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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 collectively analyzed for ICP metals, ICP/MS metals, and mercury.

Based on this quality assurance review, the results for sodium, boron, chromium, barium, and zinc in several samples were qualified as "not-detected" due to blank contamination. The results for antimony, arsenic, barium, chromium, copper, manganese, molybdenum, selenium, sodium, and vanadium in several samples were qualified as estimated due to out-of-criteria matrix spike/matrix spike duplicate recoveries. The results for arsenic in several samples were qualified as estimated due to a low reporting limit standard recovery. The results for manganese and copper in two samples were qualified as estimated due to field duplicate imprecision. In addition, several metals results were qualified as estimated because the reported results were between the method detection limit and reporting limit.

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

Sincerely,

Konstadina Vlahogiani, M.S.
Senior Quality Assurance Chemist III/
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Concurred by:

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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
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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(s)	Project Number	Matrix	Date Sample Collected	Parameter(s) Examined
BGS-A1-02S	IQH1759-01	IQH1759	Soil	8/15/07	M^1, M^2, Hg
BGS-A1-02SMS (Matrix Spike)	7H20140-MS1 7H24146-MS1 7H27086-MS1	IQH1759	Soil	8/15/07	M^1 M^2 Hg
BGS-A1-02SMSD (Matrix Spike Duplicate)	7H20140-MSD1 7H24146-MSD1 7H27086-MSD1	IQH1759	Soil	8/15/07	M^1 M^2 Hg
BGS-A1-02D	IQH1759-02	IQH1759	Soil	8/15/07	M^1, M^2, Hg
BGS-A1-05S	IQH1759-03	IQH1759	Soil	8/15/07	M^1, M^2, Hg
BGS-A1-05D	IQH1759-04	IQH1759	Soil	8/15/07	M^1, M^2, Hg
BGS-A1-05DMS (Matrix Spike)	7H28101-MS1	IQH1759	Soil	8/15/07	M^2
BGS-A1-05DMSD (Matrix Spike Duplicate)	7H28101-MSD1	IQH1759	Soil	8/15/07	M^2
BGS-A1-06S	IQH1759-05	IQH1759	Soil	8/15/07	M^1, M^2, Hg
BGS-A1-06D	IQH1759-06	IQH1759	Soil	8/15/07	M^1, M^2, Hg
BGS-A1-14S	IQH1759-07	IQH1759	Soil	8/15/07	M^1, M^2, Hg
BGS-A1-14D	IQH1759-08	IQH1759	Soil	8/15/07	M^1, M^2, Hg
BGS-A2-48S	IQH1759-09	IQH1759	Soil	8/15/07	M^1, M^2, Hg
BGS-A2-48D	IQH1759-10	IQH1759	Soil	8/14/07	M^1, M^2, Hg
BGS-A2-49S	IQH1759-11	IQH1759	Soil	8/14/07	M^1, M^2, Hg
BGS-A2-49D	IQH1759-12	IQH1759	Soil	8/14/07	M^1, M^2, Hg
BGS-A2-50S	IQH1759-13	IQH1759	Soil	8/14/07	M^1, M^2, Hg
BGS-A2-50D	IQH1759-14	IQH1759	Soil	8/14/07	M^1, M^2, Hg
BGS-A2-51S	IQH1759-15	IQH1759	Soil	8/14/07	M^1, M^2, Hg
BGS-A2-51D-1	IQH1759-16	IQH1759	Soil	8/14/07	M^1, M^2, Hg
BGS-A2-51D-2 (Field Duplicate of BGS-A2-51D-1)	IQH1759-17	IQH1759	Soil	8/14/07	M^1, M^2, Hg

TABLE 1 (Cont.)

