	Cadmium	7.71E-02	U	UG/G	1.72E+00	1.72E+00	8.80E-02	0.2565	G	7.21E-02			8/8/2011 9:22	1216152	46DQ	MLENP1AA
J1KN71	SOIL	BS	7440-47-3	Chromium	2.37E+00		UG/G	9.75E-01	9.75E-01	7.80E-02	0.2565	G	6.41E-02			8/8/2011 9:22	1216152	46DQ	MLENP1AA
J1KN71	SOIL	BS	7439-92-1	Lead	2.10E+00	U	UG/G	3.39E+00	3.39E+00	1.80E-01	0.2565	G	1.47E-01			8/8/2011 9:22	1216152	46DQ	MLENP1AA
J1KN71	SOIL	BS	7782-49-2	Se	8.71E-01	U	UG/G	8.15E+00	8.15E+00	5.90E-01	0.2565	G	4.81E-01			8/8/2011 9:22	1216152	46DQ	MLENP1AA
J1KN72	SOIL	BS	7440-22-4	Ag	-2.74E+00	U	UG/G	1.08E+00	1.08E+00	2.60E-01	0.2537	G	2.12E-01			8/8/2011 9:25	1216152	46DQ	MLENQ1AA
J1KN72	SOIL	BS	7440-38-2	As	1.51E+00	U	UG/G	4.26E+00	4.26E+00	6.70E-01	0.2537	G	5.50E-01			8/8/2011 9:25	1216152	46DQ	MLENQ1AA
J1KN72	SOIL	BS	7440-39-3	Ba	5.32E+01		UG/G	8.87E-01	8.87E-01	3.80E-01	0.2537	G	3.14E-01			8/8/2011 9:25	1216152	46DQ	MLENQ1AA
J1KN72	SOIL	BS	7440-41-7	Beryllium	1.86E-01		UG/G	1.18E-01	1.18E-01	2.50E-02	0.2537	G	2.05E-02			8/8/2011 9:25	1216152	46DQ	MLENQ1AA
J1KN72	SOIL	BS	7440-43-9	Cadmium	8.37E-02	U	UG/G	1.73E+00	1.73E+00	5.40E-02	0.2537	G	4.41E-02			8/8/2011 9:25	1216152	46DQ	MLENQ1AA
J1KN72	SOIL	BS	7440-47-3	Chromium	3.24E+00		UG/G	9.85E-01	9.85E-01	1.60E-01	0.2537	G	1.31E-01			8/8/2011 9:25	1216152	46DQ	MLENQ1AA
J1KN72	SOIL	BS	7439-92-1	Lead	2.14E+00	U	UG/G	3.43E+00	3.43E+00	4.00E-01	0.2537	G	3.31E-01			8/8/2011 9:25	1216152	46DQ	MLENQ1AA
J1KN72	SOIL	BS	7782-49-2	Se	1.42E-01	U	UG/G	8.24E+00	8.24E+00	1.90E-01	0.2537	G	1.57E-01			8/8/2011 9:25	1216152	46DQ	MLENQ1AA
J1KN73	SOIL	BS	7440-22-4	Ag	-2.95E+00	U	UG/G	1.07E+00	1.07E+00	8.40E-02	0.2581	G	6.93E-02			8/8/2011 9:27	1216152	46DQ	MLENR1AA
J1KN73	SOIL	BS	7440-38-2	As	1.77E+00	U	UG/G	4.18E+00	4.18E+00	7.30E-01	0.2581	G	6.03E-01			8/8/2011 9:27	1216152	46DQ	MLENR1AA
J1KN73	SOIL	BS	7440-39-3	Ba	6.06E+01		UG/G	8.72E-01	8.72E-01	5.40E-01	0.2581	G	4.41E-01			8/8/2011 9:27	1216152	46DQ	MLENR1AA
J1KN73	SOIL	BS	7440-41-7	Beryllium	1.96E-01		UG/G	1.16E-01	1.16E-01	3.20E-03	0.2581	G	2.64E-03			8/8/2011 9:27	1216152	46DQ	MLENR1AA
J1KN73	SOIL	BS	7440-43-9	Cadmium	8.02E-02	U	UG/G	1.70E+00	1.70E+00	8.20E-02	0.2581	G	6.73E-02			8/8/2011 9:27	1216152	46DQ	MLENR1AA
J1KN73	SOIL	BS	7440-47-3	Chromium	3.20E+00		UG/G	9.69E-01	9.69E-01	1.30E-01	0.2581	G	1.09E-01			8/8/2011 9:27	1216152	46DQ	MLENR1AA
J1KN73	SOIL	BS	7439-92-1	Lead	2.11E+00	U	UG/G	3.37E+00	3.37E+00	2.20E-01	0.2581	G	1.77E-01			8/8/2011 9:27	1216152	46DQ	MLENR1AA
J1KN73	SOIL	BS	7782-49-2	Se	3.51E-01	U	UG/G	8.10E+00	8.10E+00	1.10E+00	0.2581	G	9.40E-01			8/8/2011 9:27	1216152	46DQ	MLENR1AA
J1KN74	SOIL	BS	7440-22-4	Ag	-2.58E+00	U	UG/G	1.09E+00	1.09E+00	1.10E-01	0.2517	G	8.80E-02			8/8/2011 9:30	1216152	46DQ	MLENT1AA
J1KN74	SOIL	BS	7440-38-2	As	2.62E+00	U	UG/G	4.29E+00	4.29E+00	1.30E+00	0.2517	G	1.11E+00			8/8/2011 9:30	1216152	46DQ	MLENT1AA
J1KN74	SOIL	BS	7440-39-3	Ba	5.47E+01		UG/G	8.94E-01	8.94E-01	9.40E-02	0.2517	G	7.74E-02			8/8/2011 9:30	1216152	46DQ	MLENT1AA
J1KN74	SOIL	BS	7440-41-7	Beryllium	2.14E-01		UG/G	1.19E-01	1.19E-01	6.30E-03	0.2517	G	5.16E-03			8/8/2011 9:30	1216152	46DQ	MLENT1AA
J1KN74	SOIL	BS	7440-43-9	Cadmium	7.28E-02	U	UG/G	1.75E+00	1.75E+00	6.50E-02	0.2517	G	5.34E-02			8/8/2011 9:30	1216152	46DQ	MLENT1AA
J1KN74	SOIL	BS	7440-47-3	Chromium	2.51E+00		UG/G	9.93E-01	9.93E-01	1.90E-01	0.2517	G	1.59E-01			8/8/2011 9:30	1216152	46DQ	MLENT1AA
J1KN74	SOIL	BS	7439-92-1	Lead	2.22E+00	U	UG/G	3.46E+00	3.46E+00	3.90E-01	0.2517	G	3.21E-01			8/8/2011 9:30	1216152	46DQ	MLENT1AA
J1KN74	SOIL	BS	7782-49-2	Se	5.17E-01	U	UG/G	8.30E+00	8.30E+00	2.60E-02	0.2517	G	2.10E-02			8/8/2011 9:30	1216152	46DQ	MLENT1AA
J1KN75	SOIL	BS	7440-22-4	Ag	-2.66E+00	U	UG/G	1.08E+00	1.08E+00	2.80E-01	0.2549	G	2.29E-01			8/8/2011 9:33	1216152	46DQ	MLENV1AA
J1KN75	SOIL	BS	7440-38-2	As	1.69E+00	U	UG/G	4.24E+00	4.24E+00	6.10E-01	0.2549	G	5.00E-01			8/8/2011 9:33	1216152	46DQ	MLENV1AA
J1KN75	SOIL	BS	7440-39-3	Ba	6.18E+01		UG/G	8.83E-01	8.83E-01	7.90E-01	0.2549	G	6.47E-01			8/8/2011 9:33	1216152	46DQ	MLENV1AA
J1KN75	SOIL	BS	7440-41-7	Beryllium	2.24E-01		UG/G	1.18E-01	1.18E-01	6.20E-03	0.2549	G	5.09E-03			8/8/2011 9:33	1216152	46DQ	MLENV1AA
J1KN75	SOIL	BS	7440-43-9	Cadmium	8.62E-02	U	UG/G	1.73E+00	1.73E+00	1.20E-02	0.2549	G	9.61E-03			8/8/2011 9:33	1216152	46DQ	MLENV1AA

