ENVIRONMENTAL STANDARDS
Setting the Standards for Innovative Environmental Solutions

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October 31, 2007

Ms. Penny Bassett
Brown and Caldwell
3264 Goni Road, Suite 153
Carson City, NV 89706

Dear Ms. Bassett:

Enclosed is the quality assurance review of the analytical data for the analyses of the soil samples that were collected on August 14 and 15, 2007, in association with the ARCO Yerington Mine Site. The samples were analyzed for thorium and uranium by an ICP/MS method.

Based on this quality assurance review, the results for thorium and uranium in two samples were qualified as estimated due to field duplicate imprecision.

If you have any questions or comments, please do not hesitate to call.

Sincerely,

Konstadina Vlahogiani, M.S.
Senior Quality Assurance Chemist III/
Project Manager

Concurred by:

Rock J. Vitale, CEAC, CPC
Technical Director of Chemistry/
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ENVIRONMENTAL STANDARDS
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QUALITY ASSURANCE REVIEW

OF THE SOIL SAMPLES COLLECTED

AT THE ARCO YERINGTON MINE SITE

ON AUGUST 14 AND 15, 2007

October 31, 2007

Prepared for:

ATLANTIC RICHFIELD COMPANY
28100 Torch Parkway
Warrenville, IL 60555

Prepared by:

ENVIRONMENTAL STANDARDS, INC.
1140 Valley Forge Road
P.O. Box 810
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Issued to:

BROWN AND CALDWELL
3264 Goni Road, Suite 153
Carson City, NV 89706

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1.0 Introduction

This quality assurance (QA) review is based upon a rigorous examination of all data generated from the analyses of the soil samples that were collected by Brown and Caldwell on August 14 and 15, 2007, in association with the ARCO Yerington Mine Site. The samples included in this QA review are specified on Table 1.

This review has been performed with guidance from the "National Functional Guidelines for Inorganic Data Review" (US EPA, February 1994). This document has been used to aid the data reviewer in the interpretation of the QC analysis results and in the overall evaluation of the sample data deliverables. It should be noted, however, that results affected by blank contamination will be designated with a "UJ" qualifier (not the "U" qualifier typically used when following the National Functional Guidelines) in order to be consistent with historical project validation protocols and the current project database.

The reported analytical results are presented as a summary of the data in Section 2. Data were examined to determine the usability of the analytical results and the compliance relative to the requirements specified in the published analytical methods, the Quality Assurance Project Plan (QAPjP) for the Atlantic Richfield Company Yerington Mine Site, Revision 1 (May 2007), and the Technical Requirements For Environmental Laboratory Analytical Services BP Global Contract Lab Network (GCLN) (5/22/02, Revision 08). Qualifier codes have been placed next to results to enable the data user to quickly assess the qualitative and/or quantitative reliability of any result. This critical QA review identifies data quality issues for specific samples and specific evaluation criteria. The data qualifications allow the data's end-user to best understand the usability of the analytical results. Data not qualified in this report should be considered valid based on the QC criteria that have been reviewed. Details of this QA review are presented in Section 1 of this report. This report was prepared to provide a critical review of the laboratory analyses and reported analytical results. Rigorous QA reviews of laboratory-generated data routinely identify various problems associated with analytical measurements, even from the most experienced and capable laboratories.

TABLE 1

SAMPLES INCLUDED IN THIS QUALITY ASSURANCE REVIEW

Field Sample Identification	Laboratory Sample Identification	Project Number	Matrix	Date Sample Collected	Parameters Examined
BGS-A2-59S	F7H290235-001	F7H290235	Soil	8/14/07	Th, U
BGS-A2-59SMS (Matrix Spike)	F7H290235-001S	F7H290235	Soil	8/14/07	Th, U
BGS-A2-59SMSD (Matrix Spike Duplicate)	F7H290235-001D	F7H290235	Soil	8/14/07	Th, U
BGS-A2-59D	F7H290235-002	F7H290235	Soil	8/14/07	Th, U
BGS-A2-58S	F7H290235-003	F7H290235	Soil	8/14/07	Th, U
BGS-A2-58D	F7H290235-004	F7H290235	Soil	8/14/07	Th, U
BGS-A2-57S	F7H290235-005	F7H290235	Soil	8/14/07	Th, U
BGS-A2-57D	F7H290235-006	F7H290235	Soil	8/14/07	Th, U
BGS-A2-60S	F7H290235-007	F7H290235	Soil	8/14/07	Th, U
BGS-A2-60D	F7H290235-008	F7H290235	Soil	8/14/07	Th, U
BGS-A2-56S	F7H290235-009	F7H290235	Soil	8/14/07	Th, U
BGS-A2-56D	F7H290235-010	F7H290235	Soil	8/14/07	Th, U
BGS-A2-49S	F7H290235-011	F7H290235	Soil	8/14/07	Th, U
BGS-A2-49D	F7H290235-012	F7H290235	Soil	8/14/07	Th, U
BGS-A2-50S	F7H290235-013	F7H290235	Soil	8/14/07	Th, U
BGS-A2-50D	F7H290235-014	F7H290235	Soil	8/14/07	Th, U
BGS-A2-48S	F7H290235-015	F7H290235	Soil	8/14/07	Th, U
BGS-A2-48D	F7H290235-016	F7H290235	Soil	8/14/07	Th, U
BGS-A2-51S	F7H290235-017	F7H290235	Soil	8/14/07	Th, U
BGS-A2-51D-1	F7H290235-018	F7H290235	Soil	8/14/07	Th, U
BGS-A2-51D-2 (Field Duplicate of BGS-A2-51D-1)	F7H290235-019	F7H290235	Soil	8/14/07	Th, U
BGS-A2-51E (Equipment Blank)	F7H290235-020	F7H290235	Aq	8/14/07	Th, U
BGS-A2-51EMS (Matrix Spike)	F7H290235-020S	F7H290235	Aq	8/14/07	Th, U

TABLE 1 (Cont.)

Field Sample Identification	Laboratory Sample Identification	Project Number	Matrix	Date Sample Collected	Parameters Examined
BGS-A2-51EMSD (Matrix Spike Duplicate)	F7H290235-020D	F7H290235	Aq	8/14/07	Th, U
BGS-A1-14S	F7H290227-001	F7H290227	Soil	8/15/07	Th, U
BGS-A1-14SMS (Matrix Spike)	F7H290227-001S	F7H290227	Soil	8/15/07	Th, U
BGS-A1-14SMSD (Matrix Spike Duplicate)	F7H290227-001D	F7H290227	Soil	8/15/07	Th, U
BGS-A1-14D	F7H290227-002	F7H290227	Soil	8/15/07	Th, U
BGS-A1-05S	F7H290227-003	F7H290227	Soil	8/15/07	Th, U
BGS-A1-05D	F7H290227-004	F7H290227	Soil	8/15/07	Th, U
BGS-A1-02S	F7H290227-005	F7H290227	Soil	8/15/07	Th, U
BGS-A1-02D	F7H290227-006	F7H290227	Soil	8/15/07	Th, U
BGS-A1-06S	F7H290227-007	F7H290227	Soil	8/15/07	Th, U
BGS-A1-06D	F7H290227-008	F7H290227	Soil	8/15/07	Th, U
BGS-A2-53S	F7H290227-009	F7H290227	Soil	8/15/07	Th, U
BGS-A2-53D	F7H290227-010	F7H290227	Soil	8/15/07	Th, U

NOTES:

Th - Thorium by SW-846 Method 6020.
U - Uranium by SW-846 Method 6020.
Aq - Aqueous.

2.0 Findings

Complete support documentation for this inorganic QA review is presented in Section 8.0 of this report. The cover sheet for this section is a checklist of all QA procedures required by the protocols and examined in this data review.

ICP/MS Metals Analysis

Including quality control (QC) samples, 33 soil samples and three aqueous blanks were analyzed for thorium and uranium by SW-846 Method 6020. The findings offered in this report for this fraction are based on the items on the following table.

Item Reviewed	Acceptable	Acceptable With Discussion	Acceptable With Qualification	Not Acceptable
Holding Times	√			
Sample Condition Upon Receipt	√			
Blank Analysis Results	√			
MS/MSD Recoveries and Precision	√			
LCS Recoveries	√			
Field Duplicate Precision			√	
Detection Limits/Sensitivity	√			
Calibrations	√			
RL Standard Recoveries	√			
ICP/MS Interference Check Samples	√			
Analytical Sequence	√			
Sample Preparation	√			
Quantitation of Positive Results	√			
A Critical Evaluation of Instrumental Raw Data	√			

Field Duplicate Precision: Acceptable precision and sample representativeness were not observed (relative percent difference [RPD] was > 40%) between the thorium and uranium positive results reported in sample BGS-A2-51D-1 and its field duplicate, sample BGS-A2-51D-2. The positive results for thorium and uranium in the field duplicate samples should be considered estimated and have been flagged "J" on the data tables.

3.0 Qualifier Summary Tables

Analytes	Project Number	Samples	Validation Qualifier	Reason for Qualification
thorium and uranium	F7H290235	BGS-A2-51D-1 and BGS-A2-51D-2	J	8 – Field duplicate precision outside of limits

4.0 Overall Assessment

Based on this quality assurance review, the results for thorium and uranium in two samples were qualified as estimated due to field duplicate imprecision.

5.0 Inorganic Data Qualifiers and Valid Reason Codes

Inorganic Data Qualifiers

U Analyte not detected at the detection limit concentration.

J Reported value is an estimated concentration.

UJ Analyte not detected at an estimated detection limit concentration.

R These data were rejected and were not used for any purposes.

UR The analyte was not detected. The detection limit is unreliable and may be representative of a false negative. These data were rejected and are not usable for any purpose.

Valid Reason Codes

1 Holding time violation
2 Method blank contamination
3 Surrogate recovery
4 Matrix spike/matrix spike duplicate recovery
5 Matrix spike/matrix spike duplicate precision outside limits
6 Laboratory control sample recovery
7 Field blank contamination
8 Field duplicate precision outside limits
9 Other deficiencies (including cooler temperature)
A Absence of supporting QC
S ICV, CCV or column performance check problem
Y Initial and continuing calibration blank problem
M Interference check samples problem
O Post-digestion spike outside of 85-115%
F MSA correlation coefficient <0.995, or MSA not done
G Serial dilution problem
K DFTPP or BFB tuning problem
Q Initial calibration problem
X Internal standard recovery problem
V Second source standard calibration verification problem
L Low bias
Z Retention time problem
N Counting time error (radionuclide chemistry)
W Detector instability (radionuclide chemistry)
C Co-elution of compounds
E Value exceeds linear calibration range
I Interferences present during analysis

Valid Reason Codes(Cont.)

