

RECEIVED FEBRUARY 13, 2010

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

F10-011

Lot #: FOA070534

SDG #: SL846

RECEIVED
AUG 18 2010

EDMC

Mike Neely

CH2M Hill Plateau Remediation
PO Box 1500, MS B6-06
Richland, WA 99352

TESTAMERICA LABORATORIES, INC.



Michael C. Franks
Project Manager

February 13, 2010

TestAmerica

CASE NARRATIVE

THE LEADER IN ENVIRONMENTAL TESTING
 CII2MHill Plateau Remediation Company
 P.O. Box 1600
 MS B3-60
 Richland, Washington 99352
 February 13, 2010
 Attention: Mike Neely

TestAmerica Laboratories, Inc.

SDG	: SL846
Number of Samples	: four samples
Sample Matrix	: Solid
Data Deliverable	: Summary
Date SDG Closed	: January 14, 2010

II. Introduction

Between January 7, 2010 and January 14, 2010, four solid samples were received by TestAmerica - St. Louis for chemical analysis. The samples were received within temperature criteria. See the COC and CUR forms for documentation of any variations on receipt conditions and temperature. Upon receipt, the samples were given laboratory Ids to correspond with specific client Ids. Please refer to the Sample Summary sheets attached to this case narrative. This report is incomplete without the narrative.

The following SAFs are associated with this SDG: F10-011

III. Analytical Results/ Methodology

The analytical results for this report are presented by analytical test. Each set of data includes sample identification information, analytical results and the appropriate detection limits. All results are based upon samples as they were received, i.e. wet weight, unless otherwise noted on the data sheets. See the attached Methods Summary Form for the methods used in this SDG.

MS/MSD/Dup analysis was done per the client requirements. Analytical batches that did not contain matrix QC were analyzed with a LCS/LCS duplicate.

Deviation from Request: None

IV. Definitions

QCBLK-	Quality Control Blank, Method Blank
QCLCS-	Quality Control Laboratory Control Sample, Blank Spike
DUP-	Laboratory Duplicate
MS-	Matrix Spike
MSD-	Matrix Spike Duplicate

The term "Detection Limit" used in the analytical data report refers to either the lab's standard reporting limits or contractually required reporting limits, whichever is applicable.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CH2M Hill Plateau Remediation Company

February 13, 2010

SDG: SL846

TestAmerica Laboratories, Inc.

The following data qualifiers may be applicable to the results in this report, as appropriate.

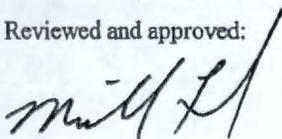
- B – For inorganic analyses, the sample result is greater than the MDL but less than the RL.
- B – For organic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL.
- J – For organic analyses, the sample is estimated and less than the RL.
- C – For inorganic analyses, Method Blank contamination. The Method Blank contains the target analyte at a concentration above the MDL.
- D – For all analyses, the sample result was obtained from the analysis of a dilution.
- N – For inorganics and GC analyses, the spike/spike duplicate recoveries are outside QC limits.
- T – For GCMS analyses, the spike/spike duplicate recoveries are outside QC limits.

There were no observations or nonconformances for the following methods:

Total Sulfide

I certify that this Summary Package is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. The Laboratory Manager or a designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Reviewed and approved:



Michael Franks
St. Louis Project Manager

METHODS SUMMARY

SL846

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD
Sulfides, Total 9030B/9034	SW846 9030B/903	SW846 9030B/903

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SL846 : FOA070534

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
LRX5D	001	B22RV4	12/29/09	13:30
LRX5F	002	B22RR3	12/17/09	12:20
LRX5G	003	B22RT5	12/28/09	09:35

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

(Continued on next page)

SAMPLE SUMMARY

SL846 : FOA140562

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
LR7G5	001	B22RW6	01/05/10	10:12