Client_id	Matrix	Result_ty	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits	Reporting_Lir	Uncertainty_1s	Analyzed_	Analyzed_	Decision_level_I	LCSReco	AddedAn	Analysis_date_tim	Batch_nbr	Test_Meth	Lab_sample_id
J1KN75	SOIL	BS	7440-47-3	Chromium	3.21E+00		UG/G	9.81E-01	9.81E-01	1.20E-01	0.2549	G	1.00E-01			8/8/2011 9:33	1216152	46DQ	MLENV1AA
J1KN75	SOIL	BS	7439-92-1	Lead	2.59E+00	U	UG/G	3.41E+00	3.41E+00	2.40E-01	0.2549	G	1.95E-01			8/8/2011 9:33	1216152	46DQ	MLENV1AA
J1KN75	SOIL	BS	7782-49-2	Se	7.87E-01	U	UG/G	8.20E+00	8.20E+00	1.20E+00	0.2549	G	9.78E-01			8/8/2011 9:33	1216152	46DQ	MLENV1AA
J1KN76	SOIL	BS	7440-22-4	Ag	-2.61E+00	U	UG/G	1.07E+00	1.07E+00	5.10E-01	0.2573	G	4.20E-01			8/8/2011 9:35	1216152	46DQ	MLENX1AA
J1KN76	SOIL	BS	7440-38-2	As	1.43E+00	U	UG/G	4.20E+00	4.20E+00	9.10E-01	0.2573	G	7.52E-01			8/8/2011 9:35	1216152	46DQ	MLENX1AA
J1KN76	SOIL	BS	7440-39-3	Ba	5.88E+01		UG/G	8.74E-01	8.74E-01	3.80E+00	0.2573	G	3.15E+00			8/8/2011 9:35	1216152	46DQ	MLENX1AA
J1KN76	SOIL	BS	7440-41-7	Beryllium	2.34E-01		UG/G	1.17E-01	1.17E-01	5.50E-03	0.2573	G	4.50E-03			8/8/2011 9:35	1216152	46DQ	MLENX1AA
J1KN76	SOIL	BS	7440-43-9	Cadmium	9.82E-02	U	UG/G	1.71E+00	1.71E+00	7.80E-02	0.2573	G	6.39E-02			8/8/2011 9:35	1216152	46DQ	MLENX1AA
J1KN76	SOIL	BS	7440-47-3	Chromium	3.43E+00		UG/G	9.72E-01	9.72E-01	4.30E-02	0.2573	G	3.56E-02			8/8/2011 9:35	1216152	46DQ	MLENX1AA
J1KN76	SOIL	BS	7439-92-1	Lead	2.50E+00	U	UG/G	3.38E+00	3.38E+00	4.40E-01	0.2573	G	3.58E-01			8/8/2011 9:35	1216152	46DQ	MLENX1AA
J1KN76	SOIL	BS	7782-49-2	Se	2.22E-01	U	UG/G	8.12E+00	8.12E+00	2.80E-01	0.2573	G	2.34E-01			8/8/2011 9:35	1216152	46DQ	MLENX1AA
INTRA-LAI	SOIL	BLK	7440-22-4	Ag	-8.92E-03	U	MG/L	5.50E-03	5.50E-03	1.10E-03	1	L	8.85E-04			8/8/2011 9:41	1216152	46DQ	MLEP51AA
INTRA-LAI	SOIL	BLK	7440-38-2	As	-9.42E-04	U	MG/L	2.16E-02	2.16E-02	2.70E-03	1	L	2.22E-03			8/8/2011 9:41	1216152	46DQ	MLEP51AA
INTRA-LAI	SOIL	BLK	7440-39-3	Ba	-1.27E-04	U	MG/L	4.50E-03	4.50E-03	3.20E-05	1	L	2.60E-05			8/8/2011 9:41	1216152	46DQ	MLEP51AA
INTRA-LAI	SOIL	BLK	7440-41-7	Beryllium	1.31E-04	U	MG/L	6.00E-04	6.00E-04	5.00E-05	1	L	4.08E-05			8/8/2011 9:41	1216152	46DQ	MLEP51AA
INTRA-LAI	SOIL	BLK	7440-43-9	Cadmium	4.82E-05	U	MG/L	8.80E-03	8.80E-03	2.30E-04	1	L	1.86E-04			8/8/2011 9:41	1216152	46DQ	MLEP51AA
INTRA-LAI	SOIL	BLK	7440-47-3	Chromium	-7.26E-04	U	MG/L	5.00E-03	5.00E-03	8.50E-04	1	L	7.00E-04			8/8/2011 9:41	1216152	46DQ	MLEP51AA
INTRA-LAI	SOIL	BLK	7439-92-1	Lead	-1.53E-03	U	MG/L	1.74E-02	1.74E-02	1.80E-03	1	L	1.47E-03			8/8/2011 9:41	1216152	46DQ	MLEP51AA
INTRA-LAI	SOIL	BLK	7782-49-2	Se	-8.93E-05	U	MG/L	4.18E-02	4.18E-02	3.40E-03	1	L	2.80E-03			8/8/2011 9:41	1216152	46DQ	MLEP51AA
INTRA-LAI	SOIL	LCS	7440-22-4	Ag	9.05E-01		MG/L	5.50E-03	5.50E-03	6.30E-03	1	L	5.15E-03	0.9	1	8/8/2011 8:38	1216152	46DQ	MLEP51AA
INTRA-LAI	SOIL	LCS	7440-38-2	As	9.31E-01		MG/L	2.16E-02	2.16E-02	3.10E-03	1	L	2.59E-03	0.93	1	8/8/2011 8:38	1216152	46DQ	MLEP51AA
INTRA-LAI	SOIL	LCS	7440-39-3	Ba	9.47E-01		MG/L	4.50E-03	4.50E-03	2.60E-02	1	L	2.14E-02	0.95	1	8/8/2011 8:38	1216152	46DQ	MLEP51AA
INTRA-LAI	SOIL	LCS	7440-41-7	Beryllium	9.57E-01		MG/L	6.00E-04	6.00E-04	8.40E-03	1	L	6.88E-03	0.96	1	8/8/2011 8:38	1216152	46DQ	MLEP51AA
INTRA-LAI	SOIL	LCS	7440-43-9	Cadmium	9.21E-01		MG/L	8.80E-03	8.80E-03	2.20E-03	1	L	1.83E-03	0.92	1	8/8/2011 8:38	1216152	46DQ	MLEP51AA
INTRA-LAI	SOIL	LCS	7440-47-3	Chromium	9.41E-01		MG/L	5.00E-03	5.00E-03	6.50E-03	1	L	5.37E-03	0.94	1	8/8/2011 8:38	1216152	46DQ	MLEP51AA
INTRA-LAI	SOIL	LCS	7439-92-1	Lead	9.14E-01		MG/L	1.74E-02	1.74E-02	3.90E-03	1	L	3.19E-03	0.91	1	8/8/2011 8:38	1216152	46DQ	MLEP51AA
INTRA-LAI	SOIL	LCS	7782-49-2	Se	8.87E-01		MG/L	4.18E-02	4.18E-02	5.00E-03	1	L	4.13E-03	0.89	1	8/8/2011 8:38	1216152	46DQ	MLEP51AA
J1KN67 DL	SOIL	DUP	7440-22-4	Ag	-2.66E+00	U	UG/G	1.07E+00	1.07E+00	2.70E-01	0.2573	G	2.22E-01			8/8/2011 8:51	1216152	46DQ	MLENG1A0
J1KN67 DL	SOIL	DUP	7440-38-2	As	2.45E+00	U	UG/G	4.20E+00	4.20E+00	1.10E+00	0.2573	G	9.24E-01			8/8/2011 8:51	1216152	46DQ	MLENG1A0
J1KN67 DL	SOIL	DUP	7440-39-3	Ba	5.97E+01		UG/G	8.74E-01	8.74E-01	1.80E-01	0.2573	G	1.49E-01			8/8/2011 8:51	1216152	46DQ	MLENG1A0
J1KN67 DL	SOIL	DUP	7440-41-7	Beryllium	2.50E-01		UG/G	1.17E-01	1.17E-01	5.00E-02	0.2573	G	4.13E-02			8/8/2011 8:51	1216152	46DQ	MLENG1A0
J1KN67 DL	SOIL	DUP	7440-43-9	Cadmium	8.28E-02	U	UG/G	1.71E+00	1.71E+00	6.90E-02	0.2573	G	5.67E-02			8/8/2011 8:51	1216152	46DQ	MLENG1A0
J1KN67 DL	SOIL	DUP	7440-47-3	Chromium	3.24E+00		UG/G	9.72E-01	9.72E-01	2.40E-01	0.2573	G	1.94E-01			8/8/2011 8:51	1216152	46DQ	MLENG1A0
J1KN67 DL	SOIL	DUP	7439-92-1	Lead	2.30E+00	U	UG/G	3.38E+00	3.38E+00	2.50E-01	0.2573	G	2.03E-01			8/8/2011 8:51	1216152	46DQ	MLENG1A0
J1KN67 DL	SOIL	DUP	7782-49-2	Se	5.20E-01	U	UG/G	8.12E+00	8.12E+00	1.10E-01	0.2573	G	8.66E-02			8/8/2011 8:51	1216152	46DQ	MLENG1A0
J1KN67	SOIL	MS	7440-22-4	Ag	1.70E+02		% REC	1.09E+00	1.09E+00	1.30E+00	0.2531	L	1.09E+00	0.86	197.6	8/8/2011 8:46	1216152	46DQ	MLENG1A0
J1KN67	SOIL	MS	7440-38-2	As	1.76E+02		% REC	4.27E+00	4.27E+00	1.90E+00	0.2531	L	1.54E+00	0.9	195.2	8/8/2011 8:46	1216152	46DQ	MLENG1A0
J1KN67	SOIL	MS	7440-39-3	Ba	1.71E+02		% REC	8.89E-01	8.89E-01	2.30E+00	0.2531	L	1.89E+00	1.18	145.4	8/8/2011 8:46	1216152	46DQ	MLENG1A0
J1KN67	SOIL	MS	7440-41-7	Beryllium	1.86E+02		% REC	1.19E-01	1.19E-01	2.40E+00	0.2531	L	1.94E+00	0.94	197.3	8/8/2011 8:46	1216152	46DQ	MLENG1A0
J1KN67	SOIL	MS	7440-43-9	Cadmium	1.76E+02		% REC	1.74E+00	1.74E+00	1.10E+00	0.2531	L	8.80E-01	0.89	197.4	8/8/2011 8:46	1216152	46DQ	MLENG1A0
J1KN67	SOIL	MS	7440-47-3	Chromium	1.73E+02		% REC	9.88E-01	9.88E-01	1.40E+00	0.2531	L	1.19E+00	0.91	190.4	8/8/2011 8:46	1216152	46DQ	MLENG1A0
J1KN67	SOIL	MS	7439-92-1	Lead	1.68E+02		% REC	3.44E+00	3.44E+00	8.60E-01	0.2531	L	7.09E-01	0.86	194.4	8/8/2011 8:46	1216152	46DQ	MLENG1A0
J1KN67	SOIL	MS	7782-49-2	Se	1.69E+02		% REC	8.26E+00	8.26E+00	1.70E+00	0.2531	L	1.36E+00	0.85	197.3	8/8/2011 8:46	1216152	46DQ	MLENG1A0
J1KN67	SOIL	MSD	7440-22-4	Ag	1.65E+02		% REC	1.09E+00	1.09E+00	1.00E+01	0.2521	L	8.22E+00	0.83	198.3	8/8/2011 8:49	1216152	46DQ	MLENG1A0
J1KN67	SOIL	MSD	7440-38-2	As	1.74E+02		% REC	4.28E+00	4.28E+00	1.90E+00	0.2521	L	1.60E+00	0.89	195.9	8/8/2011 8:49	1216152	46DQ	MLENG1A0
J1KN67	SOIL	MSD	7440-39-3	Ba	1.68E+02		% REC	8.93E-01	8.93E-01	6.20E+00	0.2521	L	5.08E+00	1.16	145.1	8/8/2011 8:49	1216152	46DQ	MLENG1A0
J1KN67	SOIL	MSD	7440-41-7	Beryllium	1.80E+02		% REC	1.19E-01	1.19E-01	1.30E+01	0.2521	L	1.04E+01	0.91	198.1	8/8/2011 8:49	1216152	46DQ	MLENG1A0
J1KN67	SOIL	MSD	7440-43-9	Cadmium	1.74E+02		% REC	1.75E+00	1.75E+00	1.50E+00	0.2521	L	1.25E+00	0.88	198.2	8/8/2011 8:49	1216152	46DQ	MLENG1A0
J1KN67	SOIL	MSD	7440-47-3	Chromium	1.69E+02		% REC	9.92E-01	9.92E-01	1.20E+01	0.2521	L	9.66E+00	0.88	191	8/8/2011 8:49	1216152	46DQ	MLENG1A0
J1KN67	SOIL	MSD	7439-92-1	Lead	1.65E+02		% REC	3.45E+00	3.45E+00	1.20E+00	0.2521	L	9.47E-01	0.85	195.1	8/8/2011 8:49	1216152	46DQ	MLENG1A0
J1KN67	SOIL	MSD	7782-49-2	Se	1.66E+02		% REC	8.29E+00	8.29E+00	4.90E-01	0.2521	L	4.02E-01	0.84	198.1	8/8/2011 8:49	1216152	46DQ	MLENG1A0