Field Sample Identification	Laboratory Sample Identification(s)	Project Number	Matrix	Date Sample Collected	Parameter(s) Examined
BGS-A2-51E (Equipment Blank)	IQH1759-18	IQH1759	Aq	8/14/07	M^1, M^2, Hg
BGS-A2-51EMS (Matrix Spike)	7H27111-MS1	IQH1759	Aq	8/14/07	M^1
BGS-A2-51EMSD (Matrix Spike Duplicate)	7H27111-MSD1	IQH1759	Aq	8/14/07	M^1
BGS-A2-53S	IQH1759-19	IQH1759	Soil	8/15/07	M^1, M^2, Hg
BGS-A2-53D	IQH1759-20	IQH1759	Soil	8/15/07	M^1, M^2, Hg
BGS-A2-56S	IQH1759-25	IQH1759	Soil	8/14/07	M^1, M^2, Hg
BGS-A2-56D	IQH1759-26	IQH1759	Soil	8/14/07	M^1, M^2, Hg
BGS-A2-57S	IQH1759-27	IQH1759	Soil	8/14/07	M^1, M^2, Hg
BGS-A2-57SMS (Matrix Spike)	7H28066-MS1	IQH1759	Soil	8/14/07	Hg
BGS-A2-57SMSD (Matrix Spike Duplicate)	7H28066-MSD1	IQH1759	Soil	8/14/07	Hg
BGS-A2-57D	IQH1759-28	IQH1759	Soil	8/14/07	M^1, M^2, Hg
BGS-A2-58S	IQH1759-29	IQH1759	Soil	8/14/07	M^1, M^2, Hg
BGS-A2-58SMS (Matrix Spike)	7H28132-MS1	IQH1759	Soil	8/14/07	M^2
BGS-A2-58SMSD (Matrix Spike Duplicate)	7H28132-MSD1	IQH1759	Soil	8/14/07	M^2
BGS-A2-58D	IQH1759-30	IQH1759	Soil	8/14/07	M^1, M^2, Hg
BGS-A2-59S	IQH1759-31	IQH1759	Soil	8/14/07	M^1, M^2, Hg
BGS-A2-59D	IQH1759-32	IQH1759	Soil	8/14/07	M^1, M^2, Hg
BGS-A2-60S	IQH1759-33	IQH1759	Soil	8/14/07	M^1, M^2, Hg
BGS-A2-60D	IQH1759-34	IQH1759	Soil	8/14/07	M^1, M^2, Hg

NOTES:

M^1 - Metals (specifically, aluminum, boron, calcium, iron, potassium, magnesium, manganese, and sodium) by SW-846 Method 6010B.

M^2 - Metals (specifically, silver, arsenic, barium, beryllium, cadmium, cobalt, chromium, copper, molybdenum, nickel, lead, antimony, selenium, thallium, vanadium, and zinc) by SW-846 Method 6020.

Hg - Mercury by SW-846 Methods 7470A/7471A.

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.

A. ICP Metals Analysis

Thirty-four samples (including quality control [QC] samples) were analyzed for ICP metals (specifically, aluminum, boron, calcium, iron, potassium, magnesium, manganese, and sodium) by SW-846 Method 6010B. 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	√			

Blank Analysis Results: Sodium was observed to be present in a method blank associated with the project samples. The reported positive results for sodium in samples BGS-A2-51S and BGS-A2-53D should be considered “not-detected” and have been flagged “UJ” on the data tables.

Boron was observed to be present in an equipment blank associated with the project samples. The reported positive results for boron in samples BGS-A2-48D, BGS-A2-50S, BGS-A2-51S, BGS-A2-51D-1, BGS-A2-51D-2, BGS-A2-56S, BGS-A2-56D, BGS-A2-57S, BGS-A2-57D, BGS-A2-58S, BGS-A2-58D, BGS-A2-60S, and BGS-A2-60D should be considered “not-detected” and have been flagged “UJ” on the data tables.

MS/MSD Recoveries and Precision: High (> 125%) recoveries were observed for sodium in a set of MS/MSD analyses. The reported positive results for sodium in samples BGS-A1-02S, BGS-A1-02D, BGS-A1-05S, BGS-A1-05D, BGS-A1-06S, BGS-A1-06D, BGS-A1-14S,

BGS-A1-14D, BGS-A2-48S, BGS-A2-48D, BGS-A2-49S, BGS-A2-49D, BGS-A2-50S, BGS-A2-50D, BGS-A2-51D-1, BGS-A2-51D-2, and BGS-A2-53S should be considered estimated and have been flagged "J" on the data tables.