T	Trace level compound, poor quantitation
P	1C/2C precision outside of limits
B	LCS/LCSD precision outside limits
D	Lab Dup/Rep precision outside limits
H	High bias

6.0 Signatures

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7.0 ANALYTICAL RESULTS

Arco - Yerington
SDG: F7H290227

			Lab Sample	F7H290227001					F7H290227002				
			Field Sample	BGS-A1-14S					BGS-A1-14D				
			Collect Date	8/15/2007 7:30:00 AM					8/15/2007 7:30:00 AM				
			Type	N					N				
			Parent										
Method	**CAS Number**	**Chemical Name**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
SW6020	7440-29-	Thorium	MG/KG	7.3		0.0417	0.21	0	11.9		0.0417	0.21	0
	7440-61-	Uranium	MG/KG	0.95		0.02	0.1	0	2.6		0.02	0.11	0

			Lab Sample	F7H290227003					F7H290227004				
			Field Sample	BGS-A1-05S					BGS-A1-05D				
			Collect Date	8/15/2007 8:30:00 AM					8/15/2007 8:30:00 AM				
			Type	N					N				
			Parent										
Method	**CAS Number**	**Chemical Name**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
SW6020	7440-29-	Thorium	MG/KG	5.5		0.0417	0.21	0	8.9		0.0417	0.21	0
	7440-61-	Uranium	MG/KG	0.93		0.02	0.1	0	0.98		0.02	0.1	0

			Lab Sample	F7H290227005					F7H290227006				
			Field Sample	BGS-A1-02S					BGS-A1-02D				
			Collect Date	8/15/2007 9:45:00 AM					8/15/2007 9:45:00 AM				
			Type	N					N				
			Parent										
Method	**CAS Number**	**Chemical Name**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
SW6020	7440-29-	Thorium	MG/KG	6.9		0.0417	0.21	0	9		0.0417	0.21	0
	7440-61-	Uranium	MG/KG	0.95		0.02	0.1	0	1.4		0.02	0.1	0

			Lab Sample	F7H290227007					F7H290227008				
			Field Sample	BGS-A1-06S					BGS-A1-06D				
			Collect Date	8/15/2007 10:45:00 AM					8/15/2007 10:45:00 AM				
			Type	N					N				
			Parent										
Method	**CAS Number**	**Chemical Name**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
SW6020	7440-29-	Thorium	MG/KG	4.1		0.0417	0.21	0	7.5		0.0417	0.21	0
	7440-61-	Uranium	MG/KG	0.57		0.02	0.1	0	1.1		0.02	0.1	0

			Lab Sample	F7H290227009					F7H290227010				
			Field Sample	BGS-A2-53S					BGS-A2-53D				
			Collect Date	8/15/2007 12:30:00 PM					8/15/2007 12:30:00 PM				
			Type	N					N				
			Parent										
Method	**CAS Number**	**Chemical Name**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
SW6020	7440-29-	Thorium	MG/KG	9.6		0.0417	0.21	0	8.1		0.0417	0.21	0
	7440-61-	Uranium	MG/KG	1.7		0.02	0.1	0	2		0.02	0.11	0

Arco - Yerington
SDG: F7H290235

			Lab Sample	F7H290235001					F7H290235002				
			Field Sample	BGS-A2-59S					BGS-A2-59D				
			Collect Date	8/14/2007 8:00:00 AM					8/14/2007 8:00:00 AM				
			Type	N					N				
			Parent										
Method	**CAS Number**	**Chemical Name**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
SW6020	7440-29-1	Thorium	MG/KG	5.7		0.0417	0.2	0	4		0.0417	0.2	0
			UG/L										
	7440-61-1	Uranium	MG/KG	1		0.02	0.1	0	0.63		0.02	0.1	0
			UG/L										

			Lab Sample	F7H290235003					F7H290235004				
			Field Sample	BGS-A2-58S					BGS-A2-58D				
			Collect Date	8/14/2007 8:30:00 AM					8/14/2007 8:30:00 AM				
			Type	N					N				
			Parent										
Method	**CAS Number**	**Chemical Name**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
SW6020	7440-29-1	Thorium	MG/KG	7.8		0.0417	0.21	0	6.6		0.0417	0.21	0
			UG/L										
	7440-61-1	Uranium	MG/KG	1		0.02	0.1	0	1.3		0.02	0.1	0
			UG/L										

			Lab Sample	F7H290235005					F7H290235006				
			Field Sample	BGS-A2-57S					BGS-A2-57D				
			Collect Date	8/14/2007 9:15:00 AM					8/14/2007 9:15:00 AM				
			Type	N					N				
			Parent										
Method	**CAS Number**	**Chemical Name**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
SW6020	7440-29-1	Thorium	MG/KG	8.2		0.0417	0.2	0	6.9		0.0417	0.21	0
			UG/L										
	7440-61-1	Uranium	MG/KG	1.1		0.02	0.1	0	1.9		0.02	0.1	0
			UG/L										

			Lab Sample	F7H290235007					F7H290235008				
			Field Sample	BGS-A2-60S					BGS-A2-60D				
			Collect Date	8/14/2007 10:15:00 AM					8/14/2007 10:15:00 AM				
			Type	N					N				
			Parent										
Method	**CAS Number**	**Chemical Name**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
SW6020	7440-29-1	Thorium	MG/KG	6.3		0.0417	0.2	0	11.9		0.0417	0.2	0
			UG/L										
	7440-61-1	Uranium	MG/KG	1		0.02	0.1	0	3.2		0.02	0.1	0
			UG/L										

			Lab Sample	F7H290235009					F7H290235010				
			Field Sample	BGS-A2-56S					BGS-A2-56D				
			Collect Date	8/14/2007 10:45:00 AM					8/14/2007 10:45:00 AM				
			Type	N					N				
			Parent										
Method	**CAS Number**	**Chemical Name**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
SW6020	7440-29-1	Thorium	MG/KG	7.5		0.0417	0.21	0	28.2		0.0417	0.21	0
			UG/L										
	7440-61-1	Uranium	MG/KG	1.1		0.02	0.1	0	3.8		0.02	0.1	0
			UG/L										

			Lab Sample	F7H290235011					F7H290235012				
			Field Sample	BGS-A2-49S					BGS-A2-49D				
			Collect Date	8/14/2007 11:45:00 AM					8/14/2007 11:45:00 AM				
			Type	N					N				
			Parent										
Method	**CAS Number**	**Chemical Name**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
SW6020	7440-29-1	Thorium	MG/KG	8.2		0.0417	0.2	0	7.5		0.0417	0.21	0
			UG/L										
	7440-61-1	Uranium	MG/KG	1.1		0.02	0.1	0	1.4		0.02	0.11	0
			UG/L										

			Lab Sample	F7H290235013					F7H290235014				
			Field Sample	BGS-A2-50S					BGS-A2-50D				
			Collect Date	8/14/2007 12:30:00 PM					8/14/2007 12:30:00 PM				
			Type	N					N				
			Parent										
Method	**CAS Number**	**Chemical Name**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
SW6020	7440-29-1	Thorium	MG/KG	8.2		0.0417	0.21	0	6.4		0.0417	0.21	0
			UG/L										
	7440-61-1	Uranium	MG/KG	1.5		0.02	0.1	0	1.5		0.02	0.1	0
			UG/L										

			Lab Sample	F7H290235015					F7H290235016				
			Field Sample	BGS-A2-48S					BGS-A2-48D				
			Collect Date	8/14/2007 2:00:00 PM					8/14/2007 2:00:00 PM				
			Type	N					N				
			Parent										
Method	**CAS Number**	**Chemical Name**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
SW6020	7440-29-1	Thorium	MG/KG	8.1		0.0417	0.2	0	5.4		0.0417	0.21	0
			UG/L										
	7440-61-1	Uranium	MG/KG	1.7		0.02	0.1	0	1.4		0.02	0.1	0
			UG/L										

			Lab Sample	F7H290235017					F7H290235018				
			Field Sample	BGS-A2-51S					BGS-A2-51D-1				
			Collect Date	8/14/2007 3:00:00 PM					8/14/2007 3:00:00 PM				
			Type	N					N				
			Parent										
Method	**CAS Number**	**Chemical Name**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
SW6020	7440-29-1	Thorium	MG/KG	7.4		0.0417	0.2	0	4.3	J / 8	0.0417	0.2	0
			UG/L										
	7440-61-1	Uranium	MG/KG	1.4		0.02	0.1	0	0.76	J / 8	0.02	0.1	0
			UG/L										

			Lab Sample	F7H290235019					F7H290235020				
			Field Sample	BGS-A2-51D-2					BGS-A2-51E				
			Collect Date	8/14/2007 3:00:00 PM					8/14/2007 3:00:00 PM				
			Type	FD					EB				
			Parent	BGS-A2-51D-1									
Method	**CAS Number**	**Chemical Name**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
SW6020	7440-29-1	Thorium	MG/KG	17.1	J / 8	0.0417	0.2	0					
			UG/L						2.5		0.3008	2	0
	7440-61-1	Uranium	MG/KG	2	J / 8	0.02	0.1	0					
			UG/L						1	U	0.2096	1	0

8.0 SUPPORTING DOCUMENTATION

Inorganic Analyses Support Documentation

Environmental Standards Project Name: Arco - Yerington
Sample Collection Dates: 8/15/07
Job Number: 20074048
Project Manager: Dina
Laboratory: Test America

Reviewed By: THW
Approved By: KW
Completion Date: 10/30/07

Applicable Sample No's.: ☑ Refer to Table 1 in the Quality Assurance Review

Sample No.	Lab. Control No.
F7H290227	

Deliverables: CLP ☑ Tier I ☑ Tier II ☐ Limited ☐ Other

The following table indicates criteria which were examined, the identified problems, and support documentation attachments.

	Criteria Examined in Detail (Check (✓) If Yes or Footnote Letter for Comments Below)					Problems Identified (Check (✓) If Yes or Footnote Number for Comments Below)					Support Documentation Attachments (Check (✓) If Yes — or Identify Attachment No.)				
	ICP or A.A Metals	Furnace Metals	Cold Vapor Mercury	Cyanide	Other Method(s)	ICP or A.A Metals	Furnace Metals	Cold Vapor Mercury	Cyanide	Other Method(s)	ICP or A.A Metals	Furnace Metals	Cold Vapor Mercury	Cyanide	Other Method(s)
Holding Times	✓										✓				
Blank Analysis Results	✓										✓				
Matrix Spike (Predigestion) Results	✓										✓				
Duplicate Analysis Results ☐ Field ☐ Lab															
Quantitation of Results	✓										✓				
Detection Limits / Sensitivity	✓										✓				
Initial Calibrations	✓										✓				
Continuing Calibrations	✓										✓				
Laboratory Control Standards (LCS)	✓										✓				
ICP Linear Range Analysis	✓										✓				
ICP Interference Checks	✓										✓				
ICP Serial Dilutions	✓										✓				
ICP Post-Digestion Spike															
GFAA Post-Digestion Spikes															
GFAA Duplicate Injections															
ICP Multiple Exposures															
GFAA Standard Additions															
CRDL Standards	✓										✓				
Others: condition on receipt	✓										✓				

Comments:

BLANK ANALYSIS RESULTS FOR INORGANIC PARAMETERS

MATRIX (Aq., S)	BLANK TYPE (✓) METHOD IOB	CCB	PREP.	TRIP	EQUIPMENT	FIELD	BLANK SAMPLE NUMBER	CONTAMINANT	CONCENTRATION (units) ~~mg~~/L	QUALIFICATION LIMIT FOR AQUEOUS SAMPLES (ug/L) 5x	QUALIFICATION LIMIT FOR SOLID SAMPLES (mg/Kg) 5x
Aq	✓						9/19 ICB	thorium	0.3		0.3
		✓					9/19 CCB 2		0.4		0.4 ✓
S			✓				7254072-MB		0.074 mg/Kg		0.37
								no impact			

Aq. = Aqueous; S = Solid

Notes:

SAMPLE SUMMARY

F7H290227

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
J5VA9	001	BGS-A1-14S	08/15/07	07:30
J5VCC	002	BGS-A1-14D	08/15/07	07:30
J5VCE	003	BGS-A1-05S	08/15/07	08:30
J5VCG	004	BGS-A1-05D	08/15/07	08:30
J5VCR	005	BGS-A1-02S	08/15/07	09:45
J5VCT	006	BGS-A1-02D	08/15/07	09:45
J5VCX	007	BGS-A1-06S	08/15/07	10:45
J5VC0	008	BGS-A1-06D	08/15/07	10:45
J5VC1	009	BGS-A2-53S	08/15/07	12:30
J5VC3	010	BGS-A2-53D	08/15/07	12:30
J5VC6	011	BGS-A2-54S	08/15/07	13:15
J5VC7	012	BGS-A2-54D	08/15/07	13:15
J5VC8	013	BGS-A2-55S	08/15/07	13:45
J5VDA	014	BGS-A2-55D	08/15/07	13:45
J5VDC	015	BGS-A2-65S	08/15/07	14:45
J5VDD	016	BGS-A2-65D	08/15/07	14:45
J5VDF	017	BGS-A2-66S	08/16/07	07:15
J5VDH	018	BGS-A2-66D-1	08/16/07	07:15
J5VDK	019	BGS-A2-66D-2	08/16/07	07:15

Level II

Level II

FD

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.