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SDG# SL846

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST			F10-011-115	PAGE 1 OF 1
COLLECTOR <i>Rosanne Rust, Turner, Chamberlain</i>	COMPANY CONTACT DYEKMAN, DL	TELEPHONE NO. 373-2530	PROJECT COORDINATOR DYEKMAN, DL		PRICE CODE 8N	DATA TURNAROUND 45 Days / 45 Days
SAMPLING LOCATION CS860 (299-E29-54); I-083	PROJECT DESIGNATION ARRA 200-LW-2 OU Characterization Vadose Zone - Soil ("K" Well)		SAF NO. F10-011		AIR QUALITY <input type="checkbox"/>	
ICE CHEST NO. <i>GWS-149</i>	FIELD LOGBOOK NO. <i>HNF-N-576-3P 96</i>	ACTUAL SAMPLE DEPTH <i>217.5-220.0'</i>	COA 302143ES10		METHOD OF SHIPMENT FEDERAL EXPRESS	

SHIPPED TO TestAmerica St. Louis	OFFSITE PROPERTY NO. SEE PTR	BILL OF LADING/AIR BILL NO. SEE PTR <i>7982 782 8009</i>
-------------------------------------	---------------------------------	--

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION Cool-4C/Cool-4C																		
		TYPE OF CONTAINER G/P																		
		NO. OF CONTAINER(S) 1																		
		VOLUME 60mL																		
	SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE TIE TO: B22T53	SAMPLE ANALYSIS Sulfides - 9030 (Sulfide)																		

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME																
B22RR3	SOIL	12-17-09	1220	✓															

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM <i>Larry Rosanne, Sunny Rosanne</i>	DATE/TIME 12-17-09 / 1510	RECEIVED BY/STORED IN <i>M0-413 SSU-R1</i>	DATE/TIME 12-17-09 / 1510	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. <input type="checkbox"/> <div style="border: 1px solid black; padding: 5px; display: inline-block;">ORIGINAL</div>	
RELINQUISHED BY/REMOVED FROM <i>MO-413 SSU-R1</i>	DATE/TIME JAN 06 2010	RECEIVED BY/STORED IN <i>D. Panch</i>	DATE/TIME JAN 06 2010		
RELINQUISHED BY/REMOVED FROM <i>D. Panch</i>	DATE/TIME JAN 06 2010	RECEIVED BY/STORED IN <i>Fed Ex</i>	DATE/TIME		
RELINQUISHED BY/REMOVED FROM <i>Fed Ex</i>	DATE/TIME	RECEIVED BY/STORED IN <i>J Wilson</i>	DATE/TIME 1-17-10 1215		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

TestAmerica St. Louis

8 OF 24

SDG# 51846

9 OF 24

CH2MHill Plateau Remediation Company		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F10-011-138	PAGE 1 OF 1	
COLLECTOR <i>ROSAVE, ROSE, TURNER, Chaudhary</i> SL946		COMPANY CONTACT DYEKMAN, DL	TELEPHONE NO. 373-2530	PROJECT COORDINATOR DYEKMAN, DL		PRICE CODE 8N	DATA TURNAROUND 45 Days / 45 Days	
SAMPLING LOCATION CS860 (299-E29-54); I-099		PROJECT DESIGNATION ARRA 200-LW-2 OU Characterization Vadose Zone - Soil ("K" Well)		SAF NO. F10-011	AIR QUALITY <input type="checkbox"/>			
ICE CHEST NO. <i>BWS-149</i>		FIELD LOGBOOK NO. <i>HNF-N-576-3 pg 98</i>	ACTUAL SAMPLE DEPTH <i>242.9-252.4'</i>	COA 302143ES10	METHOD OF SHIPMENT FEDERAL EXPRESS			
SHIPPED TO TestAmerica St. Louis		OFFSITE PROPERTY NO. SEE PTR		BILL OF LADING/AIR BILL NO. SEE PTR <i>7982 7821 8009</i>				
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION Cool=4C/Cool=4C						
		TYPE OF CONTAINER	G/P					
		NO. OF CONTAINER(S)	1					
		SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE TIE TO: B22T56	SAMPLE ANALYSIS	Sulfides - 9030 (Sulfide)				
VOLUME	60mL							
SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME					
B22RT5	SOIL	<i>12-28-09</i>	<i>0935</i>	<input checked="" type="checkbox"/>				
CHAIN OF POSSESSION		SIGN/ PRINT NAMES			SPECIAL INSTRUCTIONS			
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. <input type="checkbox"/>				
<i>Kerry Jones Tony Rowan</i>	<i>12-28-09</i>	<i>MO-413 SSU-R1</i>	<i>12-28-09</i>					
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME					
<i>MO-413 SSU-R1</i>	<i>JAN 06 2010</i>	<i>D. Darden</i>	<i>JAN 06 2010</i>					
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME					
<i>D. Darden</i>	<i>JAN 06 2010</i>	<i>Fed Ex</i>						
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME					
<i>FED EX</i>		<i>S. Wilson</i>	<i>1-7-10 1015</i>					
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					
LABORATORY SECTION	RECEIVED BY	TITLE		DATE/TIME				
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY		DATE/TIME				

