TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. SOIL PROJECT

Brown and Caldwell

Lot #: F7H290214

Patty Mata

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817

TESTAMERICA LABORATORIES, INC.

Ivan Vania
Project Manager

September 25, 2007

Case Narrative
LOT NUMBER: **F7H290214**

This report contains the analytical results for the 19 samples received under chain of custody by STL St. Louis on August 28, 2007. These samples are associated with your Brown and Caldwell project.

The analytical results included in this report meet all applicable quality control procedure requirements.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by STL St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

Observations/Nonconformances
Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

There were no nonconformances or observations noted with any analysis on this lot.

METHODS SUMMARY

F7H290214

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
ICP-MS (6020)	SW846 6020	
Percent Moisture	MCAWW 160.3 MOD	MCAWW 160.3 MOD

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

F7H290214

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
J5T6L	001	BGS-A2-52S	08/01/07	12:30
J5T6P	002	BGS-A2-52D	08/01/07	12:30
J5T6T	003	BGS-A2-42S	08/01/07	13:45
J5T6V	004	BGS-A2-42D	08/01/07	13:45
J5T60	005	BGS-A2-41S-1	08/01/07	14:45
J5T63	006	BGS-A2-41S-2	08/01/07	14:45
J5T67	007	BGS-A2-41D	08/01/07	14:45
J5T7C	008	BGS-A2-43S	08/01/07	15:30
J5T7F	009	BGS-A2-43D	08/01/07	15:30
J5T7J	010	BGS-A2-47S	08/02/07	13:15
J5T7L	011	BGS-A2-47D	08/02/07	13:15
J5T7N	012	BGS-A2-46S	08/02/07	12:30
J5T7T	013	BGS-A2-46D	08/02/07	12:30
J5T7V	014	BGS-A2-45S	08/02/07	11:15
J5T70	015	BGS-A2-45D	08/02/07	11:15
J5T72	016	BGS-A2-44S	08/02/07	10:30
J5T75	017	BGS-A2-44D	08/02/07	10:30
J5T77	018	BGS-A2-37S	08/02/07	08:15
J5T78	019	BGS-A2-37D	08/02/07	08:15

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.

TestAmerica Irvine

Client Sample ID: BGS-A2-52S

TOTAL Metals

Lot-Sample #...: F7H290214-001 **Matrix.....:** SOLID
Date Sampled...: 08/01/07 12:30 **Date Received..:** 08/28/07
% Moisture.....: 0.76

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**7.1**	**0.20**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T6L1AC**
		Dilution Factor: 1		Analysis Time..: 12:42		
Uranium	**1.0**	**0.10**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T6L1AD**
		Dilution Factor: 1		Analysis Time..: 12:42		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-52S

General Chemistry

Lot-Sample #...: F7H290214-001 **Work Order #...:** J5T6L **Matrix.....:** SOLID
Date Sampled...: 08/01/07 12:30 **Date Received..:** 08/28/07
% Moisture.....: 0.76

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**0.76**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A2-52D

TOTAL Metals

Lot-Sample #...: F7H290214-002 **Matrix.....:** SOLID
Date Sampled...: 08/01/07 12:30 **Date Received..:** 08/28/07
% Moisture.....: 1.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**6.6**	**0.20**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T6P1AC**
		Dilution Factor: 1		Analysis Time..: 13:05		
Uranium	**0.83**	**0.10**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T6P1AD**
		Dilution Factor: 1		Analysis Time..: 13:05		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-52D

General Chemistry

Lot-Sample #...: F7H290214-002 **Work Order #...:** J5T6P **Matrix.....:** SOLID
Date Sampled...: 08/01/07 12:30 **Date Received..:** 08/28/07
% Moisture.....: 1.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**1.2**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A2-42S

TOTAL Metals

Lot-Sample #...: F7H290214-003 **Matrix.....:** SOLID
Date Sampled...: 08/01/07 13:45 **Date Received..:** 08/28/07
% Moisture.....: 1.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**8.2**	**0.20**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T6T1AC**
		Dilution Factor: 1		Analysis Time..: 13:09		
Uranium	**2.2**	**0.10**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T6T1AD**
		Dilution Factor: 1		Analysis Time..: 13:09		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-42S