Konstadina Vlahogiani

From: Bassett, Penny [PBassett@brwncald.com]
Sent: Friday, October 12, 2007 12:18 PM
To: Konstadina Vlahogiani
Cc: Tom Weinmann
Subject: RE: Yerington

Dina & Tom –

My apologies for not getting back to you on this sooner. Here's a listing of the QC samples submitted for the background soil sampling event.

QC Sample ID	Associated with:	Type of QC sample
BGS-A1-01S-2	BGS-A1-01S-1	duplicate
BGS-A1-11D-2	BGS-A1-11D-1	duplicate
BGS-A1-21S-2	BGS-A1-21S-1	duplicate
BGS-A1-31D-2	BGS-A1-31D-1	duplicate
BGS-A1-41S-2	BGS-A1-41S-1	duplicate
BGS-A1-51D-2	BGS-A1-51D-1	duplicate
BGS-A1-61S-2	BGS-A1-61S-1	duplicate
BGS-A1-71D-2	BGS-A1-71D-1	duplicate
BGS-A2-74E + 66S/D →	67S&D, 68S&D, 69S&D, 71S&D, 70S&D, 72S&D, 73S&D, 74S&D (all samples collected 8/16)	Equipment blank, poured lab grade pure water over rock pick used to chisel soil from excavation wall.
BGS-A2-51E	59S&D, 58S&D, 57S&D, 60S&S, 56S&D, 49S&D, 50S&D, 48S&D, 51S&D (all samples collected 8/14)	Equipment blank, poured lab grade pure water over rock pick used to chisel soil from excavation wall.
BGS-A2-67F	~~BGS-A2-67S&D~~	Field blank

all samples collected on 8/16/07

Penny

From: Konstadina Vlahogiani [mailto:dvlahogi@envstd.com]
Sent: Friday, October 05, 2007 10:37 AM
To: Bassett, Penny
Cc: Tom Weinmann
Subject: FW: Yerington

Penny,

Could you please check the question below and let us know?

Thanks,

Dina

From: Tom Weinmann
Sent: Thursday, October 04, 2007 10:29 AM
To: Konstadina Vlahogiani
Subject: Yerington

Are there any specific EB/FB associations for the samples I'm looking at? I have SDG IQH1759 and there is one field blank (BGS-A2-67F) and two equipment blanks (BGS-A2-51E and BGS-A2-74E).

Tom Weinmann
Senior Quality Assurance Chemist I
Environmental Standards, Inc.
(610) 935-5577
tweinmann@envstd.com

TestAmerica Irvine

Client Sample ID: BGS-A1-14S

TOTAL Metals

Lot-Sample #...: F7H290227-001 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 07:30 **Date Received..:** 08/28/07
% Moisture.....: 3.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**7.3**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VA91AC**
		Dilution Factor: 1		Analysis Time..: 19:18		
Uranium	**0.95**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VA91AD**
		Dilution Factor: 1		Analysis Time..: 19:18		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-14S

General Chemistry

Lot-Sample #...: F7H290227-001 **Work Order #...:** J5VA9 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 07:30 **Date Received..:** 08/28/07
% Moisture.....: 3.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**3.8**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242130**

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

TestAmerica Irvine

Client Sample ID: BGS-A1-14D

TOTAL Metals

Lot-Sample #...: F7H290227-002 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 07:30 **Date Received..:** 08/28/07
% Moisture.....: 6.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**11.9**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCC1AC**
		Dilution Factor: 1		Analysis Time..: 19:32		
Uranium	**2.6**	**0.11**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCC1AD**
		Dilution Factor: 1		Analysis Time..: 19:32		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-14D

General Chemistry

Lot-Sample #...: F7H290227-002 **Work Order #...:** J5VCC **Matrix.....:** SOLID
Date Sampled...: 08/15/07 07:30 **Date Received..:** 08/28/07
% Moisture.....: 6.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**6.2**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242130**

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

TestAmerica Irvine

Client Sample ID: BGS-A1-05S

TOTAL Metals

Lot-Sample #...: F7H290227-003 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 08:30 **Date Received..:** 08/28/07
% Moisture.....: 2.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**5.5**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCE1AC**
		Dilution Factor: 1		Analysis Time..: 19:36		
Uranium	**0.93**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCE1AD**
		Dilution Factor: 1		Analysis Time..: 19:36		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-05S

General Chemistry

Lot-Sample #...: F7H290227-003 **Work Order #...:** J5VCE **Matrix.....:** SOLID
Date Sampled...: 08/15/07 08:30 **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**	**7242130**

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

TestAmerica Irvine

Client Sample ID: BGS-A1-05D

TOTAL Metals

Lot-Sample #...: F7H290227-004 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 08:30 **Date Received..:** 08/28/07
% Moisture.....: 2.9

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**8.9**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCG1AC**
		Dilution Factor: 1		Analysis Time..: 19:48		
Uranium	**0.98**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCG1AD**
		Dilution Factor: 1		Analysis Time..: 19:48		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-05D

General Chemistry

Lot-Sample #...: F7H290227-004 **Work Order #...:** J5VCG **Matrix.....:** SOLID
Date Sampled...: 08/15/07 08:30 **Date Received..:** 08/28/07
% Moisture.....: 2.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.9**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242130**

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

TestAmerica Irvine

Client Sample ID: BGS-A1-02S

TOTAL Metals

Lot-Sample #...: F7H290227-005 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 09:45 **Date Received..:** 08/28/07
% Moisture.....: 2.9

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**6.9**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCR1AC**
		Dilution Factor: 1		Analysis Time..: 19:52		
Uranium	**0.95**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCR1AD**
		Dilution Factor: 1		Analysis Time..: 19:52		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-02S

General Chemistry

Lot-Sample #...: F7H290227-005 **Work Order #...:** J5VCR **Matrix.....:** SOLID
Date Sampled...: 08/15/07 09:45 **Date Received..:** 08/28/07
% Moisture.....: 2.9

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**2.9**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242130**

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

TestAmerica Irvine

Client Sample ID: BGS-A1-02D

TOTAL Metals

Lot-Sample #...: F7H290227-006 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 09:45 **Date Received..:** 08/28/07
% Moisture.....: 3.0

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**9.0**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCT1AC**
		Dilution Factor: 1		Analysis Time..: 19:55		
Uranium	**1.4**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCT1AD**
		Dilution Factor: 1		Analysis Time..: 19:55		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-02D

General Chemistry

Lot-Sample #...: F7H290227-006 **Work Order #...:** J5VCT **Matrix.....:** SOLID
Date Sampled...: 08/15/07 09:45 **Date Received..:** 08/28/07
% Moisture.....: 3.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**3.0**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242130**

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

TestAmerica Irvine

Client Sample ID: BGS-A1-06S

TOTAL Metals

Lot-Sample #...: F7H290227-007 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 10:45 **Date Received..:** 08/28/07
% Moisture.....: 2.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**4.1**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCX1AC**
		Dilution Factor: 1		Analysis Time..: 19:59		
Uranium	**0.57**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCX1AD**
		Dilution Factor: 1		Analysis Time..: 19:59		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-06S

General Chemistry

Lot-Sample #...: F7H290227-007 **Work Order #...:** J5VCX **Matrix.....:** SOLID
Date Sampled...: 08/15/07 10:45 **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**	**7242130**

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

TestAmerica Irvine

Client Sample ID: BGS-A1-06D

TOTAL Metals

Lot-Sample #...: F7H290227-008 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 10:45 **Date Received..:** 08/28/07
% Moisture.....: 3.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**7.5**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VC01AC**
		Dilution Factor: 1		Analysis Time..: 20:03		
Uranium	**1.1**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VC01AD**
		Dilution Factor: 1		Analysis Time..: 20:03		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-06D

General Chemistry

Lot-Sample #...: F7H290227-008 **Work Order #...:** J5VC0 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 10:45 **Date Received..:** 08/28/07
% Moisture.....: 3.8

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**3.8**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242130**

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

TestAmerica Irvine

Client Sample ID: BGS-A2-53S

TOTAL Metals

Lot-Sample #...: F7H290227-009 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 12:30 **Date Received..:** 08/28/07
% Moisture.....: 2.7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**9.6**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VC11AC**
		Dilution Factor: 1		Analysis Time..: 20:07		
Uranium	**1.7**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VC11AD**
		Dilution Factor: 1		Analysis Time..: 20:07		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-53S

General Chemistry

Lot-Sample #...: F7H290227-009 **Work Order #...:** J5VC1 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 12:30 **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**	**7242130**

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

TestAmerica Irvine

Client Sample ID: BGS-A2-53D

TOTAL Metals

Lot-Sample #...: F7H290227-010 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 12:30 **Date Received..:** 08/28/07
% Moisture.....: 4.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**8.1**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VC31AC**
		Dilution Factor: 1		Analysis Time..: 20:10		
Uranium	**2.0**	**0.11**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VC31AD**
		Dilution Factor: 1		Analysis Time..: 20:10		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-53D

General Chemistry

Lot-Sample #...: F7H290227-010 **Work Order #...:** J5VC3 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 12:30 **Date Received..:** 08/28/07
% Moisture.....: 4.3

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Moisture	**4.3**	**0.10**	**%**	**MCAWW 160.3 MOD**	**08/30-08/31/07**	**7242130**

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

STL-ST. LOUIS

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP **Acceptable Range:** 90% - 110%

Standard Source: Inorganic Ventures **Standard ID:** See Standards Log

Element	WL/ Mass	True Conc	ICV 9/19/2007 4:17 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Thorium	232	200.0	207.65	103.8								
Uranium	238	200.0	216.30	108.2								

Version 4.75.1

Form 2A Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP **Acceptable Range:** 90% - 110%

Standard Source: Inorganic Ventures **Standard ID:** See Standards Log

Element	WL/ Mass	True Conc	CCV 9/19/2007 4:40 PM		CCV 9/19/2007 5:25 PM		CCV 9/19/2007 6:10 PM		CCV 9/19/2007 6:55 PM		CCV 9/19/2007 7:40 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Thorium	232	200.0	204.30	102.2	206.67	103.3	195.35	97.7	202.28	101.1	197.95	99.0
Uranium	238	200.0	212.26	106.1	210.54	105.3	203.85	101.9	211.16	105.6	205.43	102.7

Version 4.75.1

Form 2A Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP **Acceptable Range:** 90% - 110%

Standard Source: Inorganic Ventures **Standard ID:** See Standards Log

Element	WL/ Mass	True Conc	CCV 9/19/2007 8:25 PM Found	% Rec	CCV 9/19/2007 8:55 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Thorium	232	200.0	201.23	100.6	197.24	98.6						
Uranium	238	200.0	207.08	103.5	204.47	102.2						

Version 4.75.1

Form 2A Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP **Acceptable Range:** 50% - 150%

Standard Source: Inorganic Ventures **Standard ID:** See Standards Log

Element	WL/ Mass	True Conc	CRI 9/19/2007 4:25 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Thorium	232	20.0	20.97	104.9								
Uranium	238	20.0	21.82	109.1								

Version 4.75.1

Form 2B Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB 9/19/2007 4:21 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Thorium	232	1	0.3	B								
Uranium	238	0.5	0.1	U								

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL

Form 3 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB 9/19/2007 4:44 PM Found	Q	CCB 9/19/2007 5:29 PM Found	Q	CCB 9/19/2007 6:14 PM Found	Q	CCB 9/19/2007 6:59 PM Found	Q	CCB 9/19/2007 7:44 PM Found	Q
Thorium	232	1	0.2	B	0.4	B	0.2	U	0.2	U	0.2	B
Uranium	238	0.5	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL

Form 3 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB 9/19/2007 8:29 PM		CCB 9/19/2007 8:59 PM							
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Thorium	232	1	0.2	U	0.3	B						
Uranium	238	0.5	0.1	U	0.1	U						

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL

Form 3 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: J6HVLB

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/11/2007 **Prep Batch:** 7254072

Weight: 0.5 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Thorium	**232**	**0.042**	**0.20**	**0.074**	**B**	**1**	**ICPMS**	**9/19/2007**	**19:11**
Uranium	238	0.020	0.10	0.020	U	1	ICPMS	9/19/2007	19:11

Comments: Lot #: F7H290227

Version 4.75.1

U Result is less than the IDL

B Result is between MDL and RL

Form 3 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP **Acceptable Range:** 80% - 120%