ORIGINAL

00

TestAmerica St. Louis

Detailed Results

Enter tracking number

Track

Detailed Results	Notifications
------------------	---------------

Tracking no.: 798278218009

 [E-mail notifications](#)

Delivered

Initiated Picked up In transit **Delivered**

Delivered
Signed for by: S.WILSON

Shipment Dates

Destination

Ship date  Jan 6, 2010

EARTH CITY, MO

Delivery date  Jan 7, 2010 10:05 AM

[Signature Proof of Delivery !\[\]\(cf907b6581366ac39ee91719072e5253_img.jpg\)](#)

Shipment Facts

[Help](#)

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	8.0 lbs/3.6 kg	Reference	PTR00602 3D230/302143/ES10

Shipment Travel History

[Help](#)

Select time zone:

Select time format: **12H** | 24H

All shipment travel activity is displayed in local time for the location

Date/Time	Activity	Location	Details
Jan 7, 2010 10:05 AM	Delivered	EARTH CITY, MO	
Jan 7, 2010 7:22 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Jan 7, 2010 7:16 AM	At local FedEx facility	EARTH CITY, MO	
Jan 7, 2010 5:50 AM	At dest sort facility	BERKELEY, MO	
Jan 7, 2010 4:59 AM	Departed FedEx location	MEMPHIS, TN	
Jan 7, 2010 12:23 AM	Arrived at FedEx location	MEMPHIS, TN	
Jan 6, 2010 5:32 PM	Left FedEx origin facility	PASCO, WA	
Jan 6, 2010 3:14 PM	Picked up	PASCO, WA	
Jan 6, 2010 1:33 PM	Shipment information sent to FedEx		



Lot #(s): FOA070532
534

CONDITION UPON RECEIPT FORM

Client: CHPRC

Quote No: 84412, 84870

COC/RFA No: below

Initiated By: _____ Date: 45 1-7-10 Time: 1015

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y (N)

Shipping # (s):*	Sample Temperature (s):**
1. <u>7982 7821 8009</u>	1. <u>6</u>
2. _____	2. _____
3. _____	3. _____
4. _____	4. _____
5. _____	5. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines

**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1. <u>Y</u> N	Are there custody seals present on the cooler?	8. <u>Y</u> N	Are there custody seals present on bottles?
2. Y <u>N</u> N/A	Do custody seals on cooler appear to be tampered with?	9. Y <u>N</u> N/A	Do custody seals on bottles appear to be tampered with?
3. <u>Y</u> N	Were contents of cooler frisked after opening, but before unpacking?	10. Y N <u>N/A</u>	Was sample received with proper pH? (If not, make note below)
4. <u>Y</u> N	Sample received with Chain of Custody?	11. <u>Y</u> N	Sample received in proper containers?
5. <u>Y</u> N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12. Y <u>N</u> N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6. Y <u>N</u>	Was sample received broken?	13. Y N <u>N/A</u>	Was Internal COC/Workshare received?
7. <u>Y</u> N	Is sample volume sufficient for analysis?	14. Y N <u>N/A</u>	Was pH taken by original TestAmerica lab?