SDG: J01216
SAF: RC-154
BATCH: 1216155
MATRIX: SOIL
ANALYSIS DATE: 8/05/11

Client_id	Matrix	Result_t	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_:	Reporting_Limits	Uncertainty_1s	Analyzed_sa	Analyzed_s	Decision_level_LCS	Recovery	AddedAr	Analysis_date_tin	Batch_nbr	Test_Method	Lab_sample_id
J1KN77	SOIL	BS	7440-22-4	Ag	-1.77E+00	U	UG/G	1.09E+00	1.09E+00	2.20E-01	0.2533	G	1.84E-01			8/5/2011 13:15	1216155	46DQ	MLEN71A0
J1KN77	SOIL	BS	7440-38-2	As	3.05E+00	U	UG/G	4.26E+00	4.26E+00	7.00E-01	0.2533	G	5.76E-01			8/5/2011 13:15	1216155	46DQ	MLEN71A0
J1KN77	SOIL	BS	7440-39-3	Ba	5.28E+01		UG/G	8.88E-01	8.88E-01	5.50E-01	0.2533	G	4.54E-01			8/5/2011 13:15	1216155	46DQ	MLEN71A0
J1KN77	SOIL	BS	7440-41-7	Beryllium	1.87E-01		UG/G	1.18E-01	1.18E-01	1.40E-02	0.2533	G	1.19E-02			8/5/2011 13:15	1216155	46DQ	MLEN71A0
J1KN77	SOIL	BS	7440-43-9	Cadmium	1.17E-01	U	UG/G	1.74E+00	1.74E+00	4.40E-02	0.2533	G	3.65E-02			8/5/2011 13:15	1216155	46DQ	MLEN71A0
J1KN77	SOIL	BS	7440-47-3	Chromium	2.69E+00		UG/G	9.87E-01	9.87E-01	1.80E-01	0.2533	G	1.47E-01			8/5/2011 13:15	1216155	46DQ	MLEN71A0
J1KN77	SOIL	BS	7439-92-1	Lead	2.36E+00	U	UG/G	3.43E+00	3.43E+00	3.90E-01	0.2533	G	3.17E-01			8/5/2011 13:15	1216155	46DQ	MLEN71A0
J1KN77	SOIL	BS	7782-49-2	Se	2.15E-02	U	UG/G	8.25E+00	8.25E+00	7.40E-01	0.2533	G	6.05E-01			8/5/2011 13:15	1216155	46DQ	MLEN71A0
J1KN78	SOIL	BS	7440-22-4	Ag	-1.45E+00	U	UG/G	1.07E+00	1.07E+00	1.70E-01	0.2569	G	1.43E-01			8/5/2011 13:26	1216155	46DQ	MLEN81AA
J1KN78	SOIL	BS	7440-38-2	As	2.25E+00	U	UG/G	4.20E+00	4.20E+00	2.60E-01	0.2569	G	2.15E-01			8/5/2011 13:26	1216155	46DQ	MLEN81AA
J1KN78	SOIL	BS	7440-39-3	Ba	8.99E+01		UG/G	8.76E-01	8.76E-01	9.10E-01	0.2569	G	7.48E-01			8/5/2011 13:26	1216155	46DQ	MLEN81AA
J1KN78	SOIL	BS	7440-41-7	Beryllium	2.07E-01		UG/G	1.17E-01	1.17E-01	8.40E-03	0.2569	G	6.90E-03			8/5/2011 13:26	1216155	46DQ	MLEN81AA
J1KN78	SOIL	BS	7440-43-9	Cadmium	1.18E-01	U	UG/G	1.71E+00	1.71E+00	4.90E-02	0.2569	G	4.05E-02			8/5/2011 13:26	1216155	46DQ	MLEN81AA
J1KN78	SOIL	BS	7440-47-3	Chromium	3.79E+00		UG/G	9.73E-01	9.73E-01	1.90E-01	0.2569	G	1.57E-01			8/5/2011 13:26	1216155	46DQ	MLEN81AA
J1KN78	SOIL	BS	7439-92-1	Lead	2.54E+00	U	UG/G	3.39E+00	3.39E+00	5.50E-01	0.2569	G	4.55E-01			8/5/2011 13:26	1216155	46DQ	MLEN81AA
J1KN78	SOIL	BS	7782-49-2	Se	3.82E-01	U	UG/G	8.14E+00	8.14E+00	3.10E-01	0.2569	G	2.55E-01			8/5/2011 13:26	1216155	46DQ	MLEN81AA
J1KN79	SOIL	BS	7440-22-4	Ag	-1.71E+00	U	UG/G	1.07E+00	1.07E+00	3.50E-02	0.256	G	2.88E-02			8/5/2011 13:28	1216155	46DQ	MLEN91AA
J1KN79	SOIL	BS	7440-38-2	As	2.21E+00	U	UG/G	4.22E+00	4.22E+00	1.60E-01	0.256	G	1.30E-01			8/5/2011 13:28	1216155	46DQ	MLEN91AA
J1KN79	SOIL	BS	7440-39-3	Ba	5.09E+01		UG/G	8.79E-01	8.79E-01	3.50E-01	0.256	G	2.85E-01			8/5/2011 13:28	1216155	46DQ	MLEN91AA
J1KN79	SOIL	BS	7440-41-7	Beryllium	2.04E-01		UG/G	1.17E-01	1.17E-01	7.20E-03	0.256	G	5.91E-03			8/5/2011 13:28	1216155	46DQ	MLEN91AA
J1KN79	SOIL	BS	7440-43-9	Cadmium	1.18E-01	U	UG/G	1.72E+00	1.72E+00	1.60E-02	0.256	G	1.31E-02			8/5/2011 13:28	1216155	46DQ	MLEN91AA
J1KN79	SOIL	BS	7440-47-3	Chromium	3.31E+00		UG/G	9.77E-01	9.77E-01	1.80E-01	0.256	G	1.49E-01			8/5/2011 13:28	1216155	46DQ	MLEN91AA
J1KN79	SOIL	BS	7439-92-1	Lead	2.87E+00	U	UG/G	3.40E+00	3.40E+00	3.20E-01	0.256	G	2.66E-01			8/5/2011 13:28	1216155	46DQ	MLEN91AA
J1KN79	SOIL	BS	7782-49-2	Se	1.15E-01	U	UG/G	8.16E+00	8.16E+00	4.60E-01	0.256	G	3.77E-01			8/5/2011 13:28	1216155	46DQ	MLEN91AA
J1KN80	SOIL	BS	7440-22-4	Ag	-2.84E+00	U	UG/G	1.09E+00	1.09E+00	1.40E-01	0.2533	G	1.13E-01			8/5/2011 13:31	1216155	46DQ	MLEPA1AA
J1KN80	SOIL	BS	7440-38-2	As	2.59E+00	U	UG/G	4.26E+00	4.26E+00	2.40E-01	0.2533	G	1.99E-01			8/5/2011 13:31	1216155	46DQ	MLEPA1AA
J1KN80	SOIL	BS	7440-39-3	Ba	1.03E+02		UG/G	8.88E-01	8.88E-01	1.20E+00	0.2533	G	9.73E-01			8/5/2011 13:31	1216155	46DQ	MLEPA1AA
J1KN80	SOIL	BS	7440-41-7	Beryllium	2.00E-01		UG/G	1.18E-01	1.18E-01	9.90E-03	0.2533	G	8.10E-03			8/5/2011 13:31	1216155	46DQ	MLEPA1AA
J1KN80	SOIL	BS	7440-43-9	Cadmium	9.94E-02	U	UG/G	1.74E+00	1.74E+00	3.80E-02	0.2533	G	3.14E-02			8/5/2011 13:31	1216155	46DQ	MLEPA1AA
J1KN80	SOIL	BS	7440-47-3	Chromium	4.54E+00		UG/G	9.87E-01	9.87E-01	1.40E-01	0.2533	G	1.17E-01			8/5/2011 13:31	1216155	46DQ	MLEPA1AA
J1KN80	SOIL	BS	7439-92-1	Lead	2.80E+00	U	UG/G	3.43E+00	3.43E+00	7.40E-01	0.2533	G	6.12E-01			8/5/2011 13:31	1216155	46DQ	MLEPA1AA
J1KN80	SOIL	BS	7782-49-2	Se	2.72E-01	U	UG/G	8.25E+00	8.25E+00	1.10E+00	0.2533	G	9.43E-01			8/5/2011 13:31	1216155	46DQ	MLEPA1AA
J1KN81	SOIL	BS	7440-22-4	Ag	-1.39E+00	U	UG/G	1.10E+00	1.10E+00	9.10E-02	0.2509	G	7.46E-02			8/5/2011 13:34	1216155	46DQ	MLEPD1AA
J1KN81	SOIL	BS	7440-38-2	As	2.58E+00	U	UG/G	4.30E+00	4.30E+00	3.60E-01	0.2509	G	2.95E-01			8/5/2011 13:34	1216155	46DQ	MLEPD1AA
J1KN81	SOIL	BS	7440-39-3	Ba	4.95E+01		UG/G	8.97E-01	8.97E-01	1.90E-01	0.2509	G	1.55E-01			8/5/2011 13:34	1216155	46DQ	MLEPD1AA
J1KN81	SOIL	BS	7440-41-7	Beryllium	1.86E-01		UG/G	1.20E-01	1.20E-01	5.70E-03	0.2509	G	4.73E-03			8/5/2011 13:34	1216155	46DQ	MLEPD1AA
J1KN81	SOIL	BS	7440-43-9	Cadmium	9.74E-02	U	UG/G	1.75E+00	1.75E+00	7.10E-03	0.2509	G	5.84E-03			8/5/2011 13:34	1216155	46DQ	MLEPD1AA
J1KN81	SOIL	BS	7440-47-3	Chromium	4.69E+00		UG/G	9.96E-01	9.96E-01	6.40E-02	0.2509	G	5.27E-02			8/5/2011 13:34	1216155	46DQ	MLEPD1AA
J1KN81	SOIL	BS	7439-92-1	Lead	2.75E+00	U	UG/G	3.47E+00	3.47E+00	1.80E-01	0.2509	G	1.50E-01			8/5/2011 13:34	1216155	46DQ	MLEPD1AA
J1KN81	SOIL	BS	7782-49-2	Se	1.27E-01	U	UG/G	8.33E+00	8.33E+00	1.00E+00	0.2509	G	8.58E-01			8/5/2011 13:34	1216155	46DQ	MLEPD1AA
INTRA-LAE	SOIL	BLK	7440-22-4	Ag	-1.27E-02	U	MG/L	5.50E-03	5.50E-03	1.20E-03	1	L	9.47E-04			8/5/2011 9:49	1216155	46DQ	MLEQ31AA
INTRA-LAE	SOIL	BLK	7440-38-2	As	-2.36E-03	U	MG/L	2.16E-02	2.16E-02	1.70E-03	1	L	1.36E-03			8/5/2011 9:49	1216155	46DQ	MLEQ31AA
INTRA-LAE	SOIL	BLK	7440-39-3	Ba	-3.50E-04	U	MG/L	4.50E-03	4.50E-03	2.60E-05	1	L	2.13E-05			8/5/2011 9:49	1216155	46DQ	MLEQ31AA
INTRA-LAE	SOIL	BLK	7440-41-7	Beryllium	3.76E-05	U	MG/L	6.00E-04	6.00E-04	6.40E-05	1	L	5.30E-05			8/5/2011 9:49	1216155	46DQ	MLEQ31AA
INTRA-LAE	SOIL	BLK	7440-43-9	Cadmium	9.85E-05	U	MG/L	8.80E-03	8.80E-03	3.60E-04	1	L	2.98E-04			8/5/2011 9:49	1216155	46DQ	MLEQ31AA
INTRA-LAE	SOIL	BLK	7440-47-3	Chromium	-1.18E-03	U	MG/L	5.00E-03	5.00E-03	1.90E-04	1	L	1.56E-04			8/5/2011 9:49	1216155	46DQ	MLEQ31AA
INTRA-LAE	SOIL	BLK	7439-92-1	Lead	-9.82E-04	U	MG/L	1.74E-02	1.74E-02	7.80E-04	1	L	6.44E-04			8/5/2011 9:49	1216155	46DQ	MLEQ31AA
INTRA-LAE	SOIL	BLK	7782-49-2	Se	-9.57E-05	U	MG/L	4.18E-02	4.18E-02	4.30E-03	1	L	3.57E-03			8/5/2011 9:49	1216155	46DQ	MLEQ31AA
INTRA-LAE	SOIL	LCS	7440-22-4	Ag	8.59E-01		MG/L	5.50E-03	5.50E-03	7.70E-03	1	L	6.33E-03	0.86	1	8/5/2011 9:52	1216155	46DQ	MLEQ31AA
INTRA-LAE	SOIL	LCS	7440-38-2	As	8.95E-01		MG/L	2.16E-02	2.16E-02	7.50E-03	1	L	6.19E-03	0.89	1	8/5/2011 9:52	1216155	46DQ	MLEQ31AA
INTRA-LAE	SOIL	LCS	7440-39-3	Ba	9.08E-01		MG/L	4.50E-03	4.50E-03	5.50E-02	1	L	4.49E-02	0.91	1	8/5/2011 9:52	1216155	46DQ	MLEQ31AA
INTRA-LAE	SOIL	LCS	7440-41-7	Beryllium	9.36E-01		MG/L	6.00E-04	6.00E-04	1.60E-02	1	L	1.34E-02	0.94	1	8/5/2011 9:52	1216155	46DQ	MLEQ31AA
INTRA-LAE	SOIL	LCS	7440-43-9	Cadmium	8.90E-01		MG/L	8.80E-03	8.80E-03	9.80E-03	1	L	8.06E-03	0.89	1	8/5/2011 9:52	1216155	46DQ	MLEQ31AA
INTRA-LAE	SOIL	LCS	7440-47-3	Chromium	8.75E-01		MG/L	5.00E-03	5.00E-03	1.20E-02	1	L	1.02E-02	0.87	1	8/5/2011 9:52	1216155	46DQ	MLEQ31AA
INTRA-LAE	SOIL	LCS	7439-92-1	Lead	8.82E-01		MG/L	1.74E-02	1.74E-02	1.00E-02	1	L	8.21E-03	0.88	1	8/5/2011 9:52	1216155	46DQ	MLEQ31AA
INTRA-LAE	SOIL	LCS	7782-49-2	Se	8.54E-01		MG/L	4.18E-02	4.18E-02	1.50E-02	1	L	1.23E-02	0.85	1	8/5/2011 9:52	1216155	46DQ	MLEQ31AA
J1KN77 DI	SOIL	DUP	7440-22-4	Ag	-1.51E+00	U	UG/G	1.10E+00	1.10E+00	4.90E-02	0.2499	G	4.04E-02			8/5/2011 13:23	1216155	46DQ	MLEN71A0
J1KN77 DI	SOIL	DUP	7440-38-2	As	2.21E+00	U	UG/G	4.32E+00	4.32E+00	1.20E-01	0.2499	G	9.65E-02			8/5/2011 13:23	1216155	46DQ	MLEN71A0
J1KN77 DI	SOIL	DUP	7440-39-3	Ba	5.10E+01		UG/G	9.00E-01	9.00E-01	4.80E-01	0.2499	G	3.92E-01			8/5/2011 13:23	1216155	46DQ	MLEN71A0
J1KN77 DI	SOIL	DUP	7440-41-7	Beryllium	2.05E-01		UG/G	1.20E-01	1.20E-01	3.20E-03	0.2499	G	2.66E-03			8/5/2011 13:23	1216155	46DQ	MLEN71A0
J1KN77 DI	SOIL	DUP	7440-43-9	Cadmium	1.08E-01	U	UG/G	1.76E+00	1.76E+00	2.70E-02	0.2499	G	2.19E-02			8/5/2011 13:23	1216155	46DQ	MLEN71A0
J1KN77 DI	SOIL	DUP	7440-47-3	Chromium	3.08E+00		UG/G	1.00E+00	1.00E+00	1.00E-01	0.2499	G	8.54E-02			8/5/2011 13:23	1216155	46DQ	MLEN71A0
J1KN77 DI	SOIL	DUP	7439-92-1	Lead	2.32E+00	U	UG/G	3.48E+00	3.48E+00	4.10E-01	0.2499	G	3.39E-01			8/5/2011 13:23	1216155	46DQ	MLEN71A0
J1KN77 DI	SOIL	DUP	7782-49-2	Se	7.67E-01	U	UG/G	8.36E+00	8.36E+00	1.40E+00	0.2499	G	1.12E+00			8/5/2011 13:23	1216155	46DQ	MLEN71A0
J1KN77	SOIL	MS	7440-22-4	Ag	1.60E+02		% REC(	1.07E+00	1.07E+00	1.70E+00	0.2578	L	1.37E+00	0.83	193.7	8/5/2011 13:18	1216155	46DQ	MLEN71A0
J1KN77	SOIL	MS	7440-38-2	As	1.67E+02		% REC(	4.19E+00	4.19E+00	1.30E+00	0.2578	L	1.08E+00	0.88	190.5	8/5/2011 13:18	1216155	46DQ	MLEN71A0
J1KN77	SOIL	MS	7440-39-3	Ba	1.63E+02		% REC(	8.73E-01	8.73E-01	1.60E+00	0.2578	L	1.29E+00	1.12	145.9	8/5/2011 13:18	1216155	46DQ	MLEN71A0
J1KN77	SOIL	MS	7440-41-7	Beryllium	1.74E+02		% REC(	1.16E-01	1.16E-01	1.30E+00	0.2578	L	1.09E+00	0.9	193.7	8/5/2011 13:18	1216155	46DQ	MLEN71A0
J1KN77	SOIL	MS	7440-43-9	Cadmium	1.66E+02		% REC(	1.71E+00	1.71E+00	8.00E-01	0.2578	L	6.59E-01	0.86	193.8	8/5/2011 13:18	1216155	46DQ	MLEN71A0