Standard Source: Inorganic Ventures **Standard ID:** See Standards Log

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 9/19/2007 4:29 PM Found	Found	Found	Found	Found
Thorium	232	1		0				
Uranium	238	0.5		0				

Version 4.75.1

U Result is less than the IDL

B Result is between MDL and RL

Form 4 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP **Acceptable Range:** 80% - 120%

Standard Source: Inorganic Ventures **Standard ID:** See Standards Log

Element	WL/ Mass	True Conc	ICSAB 9/19/2007 4:34 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Thorium	232	100	106.7	106.7								
Uranium	238	100	114.8	114.8								

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL
N Spike recovery failed

Form 4 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: J5VA9S

Original Sample ID: J5VA9 **Client ID:** BGS-A1-14S S

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/11/2007 **Prep Batch:** 7254072

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 3.8

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Thorium	232	7.3		116		103.95	104.3	1	1	ICPMS	9/19/2007	19:18	9/19/2007	19:25
Uranium	238	0.95		115		103.95	109.2	1	1	ICPMS	9/19/2007	19:18	9/19/2007	19:25

75-125

Comments: Lot #: F7H290227 Sample #: 1

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: J5VA9D

Original Sample ID: J5VA9 **Client ID:** BGS-A1-14S D

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/11/2007 **Prep Batch:** 7254072

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 3.8

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Thorium	232	7.3		119		103.95	107.1	1	1	ICPMS	9/19/2007	19:18	9/19/2007	19:29
Uranium	238	0.95		117		103.95	111.7	1	1	ICPMS	9/19/2007	19:18	9/19/2007	19:29

75-125

Comments: Lot #: F7H290227 Sample #: 1

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: J5VA9D

Matrix Spike Sample ID: J5VA9S **Client ID:** BGS-A1-14S D

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/11/2007 **Prep Batch:** 7254072

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 3.8

Element	WL/ Mass	MS Conc	Q	MSD Conc	Q	% RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Thorium	232	116		119		2.5	1	1	ICPMS	9/19/2007	19:25	9/19/2007	19:29
Uranium	238	115		117		2.3	1	1	ICPMS	9/19/2007	19:25	9/19/2007	19:29

435

Comments: Lot #: F7H290227 Sample #: 1

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 6 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: J6HVLC

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/11/2007 **Prep Batch:** 7254072

Weight: 0.5 **Volume:** 250 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Thorium	232	250	236	94.4		80-120	1	ICPMS	9/19/2007	19:14
Uranium	238	250	249	99.6		80-120	1	ICPMS	9/19/2007	19:14

75-125

Comments: Lot #: F7H290227

Version 4.75.1

U Result is less than the IDL

B Result is between MDL and RL

Form 7 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: J5VA9V

Original Sample ID: J5VA9 **Client ID:** BGS-A1-14S

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/11/2007 **Prep Batch:** 7254072

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 3.8

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Thorium	232	7.3		6.9		4.8	1	5	ICPMS	9/19/2007	19:18	9/19/2007	19:21
Uranium	238	0.95		0.98			1	5	ICPMS	9/19/2007	19:18	9/19/2007	19:21

410

Comments: 10X

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL
E Serial dilution percent difference not within limits

Form 9 Equivalent

Form 9

STL St. Louis

Serial Dilution RPD Report

Serial Dilution Sample ID:	J5VA9V		
Original Sample ID	J5VA9		
Matrix	Soil	**Client ID**	BGS-A1-14S
Weight	0.5	**Prep Date**	9/11/2007
Units	mg/kg	**Prep Batch**	**7254072**
Volume	100		

Element	Initial Sample	Q	Serial Dilution	Q	% Difference	Q
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium						
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Lithium						
Magnesium						
Manganese						
Molybdenum						
Nickel						
Potassium						
Selenium						
Silver						
Sodium						
Strontium						
Thallium						
Uranium	0.95		0.98		3.2	
Vanadium						
Zinc						

U Result is less than the MDL
B Result is between the MDL and RL
E Serial Dilution Percent Difference not within limits

STL-ST. LOUIS

Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPMS **Units:** ug/L

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Thorium	232.00	1	0.21	12/23/2005
Uranium	238.00	0.5	0.10	1/6/2006

STL-ST. LOUIS

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPMS **Units:** ug/L

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Thorium	232.00	20000	1/16/2006
Uranium	238.00	20000	1/16/2006

STL-ST. LOUIS

Metals Data Reporting Form

Preparation Log

Preparation Batch: 7254072 **Instrument:** ICP **Matrix:** Soil

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
J6HVLB	9/11/2007	0.5	100	NA
J6HVLC	9/11/2007	0.5	250	NA
J5VA9	9/11/2007	0.5	100	3.8
J5VA9D	9/11/2007	0.5	100	3.8
J5VA9S	9/11/2007	0.5	100	3.8
J5VC0	9/11/2007	0.5	100	3.85
J5VC1	9/11/2007	0.5	100	2.71
J5VC3	9/11/2007	0.5	100	4.33
J5VC6	9/11/2007	0.5	100	1.07
J5VC7	9/11/2007	0.5	100	1.87
J5VC8	9/11/2007	0.5	100	3.31
J5VCC	9/11/2007	0.5	100	6.15
J5VCE	9/11/2007	0.5	100	2.39
J5VCG	9/11/2007	0.5	100	2.87
J5VCR	9/11/2007	0.5	100	2.87
J5VCT	9/11/2007	0.5	100	3
J5VCX	9/11/2007	0.5	100	2.43
J5VDA	9/11/2007	0.5	100	4.68
J5VDC	9/11/2007	0.5	100	8.93
J5VDD	9/11/2007	0.5	100	1.82
J5VDF	9/11/2007	0.5	100	9.09
J5VDH	9/11/2007	0.5	100	1.86
J5VDK	9/11/2007	0.5	100	1.54

STL-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPMS **Chart Number:** 091907M2.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
CALBLK		9/19/2007	15:55
CAL1		9/19/2007	15:58
CAL2		9/19/2007	16:01
CAL3		9/19/2007	16:04
CAL4		9/19/2007	16:08
CAL5		9/19/2007	16:11
ICV		9/19/2007	16:17
ICB		9/19/2007	16:21
CRI		9/19/2007	16:25
ICSA		9/19/2007	16:29
ICSAB		9/19/2007	16:34
CCV		9/19/2007	16:40
CCB		9/19/2007	16:44
ZZZZZZ		9/19/2007	16:48
ZZZZZZ		9/19/2007	16:52
ZZZZZZ		9/19/2007	16:55
ZZZZZZ		9/19/2007	16:59
ZZZZZZ		9/19/2007	17:03
ZZZZZZ		9/19/2007	17:06
ZZZZZZ		9/19/2007	17:10
ZZZZZZ		9/19/2007	17:14
ZZZZZZ		9/19/2007	17:17
ZZZZZZ		9/19/2007	17:21
CCV		9/19/2007	17:25
CCB		9/19/2007	17:29
ZZZZZZ		9/19/2007	17:33
ZZZZZZ		9/19/2007	17:37
ZZZZZZ		9/19/2007	17:40
ZZZZZZ		9/19/2007	17:44
ZZZZZZ		9/19/2007	17:48
ZZZZZZ		9/19/2007	17:52
ZZZZZZ		9/19/2007	17:55
ZZZZZZ		9/19/2007	17:59
ZZZZZZ		9/19/2007	18:03
ZZZZZZ		9/19/2007	18:06
CCV		9/19/2007	18:10
CCB		9/19/2007	18:14
ZZZZZZ		9/19/2007	18:18
ZZZZZZ		9/19/2007	18:22

STL-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPMS **Chart Number:** 091907M2.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		9/19/2007	18:25
ZZZZZZ		9/19/2007	18:29
ZZZZZZ		9/19/2007	18:33
ZZZZZZ		9/19/2007	18:36
ZZZZZZ		9/19/2007	18:40
ZZZZZZ		9/19/2007	18:44
ZZZZZZ		9/19/2007	18:48
ZZZZZZ		9/19/2007	18:51
CCV		9/19/2007	18:55
CCB		9/19/2007	18:59
ZZZZZZ		9/19/2007	19:03
ZZZZZZ		9/19/2007	19:07
J6HVLB		9/19/2007	19:11
J6HVLC		9/19/2007	19:14
J5VA9	BGS-A1-14S	9/19/2007	19:18
J5VA9V	BGS-A1-14S	9/19/2007	19:21
J5VA9S	BGS-A1-14S S	9/19/2007	19:25
J5VA9D	BGS-A1-14S D	9/19/2007	19:29
J5VCC	BGS-A1-14D	9/19/2007	19:32
J5VCE	BGS-A1-05S	9/19/2007	19:36
CCV		9/19/2007	19:40
CCB		9/19/2007	19:44
J5VCG	BGS-A1-05D	9/19/2007	19:48
J5VCR	BGS-A1-02S	9/19/2007	19:52
J5VCT	BGS-A1-02D	9/19/2007	19:55
J5VCX	BGS-A1-06S	9/19/2007	19:59
J5VC0	BGS-A1-06D	9/19/2007	20:03
J5VC1	BGS-A2-53S	9/19/2007	20:07
J5VC3	BGS-A2-53D	9/19/2007	20:10
J5VC6	BGS-A2-54S	9/19/2007	20:14
J5VC7	BGS-A2-54D	9/19/2007	20:18
J5VC8	BGS-A2-55S	9/19/2007	20:21
CCV		9/19/2007	20:25
CCB		9/19/2007	20:29
J5VDA	BGS-A2-55D	9/19/2007	20:33
J5VDC	BGS-A2-65S	9/19/2007	20:37
J5VDD	BGS-A2-65D	9/19/2007	20:40
J5VDF	BGS-A2-66S	9/19/2007	20:44
J5VDH	BGS-A2-66D-1	9/19/2007	20:48

STL-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPMS **Chart Number:** 091907M2.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
J5VDK	BGS-A2-66D-2	9/19/2007	20:51
CCV		9/19/2007	20:55
CCB		9/19/2007	20:59
ZZZZZZ		9/19/2007	21:03
ZZZZZZ		9/19/2007	21:06
ZZZZZZ		9/19/2007	21:09
ZZZZZZ		9/19/2007	21:13
ZZZZZZ		9/19/2007	21:16
ZZZZZZ		9/19/2007	21:19
ZZZZZZ		9/19/2007	21:25
ZZZZZZ		9/19/2007	21:29
ZZZZZZ		9/19/2007	21:35
ZZZZZZ		9/19/2007	21:40
ZZZZZZ		9/19/2007	21:44
ZZZZZZ		9/19/2007	21:47
ZZZZZZ		9/19/2007	21:51
ZZZZZZ		9/19/2007	21:55
ZZZZZZ		9/19/2007	22:00
ZZZZZZ		9/19/2007	22:03
ZZZZZZ		9/19/2007	22:07
ZZZZZZ		9/19/2007	22:11
ZZZZZZ		9/19/2007	22:14
ZZZZZZ		9/19/2007	22:18
ZZZZZZ		9/19/2007	22:21
ZZZZZZ		9/19/2007	22:25
ZZZZZZ		9/19/2007	22:29
ZZZZZZ		9/19/2007	22:32
ZZZZZZ		9/19/2007	22:36
ZZZZZZ		9/19/2007	22:40
ZZZZZZ		9/19/2007	22:48
ZZZZZZ		9/19/2007	22:51
ZZZZZZ		9/19/2007	22:55
ZZZZZZ		9/19/2007	22:58
ZZZZZZ		9/19/2007	23:02
ZZZZZZ		9/19/2007	23:06
ZZZZZZ		9/19/2007	23:09
ZZZZZZ		9/19/2007	23:13
ZZZZZZ		9/19/2007	23:17
ZZZZZZ		9/19/2007	23:21

% solids

STL St. Louis Laboratory
Percent Total Solid/Percent Moisture Logsheet

Analysis: %Moisture Time In: 12:39 Temp: 105.0 Batch: 7242130

Prep Date: 08/30/07 Time Out:* 5:00 Temp: 104.0 Analyst: SDB

Anal Date: 08/31/07 * if less than 12 hours, complete page 2 of this spreadsheet Reviewed By: CH