General Chemistry

Lot-Sample #...: F7H290214-003 **Work Order #...:** J5T6T **Matrix.....:** SOLID
Date Sampled...: 08/01/07 13:45 **Date Received..:** 08/28/07
% Moisture.....: 1.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**1.8**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A2-42D

TOTAL Metals

Lot-Sample #...: F7H290214-004 **Matrix.....:** SOLID
Date Sampled...: 08/01/07 13:45 **Date Received..:** 08/28/07
% Moisture.....: 2.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**8.4**	**0.20**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T6V1AC**
		Dilution Factor: 1		Analysis Time..: 13:13		
Uranium	**2.0**	**0.10**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T6V1AD**
		Dilution Factor: 1		Analysis Time..: 13:13		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-42D

General Chemistry

Lot-Sample #...: F7H290214-004 **Work Order #...:** J5T6V **Matrix.....:** SOLID
Date Sampled...: 08/01/07 13:45 **Date Received..:** 08/28/07
% Moisture.....: 2.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.2**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A2-41S-1

TOTAL Metals

Lot-Sample #...: F7H290214-005 **Matrix.....:** SOLID
Date Sampled...: 08/01/07 14:45 **Date Received..:** 08/28/07
% Moisture.....: 1.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**9.1**	**0.20**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T601AC**
		Dilution Factor: 1		Analysis Time..: 13:16		
Uranium	**1.6**	**0.10**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T601AD**
		Dilution Factor: 1		Analysis Time..: 13:16		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-41S-1

General Chemistry

Lot-Sample #...: F7H290214-005 **Work Order #...:** J5T60 **Matrix.....:** SOLID
Date Sampled...: 08/01/07 14:45 **Date Received..:** 08/28/07
% Moisture.....: 1.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**1.3**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A2-41S-2

TOTAL Metals

Lot-Sample #...: F7H290214-006 **Matrix.....:** SOLID
Date Sampled...: 08/01/07 14:45 **Date Received..:** 08/28/07
% Moisture.....: 1.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**7.0**	**0.20**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T631AC**
		Dilution Factor: 1		Analysis Time..: 13:20		
Uranium	**1.5**	**0.10**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T631AD**
		Dilution Factor: 1		Analysis Time..: 13:20		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-41S-2

General Chemistry

Lot-Sample #...: F7H290214-006 **Work Order #...:** J5T63 **Matrix.....:** SOLID
Date Sampled...: 08/01/07 14:45 **Date Received..:** 08/28/07
% Moisture.....: 1.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**1.2**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A2-41D

TOTAL Metals

Lot-Sample #...: F7H290214-007 **Matrix.....:** SOLID
Date Sampled...: 08/01/07 14:45 **Date Received..:** 08/28/07
% Moisture.....: 2.1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**8.7**	**0.20**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T671AC**
		Dilution Factor: 1		Analysis Time..: 13:23		
Uranium	**2.2**	**0.10**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T671AD**
		Dilution Factor: 1		Analysis Time..: 13:23		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-41D

General Chemistry

Lot-Sample #...: F7H290214-007 **Work Order #...:** J5T67 **Matrix.....:** SOLID
Date Sampled...: 08/01/07 14:45 **Date Received..:** 08/28/07
% Moisture.....: 2.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.1**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A2-43S

TOTAL Metals

Lot-Sample #...: F7H290214-008 **Matrix.....:** SOLID
Date Sampled...: 08/01/07 15:30 **Date Received..:** 08/28/07
% Moisture.....: 5.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**10.7**	**0.21**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T7C1AC**
		Dilution Factor: 1		Analysis Time..: 13:27		
Uranium	**2.2**	**0.11**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T7C1AD**
		Dilution Factor: 1		Analysis Time..: 13:27		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-43S