Client_id	Matrix	Result_t	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_	Reporting_Limits	Uncertainty_1s	Analyzed_sa	Analyzed_s	Decision_level_L	CSRecovery	AddedAr	Analysis_date_tin	Batch_nbr	Test_Method	Lab_sample_id
J1KN77	SOIL	MS	7440-47-3	Chromium	1.66E+02		% REC	9.70E-01	9.70E-01	1.30E+00	0.2578	L	1.09E+00	0.87	190.9	8/5/2011 13:18	1216155	46DQ	MLEN71A0
J1KN77	SOIL	MS	7439-92-1	Lead	1.60E+02		% REC	3.37E+00	3.37E+00	9.50E-01	0.2578	L	7.78E-01	0.84	191	8/5/2011 13:18	1216155	46DQ	MLEN71A0
J1KN77	SOIL	MS	7782-49-2	Se	1.64E+02		% REC	8.11E+00	8.11E+00	2.80E-01	0.2578	L	2.32E-01	0.85	193.5	8/5/2011 13:18	1216155	46DQ	MLEN71A0
J1KN77	SOIL	MSD	7440-22-4	Ag	1.63E+02		% REC	1.06E+00	1.06E+00	2.10E+00	0.2587	L	1.75E+00	0.85	193	8/5/2011 13:20	1216155	46DQ	MLEN71A0
J1KN77	SOIL	MSD	7440-38-2	As	1.71E+02		% REC	4.17E+00	4.17E+00	6.30E-01	0.2587	L	5.19E-01	0.9	190	8/5/2011 13:20	1216155	46DQ	MLEN71A0
J1KN77	SOIL	MSD	7440-39-3	Ba	1.65E+02		% REC	8.70E-01	8.70E-01	5.70E+00	0.2587	L	4.70E+00	1.13	146	8/5/2011 13:20	1216155	46DQ	MLEN71A0
J1KN77	SOIL	MSD	7440-41-7	Beryllium	1.76E+02		% REC	1.16E-01	1.16E-01	2.80E+00	0.2587	L	2.30E+00	0.91	193.1	8/5/2011 13:20	1216155	46DQ	MLEN71A0
J1KN77	SOIL	MSD	7440-43-9	Cadmium	1.71E+02		% REC	1.70E+00	1.70E+00	3.50E-02	0.2587	L	2.88E-02	0.88	193.1	8/5/2011 13:20	1216155	46DQ	MLEN71A0
J1KN77	SOIL	MSD	7440-47-3	Chromium	1.68E+02		% REC	9.66E-01	9.66E-01	2.80E+00	0.2587	L	2.27E+00	0.88	190.3	8/5/2011 13:20	1216155	46DQ	MLEN71A0
J1KN77	SOIL	MSD	7439-92-1	Lead	1.63E+02		% REC	3.36E+00	3.36E+00	1.00E+00	0.2587	L	8.27E-01	0.86	190.4	8/5/2011 13:20	1216155	46DQ	MLEN71A0
J1KN77	SOIL	MSD	7782-49-2	Se	1.67E+02		% REC	8.08E+00	8.08E+00	1.40E-01	0.2587	L	1.15E-01	0.87	192.8	8/5/2011 13:20	1216155	46DQ	MLEN71A0