Balance 1 SN: E49883

SOP	Rev.	Date
STL-WC-0005	6	6/15/2007

Pan Number	Sample Id	Pan wt	Wet Sam + Pan g	Dry Sam + Pan wt	Results % Solids	Results % Moisture	Comments
1	J5VA9-001	1.2540	8.3715	8.1007	96.20	3.80	
2	J5VCC-001	1.2605	8.9027	8.4328	93.85	6.15	
3	J5VCE-001	1.2589	9.3300	9.1371	97.61	2.39	
4	J5VCG-001	1.2620	10.2014	9.9452	97.13	2.87	
5	J5VCR-001	1.2649	9.1564	8.9299	97.13	2.87	
6	J5VCT-001	1.2841	14.6398	14.2397	97.00	3.00	
7	J5VCX-001	1.2558	10.4539	10.2302	97.57	2.43	
8	J5VC0-001	1.2679	9.5374	9.2188	96.15	3.85	
9	J5VC1-001	1.2530	14.2616	13.9094	97.29	2.71	
10	J5VC3-001	1.2670	11.2606	10.8277	95.67	4.33	
11	J5VC6-001	1.2849	11.3440	11.2359	98.93	1.07	
12	J5VC7-001	1.2733	18.6435	18.3184	98.13	1.87	
13	J5VC8-001	1.2533	10.3060	10.0066	96.69	3.31	
14	J5VDA-001	1.2763	11.7436	11.2533	95.32	4.68	
15	J5VDC-001	1.2585	11.7389	10.8027	91.07	8.93	
16	J5VDD-001	1.2697	11.2978	11.1157	98.18	1.82	
17	J5VDF-001	1.2809	9.5736	8.8194	90.91	9.09	
18	J5VDH-001	1.2654	16.7907	16.5022	98.14	1.86	
19	J5VDK-001	1.2611	11.4488	11.2915	98.46	1.54	
20	J5VDKX	1.2745	13.0287	12.7459	97.59	2.41	
21							
22							
23							
24							
25							
26							
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33							
34							
35							
36							
37							

Case Narrative
LOT NUMBER: **F7H290227**

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.

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

PROJECT NUMBER: 132059

LABORATORY NAME & ADDRESS: Test America - St. Louis

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	PH FIELD
01	BGS-A1-14S	8/15/07	07:30	PB	1	9oz Plastic	NONE	S	U, Th (6020)					----	
02	BGS-A1-14D		↓											----	
03	BGS-A1-05S		08:30											----	
04	BGS-A1-05D		↓											----	
05	BGS-A1-02S		09:45											----	
06	BGS-A1-02D		↓								M			----	
07	BGS-A1-06S		10:45											----	
08	BGS-A1-06D		↓											----	
09	BGS-A2-53S		12:30											----	
10	BGS-A2-53D		↓	↓	↓	↓	↓	↓	↓					----	

COLLECTED & RELEASED BY: Penny Bassett	DATE 8/17/07	TIME 14:00	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY: [signature]	DATE 8/18/07	TIME 09:05	RELINQUISHED BY:	DATE / /	TIME :	
						001KF-0109
RECORD RETURNED BY:	DATE / /	TIME :				
COURIER:			SHIPPING NUMBER:			

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.

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
PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: Test America - St. Louis

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 - SEQ	TAT	SAMPLING METHOD	DEPTH (FT.) BEGIN END	TO BEGIN NUM
01	BGS-A2-54S	8/15/07	13:15	PB	1	9oz plastic	NONE	S	U, Th (6020)					----	
02	BGS-A2-54D	↓	↓	↓	↓	↓	↓	↓	↓					----	
03	BGS-A2-55S		13:45											----	
04	BGS-A2-55D		↓											----	
05	BGS-A2-65S		14:45											----	
06	BGS-A2-65D	↓	↓											----	
07	BGS-A2-66S	8/16/07	07:15											----	
08	BGS-A2-66D-1													----	
09	BGS-A2-66D-2	↓	↓	↓	↓	↓	↓	↓	↓					----	
10														----	

COLLECTED & RELEASED BY: Penny Barrett	DATE 8/24/07	TIME 1400	COOLER I.D.:		COMMENTS (see note on back):
RECEIVED BY: [illegible]	DATE 8/24/07	TIME 0900	RELINQUISHED BY:	DATE / /	TIME :
					00KF-0109
RECORD RETURNED BY:	DATE / /	TIME :			
COURIER:			SHIPPING NUMBER:		

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, 249
200- 235-
206- 249-
224- 245

Condition Upon Receipt Form

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

Shipping Information

Shipper Name: FE Multiple Packages (Y) N

Shipping # (s):*
1. 7413- 7409-1524
2. 1546
3. 1557
4.
5.
6.
7.
8.
9.
10.

Sample Temperature (s):**
1. Ambient
2. 1
3.
4.
5.
6.
7.
8.
9.
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.

Inorganic Analyses Support Documentation

Environmental Standards Project Name: Arco - Yerington
Sample Collection Dates: 8/14/07
Job Number: 20074048
Project Manager: Dina
Laboratory: Test America

Reviewed By: THW
Approved By: WW
Completion Date: 10/30/07

Applicable Sample No's.: ☑ Refer to Table 1 in the Quality Assurance Review

Sample No.	Lab. Control No.
F7H290235	

Deliverables: CLP ☑ Tier I ☑ Tier II ☐ Limited ☐ Other

The following table indicates criteria which were examined, the identified problems, and support documentation attachments.

	Criteria Examined in Detail (Check (✓) If Yes or Footnote Letter for Comments Below)					Problems Identified (Check (✓) If Yes or Footnote Number for Comments Below)					Support Documentation Attachments (Check (✓) If Yes — or Identify Attachment No.)				
	ICP or A.A Metals	Furnace Metals	Cold Vapor Mercury	Cyanide	Other Method(s)	ICP or A.A Metals	Furnace Metals	Cold Vapor Mercury	Cyanide	Other Method(s)	ICP or A.A Metals	Furnace Metals	Cold Vapor Mercury	Cyanide	Other Method(s)
Holding Times	✓										✓				
Blank Analysis Results	✓										✓				
Matrix Spike (Predigestion) Results	✓										✓				
Duplicate Analysis Results ☒ Field ☐ Lab	✓					✓					✓				
Quantitation of Results	✓										✓				
Detection Limits / Sensitivity	✓										✓				
Initial Calibrations	✓										✓				
Continuing Calibrations	✓										✓				
Laboratory Control Standards (LCS)	✓										✓				
ICP Linear Range Analysis	✓										✓				
ICP Interference Checks	✓										✓				
ICP Serial Dilutions	✓										✓				
ICP Post-Digestion Spike															
GFAA Post-Digestion Spikes															
GFAA Duplicate Injections															
ICP Multiple Exposures															
GFAA Standard Additions															
CRDL Standards	✓										✓				
Others: condition on receipt	✓										✓				

Comments:

BLANK ANALYSIS RESULTS FOR INORGANIC PARAMETERS

MATRIX (Aq., S)	BLANK TYPE (✓) METHOD IOB	METHOD CCB	METHOD PREP.	TRIP	EQUIPMENT	FIELD	BLANK SAMPLE NUMBER	CONTAMINANT	CONCENTRATION (units) µg/L	QUALIFICATION LIMIT FOR AQUEOUS SAMPLES (ug/L) 5x	QUALIFICATION LIMIT FOR SOLID SAMPLES (mg/Kg) 5x
Aq	✓						9/19 ICB	thorium	0.3		0.3
		✓					9/19 CCB 2		0.4		0.4
S			✓				7254073-MB		0.088 mg/Kg		0.44
Aq					✓		BGS-A2-51E		2.5		2.5

no impact

Aq. = Aqueous; S = Solid

Notes:

SAMPLE SUMMARY

F7H290235

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
J5VEP	001	BGS-A2-59S	08/14/07	08:00
J5VEQ	002	BGS-A2-59D Level II	08/14/07	08:00
J5VET	003	BGS-A2-58S	08/14/07	08:30
J5VEW	004	BGS-A2-58D	08/14/07	08:30
J5VEX	005	BGS-A2-57S	08/14/07	09:15
J5VE1	006	BGS-A2-57D	08/14/07	09:15
J5VE2	007	BGS-A2-60S	08/14/07	10:15
J5VE3	008	BGS-A2-60D	08/14/07	10:15
J5VE5	009	BGS-A2-56S	08/14/07	10:45
J5VF0	010	BGS-A2-56D	08/14/07	10:45
J5VF3	011	BGS-A2-49S	08/14/07	11:45
J5VF4	012	BGS-A2-49D	08/14/07	11:45
J5VF7	013	BGS-A2-50S	08/14/07	12:30
J5VF9	014	BGS-A2-50D	08/14/07	12:30
J5VGC	015	BGS-A2-48S	08/14/07	14:00
J5VGD	016	BGS-A2-48D	08/14/07	14:00
J5VGE	017	BGS-A2-51S	08/14/07	15:00
J5VGG	018	BGS-A2-51D-1) FD	08/14/07	15:00
J5VGK	019	BGS-A2-51D-2) FD	08/14/07	15:00
J5VGM	020	BGS-A2-51E	08/14/07	15:00

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-A1-14S

TOTAL Metals

Lot-Sample #...: F7H290227-001 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 07:30 **Date Received..:** 08/28/07
% Moisture.....: 3.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	7.3	0.21	mg/kg	SW846 6020	09/11-09/19/07	J5VA91AC
		Dilution Factor: 1		Analysis Time..: 19:18		
Uranium	0.95	0.1	mg/kg	SW846 6020	09/11-09/19/07	J5VA91AD
		Dilution Factor: 1		Analysis Time..: 19:18		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-14D

TOTAL Metals

Lot-Sample #...: F7H290227-002 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 07:30 **Date Received..:** 08/28/07
% Moisture.....: 6.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**11.9**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCC1AC**
		Dilution Factor: 1		Analysis Time..: 19:32		
Uranium	**2.6**	**0.11**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCC1AD**
		Dilution Factor: 1		Analysis Time..: 19:32		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-05S

TOTAL Metals

Lot-Sample #...: F7H290227-003 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 08:30 **Date Received..:** 08/28/07
% Moisture.....: 2.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**5.5**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCE1AC**
		Dilution Factor: 1		Analysis Time..: 19:36		
Uranium	**0.93**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCE1AD**
		Dilution Factor: 1		Analysis Time..: 19:36		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-05D

TOTAL Metals

Lot-Sample #...: F7H290227-004 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 08:30 **Date Received..:** 08/28/07
% Moisture.....: 2.9

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**8.9**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCG1AC**
		Dilution Factor: 1		Analysis Time..: 19:48		
Uranium	**0.98**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCG1AD**
		Dilution Factor: 1		Analysis Time..: 19:48		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-02S

TOTAL Metals

Lot-Sample #...: F7H290227-005 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 09:45 **Date Received..:** 08/28/07
% Moisture.....: 2.9

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**6.9**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCR1AC**
		Dilution Factor: 1		Analysis Time..: 19:52		
Uranium	**0.95**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCR1AD**
		Dilution Factor: 1		Analysis Time..: 19:52		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-02D

TOTAL Metals

Lot-Sample #...: F7H290227-006 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 09:45 **Date Received..:** 08/28/07
% Moisture.....: 3.0

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**9.0**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCT1AC**
		Dilution Factor: 1		Analysis Time..: 19:55		
Uranium	**1.4**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCT1AD**
		Dilution Factor: 1		Analysis Time..: 19:55		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-06S

TOTAL Metals

Lot-Sample #...: F7H290227-007 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 10:45 **Date Received..:** 08/28/07
% Moisture.....: 2.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**4.1**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCX1AC**
		Dilution Factor: 1		Analysis Time..: 19:59		
Uranium	**0.57**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VCX1AD**
		Dilution Factor: 1		Analysis Time..: 19:59		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A1-06D