¹ For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes:

F10-019-011
011-154
115
138

Corrective Action:

- Client Contact Name: _____
- Sample(s) processed "as is"
- Sample(s) on hold until: _____
- Project Management Review: Jayna Pohl

Informed by: _____
 If released, notify: _____
 Date: 1-11-10

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

ADMIN-0004, REVISED 10/21/08 \\slsvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev11.doc

COLLECTOR: *Rosane Rust Turner Chamberlain*
 COMPANY CONTACT: DYEKMAN, DL
 TELEPHONE NO.: 373-2530
 PROJECT COORDINATOR: DYEKMAN, DL
 PRICE CODE: 8N
 DATA TURNAROUND: 45 Days / 45 Days
 AIR QUALITY:

SAMPLING LOCATION: C5860 (299-E29-54); I-126
 PROJECT DESIGNATION: ARRA 200-LW-2 OU Characterization Vadose Zone - Soil ("K" Well)
 SAF NO.: F10-011
 ICE CHEST NO.:
 FIELD LOGBOOK NO.: HNF-N-576-803 102
 ACTUAL SAMPLE DEPTH: 302.1-305.3'
 COA: 302143ES10
 METHOD OF SHIPMENT: GOVERNMENT VEHICLE

SHIPPED TO: TestAmerica St. Louis
 OFFSITE PROPERTY NO.: N/A
 BILL OF LADING/AIR BILL NO.: N/A 7931 7693 4897

MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)	PRESERVATION Cool~4C/Cool~4C																					
		TYPE OF CONTAINER G/P																					
		NO. OF CONTAINER(S) 1																					
		VOLUME 60mL																					
	SPECIAL HANDLING AND/OR STORAGE RADIOACTIVE TIE TO: B22RW6 Dec 1-13-10 B22T37	SAMPLE ANALYSIS Sulfides - 9030 (sumide)																					

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME																			
B22RW6	SOIL	1-5-10	1012																			

CHAIN OF POSSESSION		SIGN/ PRINT NAMES		SPECIAL INSTRUCTIONS	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	** The 200 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. <input type="checkbox"/>	
<i>Larry Rosane Rust Turner</i>	<i>1-5-10 / 1520</i>	<i>MO-413 SSURI</i>	<i>1-5-10 / 1520</i>		
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME		
<i>FedEx</i>		<i>A Brunson</i>	<i>1-14-10</i>		
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		

ORIGINAL

BORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

12 OF 24

TestAmerica St. Louis

Detailed Results

Enter tracking number

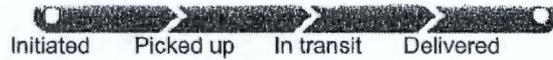
Track

Detailed Results	Notifications
------------------	---------------

Tracking no.: 793176934897

 E-mail notifications

Delivered



Delivered
Signed for by: B.DANIELS

Shipment Dates

Destination

Ship date  Jan 13, 2010

EARTH CITY, MO

Delivery date  Jan 14, 2010 9:20 AM

Signature Proof of Delivery 

Shipment Facts

[Help](#)

Service type	Priority Overnight	Delivered to	Shipping/Receiving
Weight	6.0 lbs/2.7 kg	Reference	3D230 300071 ES10

Shipment Travel History

[Help](#)

Select time zone: 

Select time format: 12H | 24H

All shipment travel activity is displayed in local time for the location

Date/Time	Activity	Location	Details
Jan 14, 2010 9:20 AM	Delivered	EARTH CITY, MO	
Jan 14, 2010 6:13 AM	On FedEx vehicle for delivery	EARTH CITY, MO	
Jan 14, 2010 6:08 AM	At local FedEx facility	EARTH CITY, MO	
Jan 14, 2010 5:13 AM	At dest sort facility	BERKELEY, MO	
Jan 14, 2010 4:28 AM	Departed FedEx location	MEMPHIS, TN	
Jan 14, 2010 12:32 AM	Arrived at FedEx location	MEMPHIS, TN	
Jan 13, 2010 5:18 PM	Left FedEx origin facility	PASCO, WA	
Jan 13, 2010 3:04 PM	Picked up	PASCO, WA	
Jan 13, 2010 1:29 PM	Shipment information sent to FedEx		