SDG: J01216
SAF: RC-154
BATCH:1221194
MATRIX: SOIL
ANALYSIS DATE: 8/9/11

Client_id	Matrix	Result_	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_Sa	Reporting_Limits	Uncertainty_1s	Analyzed_s	Analyzed_Decision_le	LCSF	Adde	Analysis_date_time	Batch_nbr	Test_Me	Lab_sample_id
J1KND9	SOIL	BS	7440-22-4	Ag	-6.44E-01	U	UG/G	1.10E+00	1.10E+00	1.50E-01	0.2502	G	1.23E-01		8/9/2011 21:54	1221194	46DQ	MLHP61A0
J1KND9	SOIL	BS	7440-38-2	As	2.85E+00	U	UG/G	4.32E+00	4.32E+00	5.60E-01	0.2502	G	4.77E-01		8/9/2011 21:54	1221194	46DQ	MLHP61A0
J1KND9	SOIL	BS	7440-39-3	Ba	6.98E+01		UG/G	8.99E-01	8.99E-01	5.30E-01	0.2502	G	4.40E-01		8/9/2011 21:54	1221194	46DQ	MLHP61A0
J1KND9	SOIL	BS	7440-41-7	Beryllium	2.26E-01		UG/G	1.20E-01	1.20E-01	1.20E-02	0.2502	G	9.69E-03		8/9/2011 21:54	1221194	46DQ	MLHP61A0
J1KND9	SOIL	BS	7440-43-9	Cadmium	1.25E-01	U	UG/G	1.76E+00	1.76E+00	1.20E-02	0.2502	G	9.82E-03		8/9/2011 21:54	1221194	46DQ	MLHP61A0
J1KND9	SOIL	BS	7440-47-3	Chromium	4.01E+00		UG/G	9.99E-01	9.99E-01	2.30E-01	0.2502	G	1.91E-01		8/9/2011 21:54	1221194	46DQ	MLHP61A0
J1KND9	SOIL	BS	7439-92-1	Lead	3.11E+00	U	UG/G	3.48E+00	3.48E+00	3.20E-01	0.2502	G	2.59E-01		8/9/2011 21:54	1221194	46DQ	MLHP61A0
J1KND9	SOIL	BS	7782-49-2	Se	-9.24E-01	U	UG/G	8.35E+00	8.35E+00	7.00E-01	0.2502	G	5.77E-01		8/9/2011 21:54	1221194	46DQ	MLHP61A0
J1KNF0	SOIL	BS	7440-22-4	Ag	-7.14E-01	U	UG/G	1.11E+00	1.11E+00	1.40E-01	0.2481	G	1.16E-01		8/9/2011 22:05	1221194	46DQ	MLHQF1AA
J1KNF0	SOIL	BS	7440-38-2	As	2.26E+00	U	UG/G	4.35E+00	4.35E+00	8.50E-01	0.2481	G	7.03E-01		8/9/2011 22:05	1221194	46DQ	MLHQF1AA
J1KNF0	SOIL	BS	7440-39-3	Ba	6.91E+01		UG/G	9.07E-01	9.07E-01	8.80E-01	0.2481	G	7.28E-01		8/9/2011 22:05	1221194	46DQ	MLHQF1AA
J1KNF0	SOIL	BS	7440-41-7	Beryllium	2.20E-01		UG/G	1.21E-01	1.21E-01	1.60E-02	0.2481	G	1.33E-02		8/9/2011 22:05	1221194	46DQ	MLHQF1AA
J1KNF0	SOIL	BS	7440-43-9	Cadmium	9.43E-02	U	UG/G	1.77E+00	1.77E+00	7.20E-02	0.2481	G	5.94E-02		8/9/2011 22:05	1221194	46DQ	MLHQF1AA
J1KNF0	SOIL	BS	7440-47-3	Chromium	3.15E+00		UG/G	1.01E+00	1.01E+00	9.10E-02	0.2481	G	7.50E-02		8/9/2011 22:05	1221194	46DQ	MLHQF1AA
J1KNF0	SOIL	BS	7439-92-1	Lead	2.65E+00	U	UG/G	3.51E+00	3.51E+00	3.50E-01	0.2481	G	2.87E-01		8/9/2011 22:05	1221194	46DQ	MLHQF1AA
J1KNF0	SOIL	BS	7782-49-2	Se	-6.06E-01	U	UG/G	8.42E+00	8.42E+00	5.60E-01	0.2481	G	4.61E-01		8/9/2011 22:05	1221194	46DQ	MLHQF1AA
J1KNF1	SOIL	BS	7440-22-4	Ag	-5.57E-01	U	UG/G	1.10E+00	1.10E+00	1.60E-01	0.2494	G	1.34E-01		8/9/2011 22:08	1221194	46DQ	MLHQJ1AA
J1KNF1	SOIL	BS	7440-38-2	As	2.34E+00	U	UG/G	4.33E+00	4.33E+00	5.00E-01	0.2494	G	4.09E-01		8/9/2011 22:08	1221194	46DQ	MLHQJ1AA
J1KNF1	SOIL	BS	7440-39-3	Ba	6.46E+01		UG/G	9.02E-01	9.02E-01	9.80E-01	0.2494	G	8.09E-01		8/9/2011 22:08	1221194	46DQ	MLHQJ1AA
J1KNF1	SOIL	BS	7440-41-7	Beryllium	2.22E-01		UG/G	1.20E-01	1.20E-01	1.20E-02	0.2494	G	9.78E-03		8/9/2011 22:08	1221194	46DQ	MLHQJ1AA
J1KNF1	SOIL	BS	7440-43-9	Cadmium	9.72E-02	U	UG/G	1.76E+00	1.76E+00	3.20E-02	0.2494	G	2.59E-02		8/9/2011 22:08	1221194	46DQ	MLHQJ1AA
J1KNF1	SOIL	BS	7440-47-3	Chromium	4.40E+00		UG/G	1.00E+00	1.00E+00	1.10E-01	0.2494	G	9.07E-02		8/9/2011 22:08	1221194	46DQ	MLHQJ1AA
J1KNF1	SOIL	BS	7439-92-1	Lead	3.28E+00	U	UG/G	3.49E+00	3.49E+00	4.80E-01	0.2494	G	3.96E-01		8/9/2011 22:08	1221194	46DQ	MLHQJ1AA
J1KNF1	SOIL	BS	7782-49-2	Se	-1.28E+00	U	UG/G	8.38E+00	8.38E+00	9.00E-01	0.2494	G	7.40E-01		8/9/2011 22:08	1221194	46DQ	MLHQJ1AA
J1KNF2	SOIL	BS	7440-22-4	Ag	-5.93E-01	U	UG/G	1.10E+00	1.10E+00	1.50E-01	0.2506	G	1.22E-01		8/9/2011 22:10	1221194	46DQ	MLHQN1AA
J1KNF2	SOIL	BS	7440-38-2	As	2.28E+00	U	UG/G	4.31E+00	4.31E+00	1.00E+00	0.2506	G	8.44E-01		8/9/2011 22:10	1221194	46DQ	MLHQN1AA
J1KNF2	SOIL	BS	7440-39-3	Ba	6.13E+01		UG/G	8.98E-01	8.98E-01	3.70E-01	0.2506	G	3.04E-01		8/9/2011 22:10	1221194	46DQ	MLHQN1AA
J1KNF2	SOIL	BS	7440-41-7	Beryllium	2.19E-01		UG/G	1.20E-01	1.20E-01	1.00E-02	0.2506	G	8.60E-03		8/9/2011 22:10	1221194	46DQ	MLHQN1AA
J1KNF2	SOIL	BS	7440-43-9	Cadmium	8.65E-02	U	UG/G	1.76E+00	1.76E+00	3.30E-02	0.2506	G	2.74E-02		8/9/2011 22:10	1221194	46DQ	MLHQN1AA
J1KNF2	SOIL	BS	7440-47-3	Chromium	3.65E+00		UG/G	9.98E-01	9.98E-01	1.20E-01	0.2506	G	1.02E-01		8/9/2011 22:10	1221194	46DQ	MLHQN1AA
J1KNF2	SOIL	BS	7439-92-1	Lead	2.84E+00	U	UG/G	3.47E+00	3.47E+00	4.70E-01	0.2506	G	3.87E-01		8/9/2011 22:10	1221194	46DQ	MLHQN1AA
J1KNF2	SOIL	BS	7782-49-2	Se	-4.77E-01	U	UG/G	8.34E+00	8.34E+00	5.00E-01	0.2506	G	4.10E-01		8/9/2011 22:10	1221194	46DQ	MLHQN1AA
J1KNF3	SOIL	BS	7440-22-4	Ag	-6.95E-01	U	UG/G	1.11E+00	1.11E+00	9.10E-02	0.2483	G	7.45E-02		8/9/2011 22:21	1221194	46DQ	MLHQP1AA
J1KNF3	SOIL	BS	7440-38-2	As	2.44E+00	U	UG/G	4.35E+00	4.35E+00	9.50E-01	0.2483	G	7.83E-01		8/9/2011 22:21	1221194	46DQ	MLHQP1AA
J1KNF3	SOIL	BS	7440-39-3	Ba	5.61E+01		UG/G	9.06E-01	9.06E-01	4.30E-01	0.2483	G	3.55E-01		8/9/2011 22:21	1221194	46DQ	MLHQP1AA
J1KNF3	SOIL	BS	7440-41-7	Beryllium	1.96E-01		UG/G	1.21E-01	1.21E-01	5.50E-03	0.2483	G	4.49E-03		8/9/2011 22:21	1221194	46DQ	MLHQP1AA
J1KNF3	SOIL	BS	7440-43-9	Cadmium	9.72E-02	U	UG/G	1.77E+00	1.77E+00	2.50E-02	0.2483	G	2.04E-02		8/9/2011 22:21	1221194	46DQ	MLHQP1AA
J1KNF3	SOIL	BS	7440-47-3	Chromium	5.54E+00		UG/G	1.01E+00	1.01E+00	2.80E-01	0.2483	G	2.30E-01		8/9/2011 22:21	1221194	46DQ	MLHQP1AA
J1KNF3	SOIL	BS	7439-92-1	Lead	2.97E+00	U	UG/G	3.50E+00	3.50E+00	4.50E-01	0.2483	G	3.73E-01		8/9/2011 22:21	1221194	46DQ	MLHQP1AA
J1KNF3	SOIL	BS	7782-49-2	Se	-4.18E-01	U	UG/G	8.42E+00	8.42E+00	2.40E-01	0.2483	G	1.94E-01		8/9/2011 22:21	1221194	46DQ	MLHQP1AA
INTRA-LAB BL/	SOIL	BLK	7440-22-4	Ag	-5.52E-03	U	MG/L	5.50E-03	5.50E-03	1.90E-03	0.2504	L	1.58E-03		8/9/2011 21:46	1221194	46DQ	MLHRG1AA
INTRA-LAB BL/	SOIL	BLK	7440-38-2	As	1.39E-03	U	MG/L	2.16E-02	2.16E-02	2.60E-03	0.2504	L	2.15E-03		8/9/2011 21:46	1221194	46DQ	MLHRG1AA
INTRA-LAB BL/	SOIL	BLK	7440-39-3	Ba	-1.94E-04	U	MG/L	4.50E-03	4.50E-03	1.40E-04	0.2504	L	1.16E-04		8/9/2011 21:46	1221194	46DQ	MLHRG1AA
INTRA-LAB BL/	SOIL	BLK	7440-41-7	Beryllium	2.39E-05	U	MG/L	6.00E-04	6.00E-04	1.30E-04	0.2504	L	1.06E-04		8/9/2011 21:46	1221194	46DQ	MLHRG1AA
INTRA-LAB BL/	SOIL	BLK	7440-43-9	Cadmium	3.94E-04	U	MG/L	8.80E-03	8.80E-03	1.40E-04	0.2504	L	1.18E-04		8/9/2011 21:46	1221194	46DQ	MLHRG1AA
INTRA-LAB BL/	SOIL	BLK	7440-47-3	Chromium	-3.52E-04	U	MG/L	5.00E-03	5.00E-03	2.70E-04	0.2504	L	2.21E-04		8/9/2011 21:46	1221194	46DQ	MLHRG1AA
INTRA-LAB BL/	SOIL	BLK	7439-92-1	Lead	1.14E-03	U	MG/L	1.74E-02	1.74E-02	3.40E-03	0.2504	L	2.76E-03		8/9/2011 21:46	1221194	46DQ	MLHRG1AA
INTRA-LAB BL/	SOIL	BLK	7782-49-2	Se	-1.66E-04	U	MG/L	4.18E-02	4.18E-02	9.90E-04	0.2504	L	8.15E-04		8/9/2011 21:46	1221194	46DQ	MLHRG1AA
INTRA-LAB CHI	SOIL	LCS	7440-22-4	Ag	9.18E-01		MG/L	5.50E-03	5.50E-03	1.00E-02	0.2525	L	8.55E-03	0.9	1	8/9/2011 21:49	1221194	46DQ	MLHP61A0
INTRA-LAB CHI	SOIL	LCS	7440-38-2	As	9.25E-01		MG/L	2.16E-02	2.16E-02	4.90E-03	0.2525	L	4.04E-03	0.9	1	8/9/2011 21:49	1221194	46DQ	MLHP61A0
INTRA-LAB CHI	SOIL	LCS	7440-39-3	Ba	9.59E-01		MG/L	4.50E-03	4.50E-03	9.70E-03	0.2525	L	8.01E-03	1	1	8/9/2011 21:49	1221194	46DQ	MLHP61A0
INTRA-LAB CHI	SOIL	LCS	7440-41-7	Beryllium	9.49E-01		MG/L	6.00E-04	6.00E-04	1.10E-02	0.2525	L	8.75E-03	1	1	8/9/2011 21:49	1221194	46DQ	MLHP61A0
INTRA-LAB CHI	SOIL	LCS	7440-43-9	Cadmium	9.34E-01		MG/L	8.80E-03	8.80E-03	6.90E-03	0.2525	L	5.69E-03	0.9	1	8/9/2011 21:49	1221194	46DQ	MLHP61A0
INTRA-LAB CHI	SOIL	LCS	7440-47-3	Chromium	9.29E-01		MG/L	5.00E-03	5.00E-03	1.10E-02	0.2525	L	8.84E-03	0.9	1	8/9/2011 21:49	1221194	46DQ	MLHP61A0
INTRA-LAB CHI	SOIL	LCS	7439-92-1	Lead	9.21E-01		MG/L	1.74E-02	1.74E-02	1.40E-02	0.2525	L	1.15E-02	0.9	1	8/9/2011 21:49	1221194	46DQ	MLHP61A0
INTRA-LAB CHI	SOIL	LCS	7782-49-2	Se	8.92E-01		MG/L	4.18E-02	4.18E-02	1.40E-02	0.2525	L	1.12E-02	0.9	1	8/9/2011 21:49	1221194	46DQ	MLHP61A0
J1KND9 DUP	SOIL	DUP	7440-22-4	Ag	-7.70E-01	U	UG/G	1.11E+00	1.11E+00	9.90E-02	0.2486	G	8.17E-02		8/9/2011 22:02	1221194	46DQ	MLHP61A0
J1KND9 DUP	SOIL	DUP	7440-38-2	As	2.08E+00	U	UG/G	4.34E+00	4.34E+00	6.70E-01	0.2486	G	5.54E-01		8/9/2011 22:02	1221194	46DQ	MLHP61A0
J1KND9 DUP	SOIL	DUP	7440-39-3	Ba	6.64E+01		UG/G	9.05E-01	9.05E-01	8.20E-01	0.2486	G	6.74E-01		8/9/2011 22:02	1221194	46DQ	MLHP61A0
J1KND9 DUP	SOIL	DUP	7440-41-7	Beryllium	2.32E-01		UG/G	1.21E-01	1.21E-01	8.20E-03	0.2486	G	6.72E-03		8/9/2011 22:02	1221194	46DQ	MLHP61A0
J1KND9 DUP	SOIL	DUP	7440-43-9	Cadmium	7.39E-02	U	UG/G	1.77E+00	1.77E+00	3.90E-02	0.2486	G	3.21E-02		8/9/2011 22:02	1221194	46DQ	MLHP61A0
J1KND9 DUP	SOIL	DUP	7440-47-3	Chromium	4.56E+00		UG/G	1.01E+00	1.01E+00	1.20E-01	0.2486	G	1.01E-01		8/9/2011 22:02	1221194	46DQ	MLHP61A0
J1KND9 DUP	SOIL	DUP	7439-92-1	Lead	2.93E+00	U	UG/G	3.50E+00	3.50E+00	2.40E-01	0.2486	G	2.00E-01		8/9/2011 22:02	1221194	46DQ	MLHP61A0
J1KND9 DUP	SOIL	DUP	7782-49-2	Se	-6.19E-01	U	UG/G	8.41E+00	8.41E+00	1.20E+00	0.2486	G	1.03E+00		8/9/2011 22:02	1221194	46DQ	MLHP61A0
J1KND9	SOIL	MS	7440-22-4	Ag	1.79E+02		% reco	1.10E+00	1.10E+00	7.20E-01	0.2499	L	5.95E-01	0.9	200	8/9/2011 21:57	1221194	46DQ	MLHP61A0
J1KND9	SOIL	MS	7440-38-2	As	1.79E+02		% reco	4.32E+00	4.32E+00	4.60E-01	0.2499	L	3.75E-01	0.9	197	8/9/2011 21:57	1221194	46DQ	MLHP61A0
J1KND9	SOIL	MS	7440-39-3	Ba	1.82E+02		% reco	9.00E-01	9.00E-01	1.90E+00	0.2499	L	1.55E+00	1.3	145	8/9/2011 21:57	1221194	46DQ	MLHP61A0
J1KND9	SOIL	MS	7440-41-7	Beryllium	1.87E+02		% reco	1.20E-01	1.20E-01	8.40E-01	0.2499	L	6.93E-01	0.9	200	8/9/2011 21:57	1221194	46DQ	MLHP61A0
J1KND9	SOIL	MS	7440-43-9	Cadmium	1.79E+02		% reco	1.76E+00	1.76E+00	1.00E+00	0.2499	L	8.54E-01	0.9	200	8/9/2011 21:57	1221194	46DQ	MLHP61A0
J1KND9	SOIL	MS	7440-47-3	Chromium	1.79E+02		% reco	1.00E+00	1.00E+00	5.90E-01	0.2499	L	4.87E-01	0.9	196	8/9/2011 21:57	1221194	46DQ	MLHP61A0