TOTAL Metals

Lot-Sample #...: F7H290227-008 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 10:45 **Date Received..:** 08/28/07
% Moisture.....: 3.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**7.5**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VC01AC**
		Dilution Factor: 1		Analysis Time..: 20:03		
Uranium	**1.1**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VC01AD**
		Dilution Factor: 1		Analysis Time..: 20:03		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-53S

TOTAL Metals

Lot-Sample #...: F7H290227-009 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 12:30 **Date Received..:** 08/28/07
% Moisture.....: 2.7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**9.6**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VC11AC**
		Dilution Factor: 1		Analysis Time..: 20:07		
Uranium	**1.7**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VC11AD**
		Dilution Factor: 1		Analysis Time..: 20:07		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-53D

TOTAL Metals

Lot-Sample #...: F7H290227-010 **Matrix.....:** SOLID
Date Sampled...: 08/15/07 12:30 **Date Received..:** 08/28/07
% Moisture.....: 4.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254072						
Thorium	**8.1**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VC31AC**
		Dilution Factor: 1		Analysis Time..: 20:10		
Uranium	**2.0**	**0.11**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VC31AD**
		Dilution Factor: 1		Analysis Time..: 20:10		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-59S

TOTAL Metals

Lot-Sample #...: F7H290235-001 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 08:00 **Date Received..:** 08/28/07
% Moisture.....: 0.82

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	**5.7**	**0.2**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VEP1AC**
		Dilution Factor: 1		Analysis Time..: 17:33		
Uranium	**1.0**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VEP1AD**
		Dilution Factor: 1		Analysis Time..: 17:33		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-59D

TOTAL Metals

Lot-Sample #...: F7H290235-002 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 08:00 **Date Received..:** 08/28/07
% Moisture.....: 0.70

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	**4.0**	**0.2**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VEQ1AC**
		Dilution Factor: 1		Analysis Time..: 17:48		
Uranium	**0.63**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VEQ1AD**
		Dilution Factor: 1		Analysis Time..: 17:48		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-58S

TOTAL Metals

Lot-Sample #...: F7H290235-003 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 08:30 **Date Received..:** 08/28/07
% Moisture.....: 2.5

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	**7.8**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VET1AC**
		Dilution Factor: 1		Analysis Time..: 17:52		
Uranium	**1.0**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VET1AD**
		Dilution Factor: 1		Analysis Time..: 17:52		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-58D

TOTAL Metals

Lot-Sample #...: F7H290235-004 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 08:30 **Date Received..:** 08/28/07
% Moisture.....: 2.9

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	**6.6**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VEW1AC**
		Dilution Factor: 1		Analysis Time..: 17:55		
Uranium	**1.3**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VEW1AD**
		Dilution Factor: 1		Analysis Time..: 17:55		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-57S

TOTAL Metals

Lot-Sample #...: F7H290235-005 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 09:15 **Date Received..:** 08/28/07
% Moisture.....: 0.71

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	**8.2**	**0.2**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VEX1AC**
		Dilution Factor: 1		Analysis Time..: 17:59		
Uranium	**1.1**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VEX1AD**
		Dilution Factor: 1		Analysis Time..: 17:59		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-57D

TOTAL Metals

Lot-Sample #...: F7H290235-006 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 09:15 **Date Received..:** 08/28/07
% Moisture.....: 3.0

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	**6.9**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VE11AC**
		Dilution Factor: 1		Analysis Time..: 18:03		
Uranium	**1.9**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VE11AD**
		Dilution Factor: 1		Analysis Time..: 18:03		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-60S

TOTAL Metals

Lot-Sample #...: F7H290235-007 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 10:15 **Date Received..:** 08/28/07
% Moisture.....: 0.67

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	**6.3**	**0.2**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VE21AC**
		Dilution Factor: 1		Analysis Time..: 18:06		
Uranium	**1.0**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VE21AD**
		Dilution Factor: 1		Analysis Time..: 18:06		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-60D

TOTAL Metals

Lot-Sample #...: F7H290235-008 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 10:15 **Date Received..:** 08/28/07
% Moisture.....: 1.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	**11.9**	**0.2**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VE31AC**
		Dilution Factor: 1		Analysis Time..: 18:18		
Uranium	**3.2**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VE31AD**
		Dilution Factor: 1		Analysis Time..: 18:18		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-56S

TOTAL Metals

Lot-Sample #...: F7H290235-009 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 10:45 **Date Received..:** 08/28/07
% Moisture.....: 2.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	**7.5**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VE51AC**
		Dilution Factor: 1		Analysis Time..: 18:22		
Uranium	**1.1**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VE51AD**
		Dilution Factor: 1		Analysis Time..: 18:22		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-56D

TOTAL Metals

Lot-Sample #...: F7H290235-010 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 10:45 **Date Received..:** 08/28/07
% Moisture.....: 2.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	**28.2**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VF01AC**
		Dilution Factor: 1		Analysis Time..: 18:25		
Uranium	**3.8**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VF01AD**
		Dilution Factor: 1		Analysis Time..: 18:25		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-49S

TOTAL Metals

Lot-Sample #...: F7H290235-011 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 11:45 **Date Received..:** 08/28/07
% Moisture.....: 1.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	**8.2**	**0.2**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VF31AC**
		Dilution Factor: 1		Analysis Time..: 18:29		
Uranium	**1.1**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VF31AD**
		Dilution Factor: 1		Analysis Time..: 18:29		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-49D

TOTAL Metals

Lot-Sample #...: F7H290235-012 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 11:45 **Date Received..:** 08/28/07
% Moisture.....: 4.8

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	**7.5**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VF41AC**
		Dilution Factor: 1		Analysis Time..: 18:33		
Uranium	**1.4**	**0.11**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VF41AD**
		Dilution Factor: 1		Analysis Time..: 18:33		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-50S

TOTAL Metals

Lot-Sample #...: F7H290235-013 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 12:30 **Date Received..:** 08/28/07
% Moisture.....: 2.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	**8.2**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VF71AC**
		Dilution Factor: 1		Analysis Time..: 18:36		
Uranium	**1.5**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VF71AD**
		Dilution Factor: 1		Analysis Time..: 18:36		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-50D

TOTAL Metals

Lot-Sample #...: F7H290235-014 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 12:30 **Date Received..:** 08/28/07
% Moisture.....: 3.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	**6.4**	**0.21**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VF91AC**
		Dilution Factor: 1		Analysis Time..: 18:40		
Uranium	**1.5**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VF91AD**
		Dilution Factor: 1		Analysis Time..: 18:40		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-48S

TOTAL Metals

Lot-Sample #...: F7H290235-015 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 14:00 **Date Received..:** 08/28/07
% Moisture.....: 1.3

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	**8.1**	**0.2**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VGC1AC**
		Dilution Factor: 1		Analysis Time..: 18:44		
Uranium	**1.7**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VGC1AD**
		Dilution Factor: 1		Analysis Time..: 18:44		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-48D

TOTAL Metals

Lot-Sample #...: F7H290235-016 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 14:00 **Date Received..:** 08/28/07
% Moisture.....: 2.7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	5.4	0.21	mg/kg	SW846 6020	09/11-09/19/07	J5VGD1AC
		Dilution Factor: 1		Analysis Time..: 18:48		
Uranium	1.4	0.1	mg/kg	SW846 6020	09/11-09/19/07	J5VGD1AD
		Dilution Factor: 1		Analysis Time..: 18:48		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-51S

TOTAL Metals

Lot-Sample #...: F7H290235-017 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 15:00 **Date Received..:** 08/28/07
% Moisture.....: 1.1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	**7.4**	**0.2**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VGE1AC**
		Dilution Factor: 1		Analysis Time..: 18:51		
Uranium	**1.4**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VGE1AD**
		Dilution Factor: 1		Analysis Time..: 18:51		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-51D-1

TOTAL Metals

Lot-Sample #...: F7H290235-018 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 15:00 **Date Received..:** 08/28/07
% Moisture.....: 1.6

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	**4.3 J**	**0.2**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VGG1AC**
		Dilution Factor: 1		Analysis Time..: 19:03		
Uranium	**0.76 J**	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VGG1AD**
		Dilution Factor: 1		Analysis Time..: 19:03		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-51D-2

TOTAL Metals

Lot-Sample #...: F7H290235-019 **Matrix.....:** SOLID
Date Sampled...: 08/14/07 15:00 **Date Received..:** 08/28/07
% Moisture.....: 2.0

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7254073						
Thorium	**17.1** J	**0.2**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VGK1AC**
		Dilution Factor: 1		Analysis Time..: 19:07		
Uranium	**2.0** J	**0.1**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J5VGK1AD**
		Dilution Factor: 1		Analysis Time..: 19:07		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Irvine

Client Sample ID: BGS-A2-51E

TOTAL Metals

Lot-Sample #...: F7H290235-020 **Matrix.....:** WATER
Date Sampled...: 08/14/07 15:00 **Date Received..:** 08/28/07

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 7253324						
Thorium	**2.5**	**2**	**ug/L**	**SW846 6020**	**09/10-09/19/07**	**J5VGM1AA**
		Dilution Factor: 1		Analysis Time..: 16:55		
Uranium	ND	1	ug/L	SW846 6020	09/10-09/19/07	J5VGM1AC
		Dilution Factor: 1		Analysis Time..: 16:55		

EVALUATION OF INORGANIC DUPLICATE ANALYSIS PRECISION

Units mg/kg	PRECISION OBJECTIVES*		
	Analyte > or = 5 X RL	RPD < or =	40
	Analyte < 5 X RL	Difference < or = RL Times	2

* Enter the project-specific or default acceptance criteria

ANALYTE	BGS-A2-51D-1 Analyte Concentration	Qual	RL	BGS-A2-51D-2 Analyte Concentration	Qual	RL	Difference	RPD	Notes
thorium	4.3		0.2	17.1		0.2	NA	119.63%	1
uranium	0.76		0.1	2		0.1	NA	89.86%	1

NOTES:

Qual) Column to enter J, U, U*, or B

RPD) Relative Percent Difference

RL) Reporting Limit

J) The analyte concentration should be considered estimated.

U) The analyte was not-detected in the sample. The numerical value will be used for comparison purposes.

U* or B) The result was blank qualified. The numerical value will be used for comparison purposes.

NA) The RPD or Difference is not applicable.

1) Both results are > or = 5 X RL and RPD over acceptance limit, flag positive results "J".

2) At least one of the results is < 5 X RL and difference is over acceptance limit, flag positive results "J" and "not-detected" results "UJ".

Comments:

STL-ST. LOUIS

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP **Acceptable Range:** 90% - 110%

Standard Source: Inorganic Ventures **Standard ID:** See Standards Log

Element	WL/ Mass	True Conc	ICV 9/19/2007 4:17 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Thorium	232	200.0	207.65	**103.8**								
Uranium	238	200.0	216.30	**108.2**								

STL-ST. LOUIS

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP **Acceptable Range:** 90% - 110%

Standard Source: Inorganic Ventures **Standard ID:** See Standards Log

Element	WL/ Mass	True Conc	CCV 9/19/2007 4:40 PM		CCV 9/19/2007 5:25 PM		CCV 9/19/2007 6:10 PM		CCV 9/19/2007 6:55 PM		CCV 9/19/2007 7:40 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Thorium	232	200.0	204.30	102.2	206.67	103.3	195.35	97.7	202.28	101.1	197.95	99.0
Uranium	238	200.0	212.26	106.1	210.54	105.3	203.85	101.9	211.16	105.6	205.43	102.7

Version 4.75.1

Form 2A Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP **Acceptable Range:** 50% - 150%

Standard Source: Inorganic Ventures **Standard ID:** See Standards Log

Element	WL/ Mass	True Conc	CRI 9/19/2007 4:25 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Thorium	232	20.0	20.97	**104.9**								
Uranium	238	20.0	21.82	**109.1**								

Version 4.75.1

Form 2B Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB 9/19/2007 4:21 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Thorium	232	1	0.3	B								
Uranium	238	0.5	0.1	U								

Version 4.75.1

U Result is less than the IDL

B Result is between MDL and RL

Form 3 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB 9/19/2007 4:44 PM		CCB 9/19/2007 5:29 PM		CCB 9/19/2007 6:14 PM		CCB 9/19/2007 6:59 PM		CCB 9/19/2007 7:44 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Thorium	232	1	0.2	B	0.4	B	0.2	U	0.2	U	0.2	B
Uranium	238	0.5	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL

Form 3 Equivalent

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: F7H290235 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: F7I110000-073 **Prep Batch #...:** 7254073						
Thorium	**0.088 B**	**0.2**	**mg/kg**	**SW846 6020**	**09/11-09/19/07**	**J6HVN1AA**
		Dilution Factor: 1				
		Analysis Time..: 17:17				
Uranium	ND	0.1	mg/kg	SW846 6020	09/11-09/19/07	J6HVN1AC
		Dilution Factor: 1				
		Analysis Time..: 17:17				

NOTE(S):

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

B Estimated result. Result is less than RL.