General Chemistry

Lot-Sample #...: F7H290214-008 **Work Order #...:** J5T7C **Matrix.....:** SOLID
Date Sampled...: 08/01/07 15:30 **Date Received..:** 08/28/07
% Moisture.....: 5.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**5.4**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A2-43D

TOTAL Metals

Lot-Sample #...: F7H290214-009 **Matrix.....:** SOLID
Date Sampled...: 08/01/07 15:30 **Date Received..:** 08/28/07
% Moisture.....: 0.78

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**5.6**	**0.20**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T7F1AC**
		Dilution Factor: 1		Analysis Time..: 13:31		
Uranium	**1.3**	**0.10**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T7F1AD**
		Dilution Factor: 1		Analysis Time..: 13:31		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-43D

General Chemistry

Lot-Sample #...: F7H290214-009 **Work Order #...:** J5T7F **Matrix.....:** SOLID
Date Sampled...: 08/01/07 15:30 **Date Received..:** 08/28/07
% Moisture.....: 0.78

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**0.78**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A2-47S

TOTAL Metals

Lot-Sample #...: F7H290214-010 **Matrix.....:** SOLID
Date Sampled...: 08/02/07 13:15 **Date Received..:** 08/28/07
% Moisture.....: 1.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**11.8**	**0.20**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T7J1AC**
		Dilution Factor: 1		Analysis Time..: 13:34		
Uranium	**1.7**	**0.10**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T7J1AD**
		Dilution Factor: 1		Analysis Time..: 13:34		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-47S

General Chemistry

Lot-Sample #...: F7H290214-010 **Work Order #...:** J5T7J **Matrix.....:** SOLID
Date Sampled...: 08/02/07 13:15 **Date Received..:** 08/28/07
% Moisture.....: 1.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**1.3**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A2-47D

TOTAL Metals

Lot-Sample #...: F7H290214-011 **Matrix.....:** SOLID
Date Sampled...: 08/02/07 13:15 **Date Received..:** 08/28/07
% Moisture.....: 2.5

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**4.6**	**0.21**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T7L1AC**
		Dilution Factor: 1		Analysis Time..: 13:38		
Uranium	**0.70**	**0.10**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T7L1AD**
		Dilution Factor: 1		Analysis Time..: 13:38		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-47D

General Chemistry

Lot-Sample #...: F7H290214-011 **Work Order #...:** J5T7L **Matrix.....:** SOLID
Date Sampled...: 08/02/07 13:15 **Date Received..:** 08/28/07
% Moisture.....: 2.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.5**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A2-46S

TOTAL Metals

Lot-Sample #...: F7H290214-012 **Matrix.....:** SOLID
Date Sampled...: 08/02/07 12:30 **Date Received..:** 08/28/07
% Moisture.....: 4.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**8.5**	**0.21**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T7N1AC**
		Dilution Factor: 1		Analysis Time..: 13:50		
Uranium	**0.98**	**0.10**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T7N1AD**
		Dilution Factor: 1		Analysis Time..: 13:50		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-46S

General Chemistry

Lot-Sample #...: F7H290214-012 **Work Order #...:** J5T7N **Matrix.....:** SOLID
Date Sampled...: 08/02/07 12:30 **Date Received..:** 08/28/07
% Moisture.....: 4.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**4.2**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A2-46D

TOTAL Metals

Lot-Sample #...: F7H290214-013 **Matrix.....:** SOLID
Date Sampled...: 08/02/07 12:30 **Date Received..:** 08/28/07
% Moisture.....: 3.6

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**5.8**	**0.21**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T7T1AC**
		Dilution Factor: 1		Analysis Time..: 13:54		
Uranium	**0.91**	**0.10**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T7T1AD**
		Dilution Factor: 1		Analysis Time..: 13:54		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-46D

General Chemistry

Lot-Sample #...: F7H290214-013 **Work Order #...:** J5T7T **Matrix.....:** SOLID
Date Sampled...: 08/02/07 12:30 **Date Received..:** 08/28/07
% Moisture.....: 3.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**3.6**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A2-45S