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Client_id	Matrix	Result_	Cas_nbr	Parameter	Result	Qualifier	Units	Reporting_Limits_Sa	Reporting_Limits	Uncertainty_1s	Analyzed_s	Analyzed	Decision_le	LCSF	Adde	Analysis_date_time	Batch_nbr	Test_Me	Lab_sample_id
J1KND9	SOIL	MS	7439-92-1	Lead	1.73E+02		% reco	3.48E+00	3.48E+00	9.80E-01	0.2499	L	8.02E-01	0.9	197	8/9/2011 21:57	1221194	46DQ	MLHP61A0
J1KND9	SOIL	MS	7782-49-2	Se	1.73E+02		% reco	8.36E+00	8.36E+00	7.70E-01	0.2499	L	6.31E-01	0.9	200	8/9/2011 21:57	1221194	46DQ	MLHP61A0
J1KND9	SOIL	MSD	7440-22-4	Ag	1.80E+02		% reco	1.10E+00	1.10E+00	9.80E-01	0.2496	L	8.08E-01	0.9	200	8/9/2011 22:00	1221194	46DQ	MLHRG1AA
J1KND9	SOIL	MSD	7440-38-2	As	1.80E+02		% reco	4.33E+00	4.33E+00	2.20E+00	0.2496	L	1.79E+00	0.9	197	8/9/2011 22:00	1221194	46DQ	MLHRG1AA
J1KND9	SOIL	MSD	7440-39-3	Ba	1.77E+02		% reco	9.01E-01	9.01E-01	9.10E+00	0.2496	L	7.47E+00	1.2	144	8/9/2011 22:00	1221194	46DQ	MLHRG1AA
J1KND9	SOIL	MSD	7440-41-7	Beryllium	1.89E+02		% reco	1.20E-01	1.20E-01	7.70E-01	0.2496	L	6.36E-01	0.9	200	8/9/2011 22:00	1221194	46DQ	MLHRG1AA
J1KND9	SOIL	MSD	7440-43-9	Cadmium	1.81E+02		% reco	1.76E+00	1.76E+00	1.00E+00	0.2496	L	8.27E-01	0.9	200	8/9/2011 22:00	1221194	46DQ	MLHRG1AA
J1KND9	SOIL	MSD	7440-47-3	Chromium	1.82E+02		% reco	1.00E+00	1.00E+00	1.10E+00	0.2496	L	9.05E-01	0.9	196	8/9/2011 22:00	1221194	46DQ	MLHRG1AA
J1KND9	SOIL	MSD	7439-92-1	Lead	1.74E+02		% reco	3.49E+00	3.49E+00	1.60E+00	0.2496	L	1.31E+00	0.9	197	8/9/2011 22:00	1221194	46DQ	MLHRG1AA
J1KND9	SOIL	MSD	7782-49-2	Se	1.74E+02		% reco	8.37E+00	8.37E+00	2.20E+00	0.2496	L	1.81E+00	0.9	200	8/9/2011 22:00	1221194	46DQ	MLHRG1AA