STL-ST. LOUIS

Metals Data Reporting Form

Interference Check Standard A

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP **Acceptable Range:** 80% - 120%

Standard Source: Inorganic Ventures **Standard ID:** See Standards Log

Element	WL/ Mass	Reporting Limit	True Conc	ICSA 9/19/2007 4:29 PM Found	Found	Found	Found	Found
Thorium	232	1		0				
Uranium	238	0.5		0				

Version 4.75.1

U Result is less than the IDL

B Result is between MDL and RL

Form 4 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Interference Check Standard AB

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP **Acceptable Range:** 80% - 120%

Standard Source: Inorganic Ventures **Standard ID:** See Standards Log

Element	WL/ Mass	True Conc	ICSAB 9/19/2007 4:34 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Thorium	232	100	106.7	**106.7**								
Uranium	238	100	114.8	**114.8**								

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL
N Spike recovery failed

Form 4 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: J5VEPS

Original Sample ID: J5VEP **Client ID:** BGS-A2-59S S

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/11/2007 **Prep Batch:** 7254073

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 0.82

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Thorium	232	5.7		120		100.83	112.9	1	1	ICPMS	9/19/2007	17:33	9/19/2007	17:40
Uranium	238	1.0		114		100.83	112.4	1	1	ICPMS	9/19/2007	17:33	9/19/2007	17:40

75-125

Comments: Lot #: F7H290235 Sample #: 1

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: J5VEPD

Original Sample ID: J5VEP **Client ID:** BGS-A2-59S D

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/11/2007 **Prep Batch:** 7254073

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 0.82

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Thorium	232	5.7		118		100.83	111.2	1	1	ICPMS	9/19/2007	17:33	9/19/2007	17:44
Uranium	238	1.0		115		100.83	113.3	1	1	ICPMS	9/19/2007	17:33	9/19/2007	17:44

75-125

Comments: Lot #: F7H290235 Sample #: 1

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: J5VEPD

Matrix Spike Sample ID: J5VEPS **Client ID:** BGS-A2-59S D

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/11/2007 **Prep Batch:** 7254073

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 0.82

Element	WL/ Mass	MS Conc	Q	MSD Conc	Q	% RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Thorium	232	120		118		1.4	1	1	ICPMS	9/19/2007	17:40	9/19/2007	17:44
Uranium	238	114		115		0.8	1	1	ICPMS	9/19/2007	17:40	9/19/2007	17:44

435

Comments: Lot #: F7H290235 Sample #: 1

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 6 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: J6HVNC

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/11/2007 **Prep Batch:** 7254073

Weight: 0.5 **Volume:** 250 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Thorium	232	250	239	95.6		80-120	1	ICPMS	9/19/2007	17:21
Uranium	238	250	246	98.3		80-120	1	ICPMS	9/19/2007	17:21

75-125

Comments: Lot #: F7H290235

Version 4.75.1

U Result is less than the IDL

B Result is between MDL and RL

Form 7 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: J5VEPV

Original Sample ID: J5VEP **Client ID:** BGS-A2-59S

Matrix: Soil **Units:** mg/kg **Prep Date:** 9/11/2007 **Prep Batch:** 7254073

Weight: 0.5 **Volume:** 100 **Percent Moisture:** 0.82

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Thorium	232	5.7		5.7		0.3	1	5	ICPMS	9/19/2007	17:33	9/19/2007	17:37
Uranium	238	1.0		1.1		3.9	1	5	ICPMS	9/19/2007	17:33	9/19/2007	17:37

<10

Comments: 10X

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL
E Serial dilution percent difference not within limits

Form 9 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPMS **Units:** ug/L

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Thorium	232.00	1	0.21	12/23/2005
Uranium	238.00	0.5	0.10	1/6/2006

STL-ST. LOUIS

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPMS **Units:** ug/L

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Thorium	232.00	20000	1/16/2006
Uranium	238.00	20000	1/16/2006

STL-ST. LOUIS

Metals Data Reporting Form

Preparation Log

Preparation Batch: 7254073 **Instrument:** ICP **Matrix:** Soil

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
J6HVNB	9/11/2007	0.5	100	NA
J6HVNC	9/11/2007	0.5	250	NA
J5VE1	9/11/2007	0.5	100	2.96
J5VE2	9/11/2007	0.5	100	0.67
J5VE3	9/11/2007	0.5	100	1.45
J5VE5	9/11/2007	0.5	100	2.38
J5VEP	9/11/2007	0.5	100	0.82
J5VEPD	9/11/2007	0.5	100	0.82
J5VEPS	9/11/2007	0.5	100	0.82
J5VEQ	9/11/2007	0.5	100	0.7
J5VET	9/11/2007	0.5	100	2.52
J5VEW	9/11/2007	0.5	100	2.9
J5VEX	9/11/2007	0.5	100	0.71
J5VF0	9/11/2007	0.5	100	2.25
J5VF3	9/11/2007	0.5	100	1.84
J5VF4	9/11/2007	0.5	100	4.85
J5VF7	9/11/2007	0.5	100	2.3
J5VF9	9/11/2007	0.5	100	3.29
J5VGC	9/11/2007	0.5	100	1.27
J5VGD	9/11/2007	0.5	100	2.72
J5VGE	9/11/2007	0.5	100	1.06
J5VGG	9/11/2007	0.5	100	1.57
J5VGK	9/11/2007	0.5	100	2.01

STL-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPMS **Chart Number:** 091907M2.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
CALBLK		9/19/2007	15:55
CAL1		9/19/2007	15:58
CAL2		9/19/2007	16:01
CAL3		9/19/2007	16:04
CAL4		9/19/2007	16:08
CAL5		9/19/2007	16:11
ICV		9/19/2007	16:17
ICB		9/19/2007	16:21
CRI		9/19/2007	16:25
ICSA		9/19/2007	16:29
ICSAB		9/19/2007	16:34
CCV		9/19/2007	16:40
CCB		9/19/2007	16:44
ZZZZZZ		9/19/2007	16:48
ZZZZZZ		9/19/2007	16:52
ZZZZZZ		9/19/2007	16:55
ZZZZZZ		9/19/2007	16:59
ZZZZZZ		9/19/2007	17:03
ZZZZZZ		9/19/2007	17:06
ZZZZZZ		9/19/2007	17:10
ZZZZZZ		9/19/2007	17:14
J6HVNB		9/19/2007	17:17
J6HVNC		9/19/2007	17:21
CCV		9/19/2007	17:25
CCB		9/19/2007	17:29
J5VEP	BGS-A2-59S	9/19/2007	17:33
J5VEPV	BGS-A2-59S	9/19/2007	17:37
J5VEPS	BGS-A2-59S S	9/19/2007	17:40
J5VEPD	BGS-A2-59S D	9/19/2007	17:44
J5VEQ	BGS-A2-59D	9/19/2007	17:48
J5VET	BGS-A2-58S	9/19/2007	17:52
J5VEW	BGS-A2-58D	9/19/2007	17:55
J5VEX	BGS-A2-57S	9/19/2007	17:59
J5VE1	BGS-A2-57D	9/19/2007	18:03
J5VE2	BGS-A2-60S	9/19/2007	18:06
CCV		9/19/2007	18:10
CCB		9/19/2007	18:14
J5VE3	BGS-A2-60D	9/19/2007	18:18
J5VE5	BGS-A2-56S	9/19/2007	18:22

STL-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPMS **Chart Number:** 091907M2.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
J5VF0	BGS-A2-56D	9/19/2007	18:25
J5VF3	BGS-A2-49S	9/19/2007	18:29
J5VF4	BGS-A2-49D	9/19/2007	18:33
J5VF7	BGS-A2-50S	9/19/2007	18:36
J5VF9	BGS-A2-50D	9/19/2007	18:40
J5VGC	BGS-A2-48S	9/19/2007	18:44
J5VGD	BGS-A2-48D	9/19/2007	18:48
J5VGE	BGS-A2-51S	9/19/2007	18:51
CCV		9/19/2007	18:55
CCB		9/19/2007	18:59
J5VGG	BGS-A2-51D-1	9/19/2007	19:03
J5VGK	BGS-A2-51D-2	9/19/2007	19:07
ZZZZZZ		9/19/2007	19:11
ZZZZZZ		9/19/2007	19:14
ZZZZZZ		9/19/2007	19:18
ZZZZZZ		9/19/2007	19:21
ZZZZZZ		9/19/2007	19:25
ZZZZZZ		9/19/2007	19:29
ZZZZZZ		9/19/2007	19:32
ZZZZZZ		9/19/2007	19:36
CCV		9/19/2007	19:40
CCB		9/19/2007	19:44
ZZZZZZ		9/19/2007	19:48
ZZZZZZ		9/19/2007	19:52
ZZZZZZ		9/19/2007	19:55
ZZZZZZ		9/19/2007	19:59
ZZZZZZ		9/19/2007	20:03
ZZZZZZ		9/19/2007	20:07
ZZZZZZ		9/19/2007	20:10
ZZZZZZ		9/19/2007	20:14
ZZZZZZ		9/19/2007	20:18
ZZZZZZ		9/19/2007	20:21
ZZZZZZ		9/19/2007	20:25
ZZZZZZ		9/19/2007	20:29
ZZZZZZ		9/19/2007	20:33
ZZZZZZ		9/19/2007	20:37
ZZZZZZ		9/19/2007	20:40
ZZZZZZ		9/19/2007	20:44
ZZZZZZ		9/19/2007	20:48

STL-ST. LOUIS

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP **Acceptable Range:** 90% - 110%

Standard Source: INORGANIC VENTURES **Standard ID:** See Standards Log

Element	WL/ Mass	True Conc	ICV 9/19/2007 4:17 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Thorium	232	200.0	207.65	103.8								
Uranium	238	200.0	216.30	108.2								

Version 4.75.1

Form 2A Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP **Acceptable Range:** 90% - 110%

Standard Source: INORGANIC VENTURES **Standard ID:** See Standards Log

Element	WL/ Mass	True Conc	CCV 9/19/2007 4:40 PM Found	% Rec	CCV 9/19/2007 5:25 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Thorium	232	200.0	204.30	102.2	206.67	103.3						
Uranium	238	200.0	212.26	106.1	210.54	105.3						

STL-ST. LOUIS

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP **Acceptable Range:** 50% - 150%

Standard Source: Inorganic Ventures **Standard ID:** See Standards Log

Element	WL/ Mass	True Conc	CRI 9/19/2007 4:25 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Thorium	232	20.0	20.97	104.9								
Uranium	238	20.0	21.82	109.1								

Version 4.75.1

Form 2B Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	ICB 9/19/2007 4:21 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Thorium	232	2	0.3	U								
Uranium	238	1	0.2	U								

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL

Form 3 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: ICPMS **Units:** ug/L

Chart Number: 091907M2.REP

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	CCB 9/19/2007 4:44 PM Found	Q	CCB 9/19/2007 5:29 PM Found	Q	Found	Q	Found	Q	Found	Q
Thorium	232	2	0.3	U	0.4	B						
Uranium	238	1	0.2	U	0.2	U						

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL

Form 3 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Preparation Blank Results

Lab Sample ID: J6G43B

Matrix: Water **Units:** ug/L **Prep Date:** 9/10/2007 **Prep Batch:** 7253324

Weight: 50 **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	MDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Thorium	232	0.30	2.0	0.30	U	1	ICPMS	9/19/2007	16:48
Uranium	238	0.21	1.0	0.21	U	1	ICPMS	9/19/2007	16:48