TOTAL Metals

Lot-Sample #...: F7H290214-014 **Matrix.....:** SOLID
Date Sampled...: 08/02/07 11:15 **Date Received..:** 08/28/07
% Moisture.....: 2.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**12.8**	**0.20**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T7V1AC**
		Dilution Factor: 1		Analysis Time..: 13:57		
Uranium	**1.8**	**0.10**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T7V1AD**
		Dilution Factor: 1		Analysis Time..: 13:57		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-45S

General Chemistry

Lot-Sample #...: F7H290214-014 **Work Order #...:** J5T7V **Matrix.....:** SOLID
Date Sampled...: 08/02/07 11:15 **Date Received..:** 08/28/07
% Moisture.....: 2.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.4**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A2-45D

TOTAL Metals

Lot-Sample #...: F7H290214-015 **Matrix.....:** SOLID
Date Sampled...: 08/02/07 11:15 **Date Received..:** 08/28/07
% Moisture.....: 2.1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**9.2**	**0.20**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T701AC**
		Dilution Factor: 1		Analysis Time..: 14:01		
Uranium	**2.9**	**0.10**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T701AD**
		Dilution Factor: 1		Analysis Time..: 14:01		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-45D

General Chemistry

Lot-Sample #...: F7H290214-015 **Work Order #...:** J5T70 **Matrix.....:** SOLID
Date Sampled...: 08/02/07 11:15 **Date Received..:** 08/28/07
% Moisture.....: 2.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.1**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A2-44S

TOTAL Metals

Lot-Sample #...: F7H290214-016 **Matrix.....:** SOLID
Date Sampled...: 08/02/07 10:30 **Date Received..:** 08/28/07
% Moisture.....: 1.7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**11.0**	**0.20**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T721AC**
		Dilution Factor: 1		Analysis Time..: 14:05		
Uranium	**1.5**	**0.10**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T721AD**
		Dilution Factor: 1		Analysis Time..: 14:05		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-44S

General Chemistry

Lot-Sample #...: F7H290214-016 **Work Order #...:** J5T72 **Matrix.....:** SOLID
Date Sampled...: 08/02/07 10:30 **Date Received..:** 08/28/07
% Moisture.....: 1.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**1.7**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A2-44D

TOTAL Metals

Lot-Sample #...: F7H290214-017 **Matrix.....:** SOLID
Date Sampled...: 08/02/07 10:30 **Date Received..:** 08/28/07
% Moisture.....: 2.5

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**8.9**	**0.21**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T751AC**
		Dilution Factor: 1		Analysis Time..: 14:09		
Uranium	**1.8**	**0.10**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T751AD**
		Dilution Factor: 1		Analysis Time..: 14:09		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-44D

General Chemistry

Lot-Sample #...: F7H290214-017 **Work Order #...:** J5T75 **Matrix.....:** SOLID
Date Sampled...: 08/02/07 10:30 **Date Received..:** 08/28/07
% Moisture.....: 2.5

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.5**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A2-37S

TOTAL Metals

Lot-Sample #...: F7H290214-018 **Matrix.....:** SOLID
Date Sampled...: 08/02/07 08:15 **Date Received..:** 08/28/07
% Moisture.....: 2.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**4.9**	**0.20**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T771AC**
		Dilution Factor: 1		Analysis Time..: 14:12		
Uranium	**2.1**	**0.10**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T771AD**
		Dilution Factor: 1		Analysis Time..: 14:12		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-37S

General Chemistry

Lot-Sample #...: F7H290214-018 **Work Order #...:** J5T77 **Matrix.....:** SOLID
Date Sampled...: 08/02/07 08:15 **Date Received..:** 08/28/07
% Moisture.....: 2.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.3**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

TestAmerica Irvine

Client Sample ID: BGS-A2-37D

TOTAL Metals

Lot-Sample #...: F7H290214-019 **Matrix.....:** SOLID
Date Sampled...: 08/02/07 08:15 **Date Received..:** 08/28/07
% Moisture.....: 2.7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253088						
Thorium	**6.3**	**0.21**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T781AC**
		Dilution Factor: 1		Analysis Time..: 14:16		
Uranium	**1.7**	**0.10**	**mg/kg**	**SW846 6020**	**09/20-09/21/07**	**J5T781AD**
		Dilution Factor: 1		Analysis Time..: 14:16		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-37D