Lot #(s): FOA140562
567

CONDITION UPON RECEIPT FORM

Client: C, HPRC

Quote No: 84870/85053

COC/RFA No: X10-014-218; F10-011-175

Initiated By: AB Date: ⁶⁵ 1-14-10 Time: 9:30

Shipping Information

Shipper: FedEx UPS DHL Courier Client Other: _____ Multiple Packages: Y N

Shipping # (s):*		Sample Temperature (s):**	
1. <u>7931 7693 4897</u>	6. _____	1. <u>6</u>	6. _____
2. _____	7. _____	2. _____	7. _____
3. _____	8. _____	3. _____	8. _____
4. _____	9. _____	4. _____	9. _____
5. _____	10. _____	5. _____	10. _____

*Numbered shipping lines correspond to Numbered Sample Temp lines
**Sample must be received at 4°C ± 2°C- If not, note contents below. Temperature variance does NOT affect the following: Metals-Liquid or Rad tests- Liquid or Solids

Condition (Circle "Y" for yes, "N" for no and "N/A" for not applicable):

1. <u>Y</u> N	Are there custody seals present on the cooler?	8. <u>Y</u> N	Are there custody seals present on bottles?
2. Y <u>N</u> N/A	Do custody seals on cooler appear to be tampered with?	9. Y <u>N</u> N/A	Do custody seals on bottles appear to be tampered with?
3. <u>Y</u> N	Were contents of cooler frisked after opening, but before unpacking?	10. <u>Y</u> N N/A	Was sample received with proper pH? (If not, make note below)
4. <u>Y</u> N	Sample received with Chain of Custody?	11. <u>Y</u> N	Sample received in proper containers?
5. <u>Y</u> N N/A	Does the Chain of Custody match sample ID's on the container(s)?	12. Y N <u>N/A</u>	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
6. Y <u>N</u>	Was sample received broken?	13. Y N <u>N/A</u>	Was Internal COC/Workshare received?
7. <u>Y</u> N	Is sample volume sufficient for analysis?	14. Y N <u>N/A</u>	Was pH taken by original TestAmerica lab?

¹ For DOE-AL (Pantex, LANL, Sandia) sites, pH of ALL containers received must be verified, EXCEPT VOA, TOX and soils.

Notes:

Corrective Action:

- Client Contact Name: _____
- Sample(s) processed "as is"
- Sample(s) on hold until: _____
- Project Management Review: mit 21

Informed by: _____
If released, notify: _____
Date: 01-16-10

THIS FORM MUST BE COMPLETED AT THE TIME THE ITEMS ARE BEING CHECKED IN. IF ANY ITEM IS COMPLETED BY SOMEONE OTHER THAN THE INITIATOR, THEN THAT PERSON IS REQUIRED TO APPLY THEIR INITIAL AND THE DATE NEXT TO THAT ITEM.

WET CHEMISTRY

CH2M Hill Plateau Remediation (ARRA)

Client Sample ID: B22RV4

General Chemistry

Lot-Sample #...: FOA070534-001 Work Order #...: LRX5D Matrix.....: SOLID
 Date Sampled...: 12/29/09 Date Received...: 01/07/10
 % Moisture.....: 3.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Moisture	3.1	0.10	%	MCAWW 160.3 MOD MDL.....:	01/14-01/15/10	0014167
		Dilution Factor: 1				
Total Sulfide	ND	10.3	mg/kg	SW846 9030B/9034 MDL.....: 2.4	01/07-01/08/10	0011132
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

CH2M Hill Plateau Remediation (ARRA)