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-154-072	Page 1 of 2

Collector: Orozco, L.	Company Contact: Joan Kessner	Telephone No.: 509-375-4688	Project Coordinator: KESSNER, JH
Price Code: 8L	Data Turnaround: SU 8/3/11 ~~21 Days~~ 24 hour - Quick Turn		
Project Designation: 618-10 & 618-11 Field Remediation - Soil In-Process	Sampling Location: 618-10 EAST Surge Trench Soil		SAF No.: RC-154
Ice Chest No.: N/A	Field Logbook No.: EL-1648-01	COA: S618DT8100	Method of Shipment: Gov Vehicle
Shipped To: TestAmerica Incorporated, Richland	Offsite Property No.: N/A		Bill of Lading/Air Bill No.: N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

~~Potential~~ Rad LDOT Limits AJ 8-4-11

Special Handling and/or Storage

Cool 4 Deg C

Quote # 88144

SDG #J01216
LOT #J1H040509
Report: 8/5/11

Preservation	Cool 4C	None
Type of Container	G/P	G/P
No. of Container(s)	1	1
Volume	60mL	60mL

J1H040509

SAMPLE ANALYSIS

Sample No.	Matrix *	Sample Date	Sample Time	See item (1) in Special Instructions.	RCF GEA Shipping Screen SU 8/3/11	RCF	
J1KN67 MLENG	SOIL	8/4/11	0825	X		29762	1
J1KN68 MLENJ	SOIL	8/4/11	0828	X		29763	2
J1KN69 MLENL	SOIL	8/4/11	0829	X		29764	3
J1KN70 MLENN	SOIL	8/4/11	0830	X		29765	4
J1KN71 MLENP	SOIL	8/4/11	0832	X		29766	5

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

Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
Loren Orozco	08/04/11 0930	S. Van Den Hende	8/4/11 0930
S. Van Den Hende	8/4/11 1029	A. PORTER	8-4-11 1029
A. PORTER (WCH)	8-4-11 1345	Barbara Richardson	8-4-11 1345 TAL

SPECIAL INSTRUCTIONS

SU 8/3/11
(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Metals by ICP - 6010 - Quick Turn (Add On) {Beryllium}

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

REVIEWED BY AJ DATE 8-4-11

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

WCH-EE-011

TestAmerica Laboratories, Inc.

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TestAmerica Laboratories, Inc.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-154-072	Page 2 of 2

Collector Orozco, L.	**Company Contact** Joan Kessner	**Telephone No.** 509-375-4688	**Project Coordinator** KESSNER, JH
Price Code 8L	**Data Turnaround** SV 8/3/11 ~~21 Days~~ 24 hour-QuickTurn		
Project Designation 618-10 & 618-11 Field Remediation - Soil In-Process	**Sampling Location** 618-10 EAST Surge Trench Soil		**SAF No.** RC-154
Ice Chest No. N/A	**Field Logbook No.** EL-1648-01	**COA** S618DT8100	**Method of Shipment** Gov Vehicle
Shipped To TestAmerica Incorporated, Richland	**Offsite Property No.** N/A		**Bill of Lading/Air Bill No.** N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

~~Potential~~ Rad & DOT Limits
~~AJ~~ 8-4-11

Special Handling and/or Storage

Cool 4 Deg C

Quote # 88144

SDG# J01216
LOT# J1H040504
Report 8/5/11

Preservation	Cool 4C	None									
Type of Container	G/P	G/P									
No. of Container(s)	1	1									
Volume	60mL	60mL									
SAMPLE ANALYSIS	See item (1) in Special Instructions.	RCF GEA Shipping Screen SV 8/3/11									

Sample No.	Matrix *	Sample Date	Sample Time									
J1KN72 MLENQ	SOIL	8/4/11	0833	X							29767	6
J1KN73 MLENR	SOIL	8/4/11	0835	X							29768	7
J1KN74 MLENT	SOIL	8/4/11	0837	X							29769	8
J1KN75 MLENV	SOIL	8/4/11	0838	X							29770	9
J1KN76 MLENX	SOIL	8/4/11	0841	X							29771	10

CHAIN OF POSSESSION	Date/Time	Sign/Print Names: Received By/Stored In	Date/Time
Relinquished By/Removed From: Lorenzo Orozco	08/04/11 0930	S. VanDenHende	8/4/11 0930
Relinquished By/Removed From: S. VanDenHende	8/4/11 1029	Received By/Stored In: A. PORTER	8-4-11 1029
Relinquished By/Removed From: A. PORTER (WCH)	8-4-11 1345	Received By/Stored In: Barbara Richardson (TAL)	8-4-11 1345
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

SV 8/3/11
(1) Metals by ICP - 6010 - Quick Turn {Arsenic, Barium, Cadmium, Chromium, Lead, Selenium, Silver}; Metals by ICP - 6010 - Quick Turn (Add On) {Beryllium}

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

REVIEWED BY AJ
DATE 8-4-1

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

WCH-EE-011

Analysis Report for RCF29762

J1KN67 SAF:RC-154 618-10/EAST Surge Trench Soil

DOT Non- Regulated

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF29762
Sample Description	: J1KN67 SAF:RC-154 618-10/EAST Surge Trench Soil
Sample Type	: 50g pillbox
Sample Size	: 5.700E+01 grams
Facility	: Default
Sample Taken On	: 8/4/2011 8:25:00AM
Acquisition Started	: 8/4/2011 10:53:14AM
Procedure	: 50 Gram Pill Box
Operator	: RCT
Detector Name	: REGIE2
Geometry	: 50 ml Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3600.4 seconds
Dead Time	: 0.01 %
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	: 3/17/2011
Efficiency Calibration Description	: REGIE2 50gPB 031711EC SN82751A-238
Sample Number	: 17940

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		0.946	1.02E+01	2.55E+00	
RA-226d	@	0.621	3.20E-01	1.25E-01	

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Sample Check-in List

Date/Time Received: 8/4/11 @ 1345 GM Screen Result: (Airlock) .06 Initials HC
(Sample Receiving) .06 Initials HC

Client: WCH SDG #: JD1216 NA [ ] SAF #: RC-154 NA [ ]

Lot Number: J1H040509

Chain of Custody # RC-154-072

Shipping Container ID: Hand delivered NA HC

Samples received inside shipping container/cooler/box Yes HC 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 HC
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal HC
3. Cooler temperature: ON ICE SKS 8/5/11 11.5 °C NA [ ]
4. Vermiculite/packing materials is NA [ ] Wet [ ] Dry HC

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes HC No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 10 samples
7. Containers received: 10 X 60mL aq

8. Sample holding times exceeded? NA [ ] Yes [ ] No HC

9. Samples have:
   ____tape
   HC custody seals
   HC hazard labels
   HC appropriate sample labels

10. Matrix:
    HC A (FLT, Wipe, Solid, Soil)
    ____S (Air, Niosh 7400)
    ____I (Water)
    ____T (Biological, Ni-63)

11. Samples:
    HC are in good condition
    ____are broken
    ____Other
    ____are leaking
    ____have air bubbles (Only for samples requiring no head space)

12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA HC
    (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 HC

14. Description of anomalies (include sample numbers): NA HC

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: N/A

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

Sample Custodian: [signature] Date: 8/4/11 @ 1345

Client Informed on N/A by N/A Person contacted N/A

[✓] No action necessary; process as is

Project Manager Sandra Segen Date 8/5/11

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

HPC 8/4/11

HPC 8/4/11

JIH040509 SKS 8/5/11

TestAmerica Laboratories, Inc.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-154-073	Page 1 of 1

Collector Orozco, L.	**Company Contact** Joan Kessner **Telephone No.** 509-375-4688	**Project Coordinator** KESSNER, JH	**Price Code** 8L **Data Turnaround** ~~21 Days~~ 24 hour - Quick Turn
Project Designation 618-10 & 618-11 Field Remediation - Soil In-Process	**Sampling Location** 618-10 EAST Surge Trench Soil	**SAF No.** RC-154	
Ice Chest No. N/A	**Field Logbook No.** EL-1648-01 **COA** S618DT8100	**Method of Shipment** Gov Vehicle	
Shipped To TestAmerica Incorporated, Richland	**Offsite Property No.** N/A	**Bill of Lading/Air Bill No.** N/A	

POSSIBLE SAMPLE HAZARDS/REMARKS

~~Potential~~ Rad < DOT Limits
AJ 8-4-11

Special Handling and/or Storage

Cool 4 Deg C

Quote # 88144
SDG # J01216
LOT # J1H040512
Report: 8/5/11

Preservation	Cool 4C	None
Type of Container	G/P	G/P
No. of Container(s)	1	1
Volume	60mL	60mL

J1H040512

SAMPLE ANALYSIS

				See item (1) in Special Instructions.	RCF GEA Shipping Screen SV 8/4/11								
Sample No.	Matrix *	Sample Date	Sample Time									RCF	
J1KN77 MLEN7	SOIL	8/4/11	0842	X								29772	11
J1KN78 MLEN8	SOIL	8/4/11	0844	X								29773	12
J1KN79 MLEN9	SOIL	8/4/11	0846	X								29774	13
J1KN80 MLEPA	SOIL	8/4/11	0848	X								29775	14
J1KN81 MLEPD	SOIL	8/4/11	0849.	X								29776	15