General Chemistry

Lot-Sample #...: F7H290214-019 **Work Order #...:** J5T78 **Matrix.....:** SOLID
Date Sampled...: 08/02/07 08:15 **Date Received..:** 08/28/07
% Moisture.....: 2.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.7**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242127**

Dilution Factor: 1 Analysis Time..: 00:00

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F7H290214 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F7I100000-088 **Prep Batch #...:** 7253088						
Thorium	ND	0.20	mg/kg	SW846 6020	09/20-09/21/07	J6GF71AA
		Dilution Factor: 1				
		Analysis Time..: 12:35				
Uranium	ND	0.10	mg/kg	SW846 6020	09/20-09/21/07	J6GF71AC
		Dilution Factor: 1				
		Analysis Time..: 12:35				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: F7H290214 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: F7I100000-088 **Prep Batch #...:** 7253088					
Thorium	98	(80 - 120)	SW846 6020	09/20-09/21/07	J6GF71AD
		Dilution Factor: 1	Analysis Time..: 12:38		
Uranium	101	(80 - 120)	SW846 6020	09/20-09/21/07	J6GF71AE
		Dilution Factor: 1	Analysis Time..: 12:38		

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: F7H290214 **Matrix.....:** SOLID
Date Sampled...: 08/01/07 12:30 **Date Received..:** 08/28/07

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: F7H290214-001 **Prep Batch #...:** 7253088							
						% Moisture.....: 0.76	
Thorium	114	(75 - 125)			SW846 6020	09/20-09/21/07	J5T6L1AE
	102	(75 - 125)	9.7	(0-30)	SW846 6020	09/20-09/21/07	J5T6L1AF
		Dilution Factor: 1					
		Analysis Time..: 12:50					
Uranium	117	(75 - 125)			SW846 6020	09/20-09/21/07	J5T6L1AG
	106	(75 - 125)	10	(0-30)	SW846 6020	09/20-09/21/07	J5T6L1AH
		Dilution Factor: 1					
		Analysis Time..: 12:50					

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 #...: F7H290214 **Work Order #...:** J5T78-SMP J5T78-DUP **Matrix.....:** SOLID

Date Sampled...: 08/02/07 08:15 **Date Received..:** 08/28/07

% Moisture.....: 2.7

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture						SD Lot-Sample #:	F7H290214-019	
	2.7	2.9	%	7.9	(0-30)	MCAWW 160.3 MOD	08/30-08/31/07	7242127

Dilution Factor: 1 Analysis Time..: 00:00

BROWN AND CALDWELL

CHAIN OF CUSTODY RECORD

COC No._____

☐ 3264 Goni Road / Suite 153
Carson City, NV 89706
775-883-4118 / FAX 775-883-5108

☐ 4425 W. Spring Mountain Road / Suite 225
Las Vegas, NV 89102
702-938-4080 / FAX 702-938-4082

☐ 201 East Washington Street / Suite 500
Phoenix, AZ 85004
602-567-4000 / FAX 602-567-4001

PROJECT NAME: Yerington Mine Site
PROJECT NUMBER: 132039
LABORATORY NAME & ADDRESS:

LINE NO.	SAMPLE – I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESER-VATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC – REQ	TAT	SAMPLING METHOD	DEPTH (FT.) BEGIN END	PID READING (ppm)
01	BGS-A2-47S	8/2/07	13:15	BB	1	9oz	NONE	S	U, Th (SW6020)					----	
02	BGS-A2-47D													----	
03	BGS-A2-46S		12:30											----	
04	BGS-A2-46D													----	
05	BGS-A2-45S		11:15											----	
06	BGS-A2-45D													----	
07	BGS-A2-44S		10:30											----	
08	BGS-A2-44D													----	
09	BGS-A1-37S		08:15											----	
10	BGS-A1-37D													----	