Comments: Lot #: F7H290235

Version 4.75.1

U Result is less than the IDL

B Result is between MDL and RL

Form 3 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Matrix Spike Sample Results

Spike Sample ID: J5VGMS

Original Sample ID: J5VGM **Client ID:** BGS-A2-51E S

Matrix: Water **Units:** ug/L **Prep Date:** 9/10/2007 **Prep Batch:** 7253324

Weight: 50 **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Thorium	232	2.5		1040		1000	103.9	1	1	ICPMS	9/19/2007	16:55	9/19/2007	17:03
Uranium	238	0.21	U	1080		1000	107.8	1	1	ICPMS	9/19/2007	16:55	9/19/2007	17:03

75-125

Comments: Lot #: F7H290235 Sample #: 20

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Matrix Spike Duplicate Sample Results

Spike Sample ID: J5VGMD

Original Sample ID: J5VGM **Client ID:** BGS-A2-51E D

Matrix: Water **Units:** ug/L **Prep Date:** 9/10/2007 **Prep Batch:** 7253324

Weight: 50 **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	MSD Conc	Q	Spike Level	% Rec	OS DF	MSD DF	Instr	OS Anal Date	OS Anal Time	MSD Anal Date	MSD Anal Time
Thorium	232	2.5		1070		1000	106.6	1	1	ICPMS	9/19/2007	16:55	9/19/2007	17:06
Uranium	238	0.21	U	1090		1000	109.3	1	1	ICPMS	9/19/2007	16:55	9/19/2007	17:06

75-125

Comments: Lot #: F7H290235 Sample #: 20

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 5A Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Matrix Spike Duplicate RPD Report

Matrix Spike Duplicate Sample ID: J5VGMD

Matrix Spike Sample ID: J5VGMS **Client ID:** BGS-A2-51E D

Matrix: Water **Units:** ug/L **Prep Date:** 9/10/2007 **Prep Batch:** 7253324

Weight: 50 **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	MS Conc	Q	MSD Conc	Q	% RPD	MS DF	MSD DF	Instr	MS Anal Date	MS Anal Time	MSD Anal Date	MSD Anal Time
Thorium	232	1040		1070		2.5	1	1	ICPMS	9/19/2007	17:03	9/19/2007	17:06
Uranium	238	1080		1090		1.4	1	1	ICPMS	9/19/2007	17:03	9/19/2007	17:06

435

Comments: Lot #: F7H290235 Sample #: 20

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL
N Spike recovery failed
NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits

Form 6 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Laboratory Control Sample Results

Lab Sample ID: J6G43C

Matrix: Water **Units:** ug/L **Prep Date:** 9/10/2007 **Prep Batch:** 7253324

Weight: 50 **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Thorium	232	1000	1050	105.1		85-115	1	ICPMS	9/19/2007	16:52
Uranium	238	1000	1090	109.2		85-115	1	ICPMS	9/19/2007	16:52

75-125

Comments: Lot #: F7H290235

Version 4.75.1

U Result is less than the IDL

B Result is between MDL and RL

Form 7 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Serial Dilution RPD Report

Serial Dilution Sample ID: J5VGMV

Original Sample ID: J5VGM **Client ID:** BGS-A2-51E

Matrix: Water **Units:** ug/L **Prep Date:** 9/10/2007 **Prep Batch:** 7253324

Weight: 50 **Volume:** 50 **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Thorium	232	2.5		1.5	U		1	5	ICPMS	9/19/2007	16:55	9/19/2007	16:59
Uranium	238	0.21	U	1.1	U		1	5	ICPMS	9/19/2007	16:55	9/19/2007	16:59

Comments: 10X

Version 4.75.1

U Result is less than the IDL
B Result is between MDL and RL
E Serial dilution percent difference not within limits

Form 9 Equivalent

STL-ST. LOUIS

Metals Data Reporting Form

Instrument Detection Limits

Instrument: ICPMS **Units:** ppb

Element	Wavelength /Mass	Reporting Limit	MDL	Date of MDL
Thorium	232.00	2	0.30	1/11/2007
Uranium	238.00	1	0.21	12/23/2005

STL-ST. LOUIS

Metals Data Reporting Form

Linear Dynamic Ranges

Instrument: ICPMS **Units:** ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Thorium	232.00	20000	1/16/2006
Uranium	238.00	20000	1/16/2006

STL-ST. LOUIS

Metals Data Reporting Form

Preparation Log

Preparation Batch: 7253324 **Instrument:** ICP **Matrix:** Water

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
J6G43B	9/10/2007	50	50	NA
J6G43C	9/10/2007	50	50	NA
J5VGM	9/10/2007	50	50	NA
J5VGMD	9/10/2007	50	50	NA
J5VGMS	9/10/2007	50	50	NA

STL-ST. LOUIS

Metals Data Reporting Form

Instrument Runlog

Instrument: ICPMS **Chart Number:** 091907M2.REP

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
CALBLK		9/19/2007	15:55
CAL1		9/19/2007	15:58
CAL2		9/19/2007	16:01
CAL3		9/19/2007	16:04
CAL4		9/19/2007	16:08
CAL5		9/19/2007	16:11
ICV		9/19/2007	16:17
ICB		9/19/2007	16:21
CRI		9/19/2007	16:25
ICSA		9/19/2007	16:29
ICSAB		9/19/2007	16:34
CCV		9/19/2007	16:40
CCB		9/19/2007	16:44
J6G43B		9/19/2007	16:48
J6G43C		9/19/2007	16:52
J5VGM	BGS-A2-51E	9/19/2007	16:55
J5VGMV	BGS-A2-51E	9/19/2007	16:59
J5VGMS	BGS-A2-51E S	9/19/2007	17:03
J5VGMD	BGS-A2-51E D	9/19/2007	17:06
ZZZZZZ		9/19/2007	17:10
ZZZZZZ		9/19/2007	17:14
ZZZZZZ		9/19/2007	17:17
ZZZZZZ		9/19/2007	17:21
CCV		9/19/2007	17:25
CCB		9/19/2007	17:29
ZZZZZZ		9/19/2007	17:33
ZZZZZZ		9/19/2007	17:37
ZZZZZZ		9/19/2007	17:40
ZZZZZZ		9/19/2007	17:44
ZZZZZZ		9/19/2007	17:48
ZZZZZZ		9/19/2007	17:52
ZZZZZZ		9/19/2007	17:55
ZZZZZZ		9/19/2007	17:59
ZZZZZZ		9/19/2007	18:03
ZZZZZZ		9/19/2007	18:06
ZZZZZZ		9/19/2007	18:10
ZZZZZZ		9/19/2007	18:14
ZZZZZZ		9/19/2007	18:18
ZZZZZZ		9/19/2007	18:22

% solids

STL St. Louis Laboratory
Percent Total Solid/Percent Moisture Logsheet

Analysis: %Moisture Time In: 6:43 Temp: 103.0 Batch: 7242133

Prep Date: 08/31/07 Time Out:* 3:00 Temp: 104.0 Analyst: sdb

Anal Date: 09/01/07 * if less than 12 hours, complete page 2 of this spreadsheet Reviewed By: (d

Balance 1 SN: E49883

SOP	Rev.	Date
STL-WC-0005	6	6/15/2007

Pan Number	Sample Id	Pan wt	Wet Sam + Pan g	Dry Sam + Pan wt	Results % Solids	Results % Moisture	Comments
1	J5VEP-001	1.2731	8.7260	8.6646	99.18	0.82	
2	J5VEQ-001	1.2689	10.5164	10.4519	99.30	0.70	
3	J5VET-001	1.2674	8.6425	8.4570	97.48	2.52	
4	J5VEW-001	1.2755	11.5233	11.2264	97.10	2.90	
5	J5VEX-001	1.2749	10.6040	10.5376	99.29	0.71	
6	J5VE1-001	1.2704	8.7254	8.5044	97.04	2.96	
7	J5VE2-001	1.2620	10.4279	10.3663	99.33	0.67	
8	J5VE3-001	1.2723	10.7153	10.5782	98.55	1.45	
9	J5VE5-001	1.2690	14.6490	14.3304	97.62	2.38	
10	J5VF0-001	1.2757	11.2800	11.0546	97.75	2.25	
11	J5VF3-001	1.2558	11.4142	11.2275	98.16	1.84	
12	J5VF4-001	1.2563	8.9415	8.5688	95.15	4.85	
13	J5VF7-001	1.2550	16.0439	15.7036	97.70	2.30	
14	J5VF9-001	1.2680	9.5737	9.3002	96.71	3.29	
15	J5VGC-001	1.2731	11.4713	11.3413	98.73	1.27	
16	J5VGD-001	1.2798	9.1132	8.9002	97.28	2.72	
17	J5VGE-001	1.2708	11.2822	11.1757	98.94	1.06	
18	J5VGG-001	1.2818	11.8022	11.6369	98.43	1.57	
19	J5VGK-001	1.2721	15.2992	15.0177	97.99	2.01	
20	J5VGKX	1.2713	19.1026	18.7798	98.19	1.81	
21							
22							
23							
24							
25							
26							
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33							
34							
35							
36							
37							

Case Narrative
LOT NUMBER: **F7H290235**

This report contains the analytical results for the 20 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.

LOT# F7H290235

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

PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: Test America - St. Louis

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-A2-59S	8/14/07	0800	PB	1	9oz plas	NONE	S	U, Th (6020)					----	
02	BGS-A2-59D	↓	↓	PB	↓	↓	↓	S	↓					----	
03	BGS-A2-58S		0830	↓	↓	↓	↓	↓	↓					----	
04	BGS-A2-58D		↓	↓	↓	↓	↓	↓	↓					----	
05	BGS-A2-57S		09:15	↓	↓	↓	↓	↓	↓					----	
06	BGS-A2-57D		↓	↓	↓	↓	↓	↓	↓					----	
07	BGS-A2-60S		10:15	↓	↓	↓	↓	↓	↓					----	
08	BGS-A2-60D		↓	↓	↓	↓	↓	↓	↓					----	
09	BGS-A2-56S		10:45	↓	↓	↓	↓	↓	↓					----	
10	BGS-A2-56D	↓	↓	↓	↓	↓	↓	↓	↓					----	

COLLECTED & RELEASED BY: Penny Barrett	DATE 8 24 07	TIME 1400	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY: [signature]	DATE 8 24 07	TIME 1400	RELINQUISHED BY:	DATE / /	TIME :	
						Level 4
						ENFOS Billing Acct NO.
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109
COURIER:			SHIPPING NUMBER:			

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

LOT# F7H290235

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

PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: Test America - St. Louis

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-A2-49S	8/14/07	11:45	PB	1	9oz Plastic	NONE	S	U, Th (6020)					----	
02	BGS-A2-49D	↓	↓	↓	↓	↓	↓	↓	↓					----	
03	BGS-A2-50S		12:30											----	
04	BGS-A2-50D		↓											----	
05	BGS-A2-48S		14:00											----	
06	BGS-A2-48D		↓											----	
07	BGS-A2-51S		15:00											----	
08	BGS-A2-51D1													----	
09	BGS-A2-51D2					↓	↓	↓						----	
10	BGS-A2-51E	↓	↓	↓	↓	500 mL Plastic	HNO_3	W	↓					----	

COLLECTED & RELEASED BY: Penny Barnett	DATE 8/24/07	TIME 14:00	COOLER I.D.:		COMMENTS (see note on back):
RECEIVED BY: [illegible]	DATE 8/24/07	TIME 0900	RELINQUISHED BY:	DATE / /	TIME :
					Level 4
					Exxon Billing Acct NO: 001KF-0109
RECORD RETURNED BY:	DATE / /	TIME :			
COURIER:			SHIPPING NUMBER:		

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Lot #(s): F7H290155- F7H290227, 229
200- 235
206- 239-
214- 245

Condition Upon Receipt Form

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

Shipping Information

Shipper Name: FC
Shipping # (s):*

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

Multiple Packages (Y) N
Sample Temperature (s):**

1.	Quadcat	6.	
2.	1	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: _____ 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.