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CHAIN OF POSSESSION	Date/Time	Sign/Print Names	Date/Time
Relinquished By/Removed From: Loren Orozco	08/04/11 0930	Received By/Stored In: S. VanDenHende	8/4/11 0930
Relinquished By/Removed From: S. VanDenHende	8/4/11 1029	Received By/Stored In: A. PORTER	8-4-11 1029
Relinquished By/Removed From: A. PORTER (WCH)	8-4-11 1345	Received By/Stored In: Barbara Richardson (TAK)	8-4-11 1345
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	
Relinquished By/Removed From		Received By/Stored In	

SPECIAL INSTRUCTIONS

SV 8/4/11

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

REVIEWED BY AJ
DATE 8-4-11

Matrix *
S=Soil
SE=Sediment
SO=Solid
SL=Sludge
W=Water
O=Oil
A=Air
DS=Drum Solids
DL=Drum Liquids
T=Tissue
W=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
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Sample Check-in List

Date/Time Received: 8/4/11 @ 1345 GM Screen Result: (Airlock) .06 Initials HC
(Sample Receiving) .06 Initials HC

Client: WCH SDG #: JO1216 NA [ ] SAF #: RC-154 NA [ ]

Lot Number: J1H040512

Chain of Custody # RC-154-073

Shipping Container ID: Hand delivered NA SKS

Samples received inside shipping container/cooler/box Yes HC 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 HC
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal HC
3. Cooler temperature: ON ICE SKS 8/5/11 11.5 °C NA [ ]
4. Vermiculite/packing materials is NA [ ] Wet [ ] Dry HC

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes HC No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 5 samples
7. Containers received: 5X 60mL aq
8. Sample holding times exceeded? NA [ ] Yes [ ] No HC
9. Samples have:
   HC tape — HC hazard labels
   HC custody seals — HC appropriate sample labels
10. Matrix:
    SKS A (FLT, Wipe, Solid, Soil) — ____ I (Water)
    ____ S (Air, Niosh 7400) — ____ T (Biological, Ni-63)
11. Samples:
    HC 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 HC
    (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 HC
14. Description of anomalies (include sample numbers): NA HC

See over for additional information.

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

16. Additional Information: N/A

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

Sample Custodian: Hayley Garner Date: 8/4/11 @ 1345

Client Informed on N/A by N/A Person contacted N/A

[✓] No action necessary; process as is

Project Manager Sandra Seger Date 8/5/11

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

HPC 8/4/11

HPC 8/4/11

JIH 040512 SLS 8/5/11

TestAmerica Laboratories, Inc.

Washington Closure Hanford	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	RC-154-074	Page 1 of 1

Collector M. Blankingship	Company Contact Joan Kessner	Telephone No. 509-375-4688	Project Coordinator KESSNER, JH
Price Code 8L	Data Turnaround SV 8/8/11 ~~21 Days~~ 24 hour - Quick Turn		
Project Designation 618-10 & 618-11 Field Remediation - Soil In-Process	Sampling Location 618-10 EAST Surge Trench Soil		SAF No. RC-154
Ice Chest No. N/A	Field Logbook No. EL-1648-01	COA S618DT8100	Method of Shipment Gov Vehicle
Shipped To TestAmerica Incorporated, Richland	Offsite Property No. N/A		Bill of Lading/Air Bill No. N/A

POSSIBLE SAMPLE HAZARDS/REMARKS

Potential Rad LDOT LIMITS AP 8-9-11

Special Handling and/or Storage

Cool 4 Deg C

Quote# 88144

SDG# J01216
LOT# J1H090511
Report: 6/10/11

J1H090511

Preservation	Cool 4C	None	
Type of Container	G/P	Snap Vial	
No. of Container(s)	1	1	
Volume	60mL	60mL	
SAMPLE ANALYSIS	See item (1) in Special Instructions.	RCF GEA Shipping Screen SV 8/8/11	

Sample No.	Matrix *	Sample Date	Sample Time			RCF							
J1KND9 MLHPL	SOIL	8/8/11	755	X		29802							1
J1KNF0 ~~MLHPQ~~ MLHPQ SV 8/9/11	SOIL	8/8/11	756	X		29803	MLH	QF					2
J1KNF1 MLHQJ	SOIL	8/8/11	757	X		29804							3
J1KNF2 MLHQN	SOIL	8/8/11	758	X		29805							4
J1KNF3 MLHQP	SOIL	8/8/11	759	X		29806							5

CHAIN OF POSSESSION	Date/Time	Sign/Print Names	Date/Time
Relinquished By/Removed From MLBANIGAN	8/8/11 0805	Received By/Stored In S. Van Den Hende	8/8/11 0805
Relinquished By/Removed From S. Van Den Hende	8/8/11 0935	Received By/Stored In A. PORTER 1060#2	8-8-11 0935
Relinquished By/Removed From A. PORTER 1060#2 WCH	8-9-11 1445	Received By/Stored In J. Bock TALL	8-9-11 1445
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

SV 8/8/11

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

REVIEWED BY AJ DATE 8-9-11

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

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Apex™

Analysis Report for RCF29802

J1KND9 SAF:RC-154 618-10/EAST Surge Trench Soil

Non-Reg

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF29802
Sample Description	: J1KND9 SAF:RC-154 618-10/EAST Surge Trench Soil
Sample Type	: 80g pillbox
Sample Size	: 6.500E+01 grams
Facility	: Default
Sample Taken On	: 8/8/2011 7:55:00AM
Acquisition Started	: 8/8/2011 2:39:48PM
Procedure	: 80 Gram Pill Box
Operator	: RCT
Detector Name	: REGIE2
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3600.4 seconds
Dead Time	: 0.01 %
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	: 18016

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		0.949	1.19E+01	2.64E+00	
PB-212		0.710	7.58E-01	1.31E-01	
RA-226d	@	0.719	4.14E-01	1.23E-01	
TH-232d		0.667	4.57E-01	1.34E-01	

Apex™

Analysis Report for RCF29803

J1KNF0 SAF:RC-154 618-10/EAST Surge Trench Soil

Non-Reg

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF29803
Sample Description	: J1KNF0 SAF:RC-154 618-10/EAST Surge Trench Soil
Sample Type	: 80g pillbox
Sample Size	: 7.300E+01 grams
Facility	: Default
Sample Taken On	: 8/8/2011 7:56:00AM
Acquisition Started	: 8/8/2011 6:15:24PM
Procedure	: 80 Gram Pill Box
Operator	: RCT
Detector Name	: REGIE2
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3600.4 seconds
Dead Time	: 0.01 %
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	: 18023

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		0.984	1.24E+01	2.52E+00	
PB-212		0.710	6.48E-01	1.18E-01	
RA-226d	@	0.621	3.99E-01	1.09E-01	
TH-232d		0.674	5.66E-01	1.29E-01	

Apex™

Analysis Report for RCF29804

J1KNF1 SAF:RC-154 618-10/EAST Surge Trench Soil

Non-Reg

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF29804
Sample Description	: J1KNF1 SAF:RC-154 618-10/EAST Surge Trench Soil
Sample Type	: 80g pillbox
Sample Size	: 6.800E+01 grams
Facility	: Default
Sample Taken On	: 8/8/2011 7:57:00AM
Acquisition Started	: 8/8/2011 7:16:25PM
Procedure	: 80 Gram Pill Box
Operator	: RCT
Detector Name	: PGTLYNX
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3602.2 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	: 18024

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.997	1.34E+01	2.52E+00	
PB-212	0.710	7.81E-01	1.35E-01	
TH-232d	0.840	5.62E-01	1.17E-01	
U-235	0.547	9.74E-02	9.31E-02	
U-238d	0.328	7.78E-01	8.10E-01	

Apex™

Analysis Report for RCF29805

J1KNF2 SAF:RC-154 618-10/EAST Surge Trench Soil

Non-Reg

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF29805
Sample Description	: J1KNF2 SAF:RC-154 618-10/EAST Surge Trench Soil
Sample Type	: 80g pillbox
Sample Size	: 6.400E+01 grams
Facility	: Default
Sample Taken On	: 8/8/2011 7:58:00AM
Acquisition Started	: 8/8/2011 7:16:34PM
Procedure	: 80 Gram Pill Box
Operator	: RCT
Detector Name	: REGIE2
Geometry	: 80 Gram Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3600.4 seconds
Dead Time	: 0.01 %
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	: 18025

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40	0.959	1.41E+01	2.87E+00	
PB-212	0.709	7.79E-01	1.33E-01	
TH-232d	0.668	5.79E-01	1.50E-01	

Apex™

Analysis Report for RCF29806

J1KNF3 SAF:RC-154 618-10/EAST Surge Trench Soil

Non-Reg

GAMMA SPECTRUM ANALYSIS

Sample Identification	: RCF29806
Sample Description	: J1KNF3 SAF:RC-154 618-10/EAST Surge Trench Soil
Sample Type	: 50g pillbox
Sample Size	: 5.400E+01 grams
Facility	: Default
Sample Taken On	: 8/8/2011 7:59:00AM
Acquisition Started	: 8/8/2011 8:17:05PM
Procedure	: 50 Gram Pill Box
Operator	: RCT
Detector Name	: PGTLYNX
Geometry	: 50 ml Pill Box
Live Time	: 3600.0 seconds
Real Time	: 3602.4 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	: 3/9/2011
Efficiency Calibration Description	: PGTLYNX 50gPB 030711EC SN82751A-238
Sample Number	: 18026

INTERFERENCE CORRECTED REPORT

Nuclide Name		Nuclide Id Confidence	Wt mean Activity (pCi/grams)	Wt mean Activity Uncertainty	Comments
K-40		1.000	1.05E+01	2.58E+00	
PB-212		0.711	6.40E-01	1.39E-01	
RA-226d	@	0.621	4.39E-01	1.35E-01	
TH-232d		0.671	5.88E-01	1.21E-01	

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Sample Check-in List

Date/Time Received: 8-9-11 / 1445 GM Screen Result: (Airlock) .02 Initials [ ]
(Sample Receiving) .01 Initials [ ]

Client: WCH SDG #: J01216 NA [ ] SAF #: RC-154 NA [ ]

Lot Number: J1H090511

Chain of Custody # RC-154-074

Shipping Container ID: hand deliv. 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: 2 °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: 5x 60 m AG
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
    ____Other
    ____are leaking
    ____have air bubbles (Only for samples requiring no head space)
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. 14, 06/11 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: Julie Beck / 1445 Date: 8-9-11

Client Informed on _____ by _____ Person contacted _____

[✓] No action necessary; process as is

Project Manager [signature] Date 8/10/11

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