Client Sample ID: B22RR3

General Chemistry

Lot-Sample #....: FOA070534-002 Work Order #....: LRX5F Matrix.....: SOLID
 Date Sampled....: 12/17/09 Date Received...: 01/07/10
 % Moisture.....: 3.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Moisture	3.4	0.10	%	MCAWW 160.3 MOD MDL.....:	01/14-01/15/10	0014167
		Dilution Factor: 1				
Total Sulfide	ND	10.4	mg/kg	SW846 9030B/9034 MDL.....: 2.5	01/07-01/08/10	0011132
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

CH2M Hill Plateau Remediation (ARRA)

Client Sample ID: B22RT5

General Chemistry

Lot-Sample #....: F0A070534-003 Work Order #....: LRX5G Matrix.....: SOLID
 Date Sampled....: 12/28/09 Date Received...: 01/07/10
 % Moisture.....: 3.2

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	3.2	0.10	%	MCAWW 160.3 MOD MDL.....:	01/14-01/15/10	0014167
		Dilution Factor: 1				
Total Sulfide	ND	10.3	mg/kg	SW846 9030B/9034 MDL.....: 2.5	01/07-01/08/10	0011132
		Dilution Factor: 1				

NOTE(S):

RL Reporting Limit
 Results and reporting limits have been adjusted for dry weight.

CH2M Hill Plateau Remediation (ARRA)

Client Sample ID: B22RW6

General Chemistry

Lot-Sample #...: FOA140562-001 Work Order #...: LR7G5 Matrix.....: SOLID
 Date Sampled...: 01/05/10 Date Received...: 01/14/10
 % Moisture.....: 5.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Moisture	5.1	0.10	%	MCAWW 160.3 MOD	01/28/10	0021084
		Dilution Factor: 1		MDL.....:		
Total Sulfide	ND	10.5	mg/kg	SW846 9030B/9034	01/18-01/19/10	0018275
		Dilution Factor: 1		MDL.....: 2.5		

NOTE(S) :

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: SL846

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	PREP
		LIMIT	UNITS		ANALYSIS DATE	BATCH #
Total Sulfide	ND	Work Order #: LR2F41AA	MB Lot-Sample #: F0A110000-132	SW846 9030B/9034	01/07-01/08/10	0011132
		10.0	mg/kg			
		Dilution Factor: 1				
Total Sulfide	ND	Work Order #: LTDRV1AA	MB Lot-Sample #: F0A180000-275	SW846 9030B/9034	01/18-01/19/10	0018275
		10.0	mg/kg			
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL846

Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECVRY	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Sulfide	200	188	mg/kg	94	SW846 9030B/9034	01/07-01/08/10	0011132
				Work Order #: LR2F41AC LCS Lot-Sample#: FOA110000-132			
				Dilution Factor: 1			
Total Sulfide	200	188	mg/kg	94	SW846 9030B/9034	01/18-01/19/10	0018275
				Work Order #: LTDRV1AC LCS Lot-Sample#: FOA180000-275			
				Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: SL846

Matrix.....: SOLID

Date Sampled...: 12/29/09

Date Received...: 01/07/10

Percnt Moisture: 9.4

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Sulfide	ND	206	190	mg/kg	92	SW846 9030B/9	01/07-01/08/10	0011132
			Work Order #...: LRX5D1AE MS Lot-Sample #: FOA070534-001					
			Dilution Factor: 1					
Total Sulfide	ND	211	198	mg/kg	94	SW846 9030B/9	01/18-01/19/10	0018275
			Work Order #...: LR7G51AE MS Lot-Sample #: FOA140562-001					
			Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: FOA070534

Work Order #...: LRX5D-SMP
LRX5D-DUP

Matrix.....: SOLID

Date Sampled...: 12/29/09

Date Received...: 01/07/10

% Moisture.....: 3.1

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>RESULT</u>			<u>LIMIT</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Percent Moisture	3.1	3.7	%	16	(0-30)	MCAWW 160.3 MOD	01/14-01/15/10	0014167
			Dilution Factor: 1					

Total Sulfide

ND

ND

mg/kg 0
Dilution Factor: 1

SD Lot-Sample #: FOA070534-001
SW846 9030B/9034 01/07-01/08/10 0011132