COLLECTED & RELEASED BY:	DATE 8/24/07	TIME 11:00	COOLER I.D.:		COMMENTS (see note on back):
RECEIVED BY: 08-28-07	DATE	TIME 0700	RELINQUISHED BY:	DATE / /	TIME :
RECORD RETURNED BY:	DATE / /	TIME :			Enfos Billing
COURIER:			SHIPPING NUMBER:		001KF-0109

DISTRIBUTION: WHITE – PROJECT FILE • CANARY – LAB RECEIPT • PINK – DATA MANAGEMENT • GOLDENROD – FIELD

USE A BALLPOINT PEN, BLACK INK, AND PRESS FIRMLY. INSTRUCTIONS ARE ON THE BACK.

TestAmerica St. Louis

BROWN AND CALDWELL

CHAIN OF CUSTODY RECORD

COC No._____

☐ 3264 Goni Road / Suite 153
Carson City, NV 89706
775-883-4118 / FAX 775-883-5108

☐ 4425 W. Spring Mountain Road / Suite 225
Las Vegas, NV 89102
702-938-4080 / FAX 702-938-4082

☐ 201 East Washington Street / Suite 500
Phoenix, AZ 85004
602-567-4000 / FAX 602-567-4001

PROJECT NAME: Yerington Mine Site

PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS:

LINE NO.	SAMPLE – I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESERVATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC – REQ	TAT	SAMPLING METHOD	DEPTH (FT.) BEGIN / END	PID READING (ppm)
01	BGS-A2-52S	8/1/07	12:30	BB	1	9oz	NONE	S	U, Th (SW6020)		M			----	
02	BGS-A2-52D	↓	|	↓	↓	↓	↓	↓	↓					----	
03	BGS-A2-42S	↓	13:45	↓	↓	↓	↓	↓	↓		M			----	
04	BGS-A2-42D	↓	|	↓	↓	↓	↓	↓	↓					----	
05	BGS-A2-41S-1	↓	14:45	↓	↓	↓	↓	↓	↓					----	
06	BGS-A2-41S-2	↓	|	↓	↓	↓	↓	↓	↓					----	
07	BGS-A2-41D	↓	|	↓	↓	↓	↓	↓	↓					----	
08	BGS-A2-43S	↓	15:30	↓	↓	↓	↓	↓	↓					----	
09	BGS-A2-43D	↓	|	↓	↓	↓	↓	↓	↓					----	
10														----	

COLLECTED & RELEASED BY: [signature]	DATE 8/24/07	TIME 11:00	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY: [signature] 08.28.07	DATE 7/09	TIME 0:0	RELINQUISHED BY:	DATE / /	TIME :	
RECORD RETURNED BY:	DATE / /	TIME :				Enfos Billing
COURIER:			SHIPPING NUMBER:			001KF-0109

DISTRIBUTION: WHITE – PROJECT FILE • CANARY – LAB RECEIPT • PINK – DATA MANAGEMENT • GOLDENROD – FIELD

USE A BALLPOINT PEN, BLACK INK, AND PRESS FIRMLY. INSTRUCTIONS ARE ON THE BACK.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): F7H290155- F7H290227, 264
200- 235-
206- 249-
214- 265

- 145 -

Condition Upon Receipt Form

Client: Brown & Caldwell COC/RFA No: N/A Date: 8/28/07
Quote No: 76496 Initiated By: BN / BN Time: 0900

Shipping Information

Shipper Name: FE

Multiple Packages (Y) N

Shipping # (s):*

1.	7413- 7409-1524	6.	
2.	1546	7.	
3.	1557	8.	
4.		9.	
5.		10.	

Sample Temperature (s):**

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

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

Notes: Custody seals were placed on top of coolers, not at seam.
Samples received out of temp.

Corrective Action:
☐ Client Contact Name: Informed by:
☐ Sample(s) processed "as is"
☐ Sample(s) on hold until: If released, notify:
Project Management Review: [signature] Date: 9-5-7

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 08/06/07\\Slsvr01\QA\FORMS\ST-LOUIS\ADMIN\Admin004 rev11.doc