Low (< 75%) recoveries were observed for antimony in a set of MS/MSD analyses, indicating a low bias. The detection limits for antimony in samples BGS-A2-56S, BGS-A2-56D, BGS-A2-57S, BGS-A2-57D, BGS-A2-58S, BGS-A2-58D, BGS-A2-59S, BGS-A2-59D, BGS-A2-60S, and BGS-A2-60D may be higher than reported, and the "not-detected" results have been flagged "UJ" on the data tables.

High (> 125%) recoveries were observed for manganese in a set of MS/MSD analyses. The reported positive results for manganese in samples BGS-A2-56S, BGS-A2-56D, BGS-A2-57S, BGS-A2-57D, BGS-A2-58S, BGS-A2-58D, BGS-A2-59S, BGS-A2-59D, BGS-A2-60S, and BGS-A2-60D should be considered estimated and have been flagged "J" on the data tables.

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

Quantitation of Positive Results: All positive results reported at concentrations greater than the method detection limit (MDL) but less than the reporting limit (RL) were qualified as estimated and have been flagged "J" on the data tables.

B. ICP/MS Metals Analysis

Thirty-six samples (including QC samples) were analyzed for ICP/MS metals (specifically, silver, arsenic, barium, beryllium, cadmium, cobalt, chromium, copper, molybdenum, nickel, lead, antimony, selenium, thallium, vanadium, and zinc) 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	√			

Item Reviewed	Acceptable	Acceptable With Discussion	Acceptable With Qualification	Not Acceptable
Quantitation of Positive Results			√	
A Critical Evaluation of Instrumental Raw Data	√			

Blank Analysis Results: Zinc was observed to be present in a method blank associated with the project samples. The reported positive results for zinc in samples BGS-A2-51D-2, BGS-A2-53S, BGS-A2-53D, BGS-A2-56S, BGS-A2-56D, BGS-A2-57S, BGS-A2-57D, BGS-A2-58S, BGS-A2-58D, BGS-A2-59S, BGS-A2-59D, BGS-A2-60S, and BGS-A2-60D should be considered "not-detected" and have been flagged "UJ" on the data tables.

Chromium was observed to be present in a method blank associated with the project samples. The reported positive result for chromium in sample BGS-A1-02S should be considered "not-detected" and has been flagged "UJ" on the data tables.

Barium was observed to be present in an equipment blank associated with the project samples. The reported positive result for barium in sample BGS-A2-59D should be considered "not-detected" and has been flagged "UJ" on the data tables.

MS/MSD Recoveries and Precision: Low (< 75%) recoveries were observed for arsenic, barium, chromium, copper, molybdenum, selenium, and vanadium in an associated MSD analysis, indicating a low bias. The detection limits for these analytes in samples BGS-A2-51D-2, BGS-A2-53S, BGS-A2-53D, BGS-A2-56S, BGS-A2-56D, BGS-A2-57S, BGS-A2-57D, BGS-A2-58S, BGS-A2-58D, BGS-A2-59S, BGS-A2-59D, BGS-A2-60S, and BGS-A2-60D may be higher than reported, and the "not-detected" results have been flagged "UJ" on the data tables. In addition any reported positive results for these analytes in samples BGS-A2-51D-2, BGS-A2-53S, BGS-A2-53D, BGS-A2-56S, BGS-A2-56D, BGS-A2-57S, BGS-A2-57D, BGS-A2-58S, BGS-A2-58D, BGS-A2-59S, BGS-A2-59D, BGS-A2-60S, and BGS-A2-60D should be considered estimated and have been flagged "J" on the data tables.

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

RL Standard Recoveries: Low recoveries (< 50%) were observed for arsenic in an associated reporting limit (RL) standard analysis, indicating a low bias for concentrations near the RL. The detection limits for arsenic in samples BGS-A1-02D, BGS-A1-05S, BGS-A1-05D, BGS-A1-06S, and BGS-A1-14S may be higher than reported, and the "not-detected" results have been flagged "UJ" on the data tables. In addition, the reported positive results for arsenic in samples BGS-A1-06D, BGS-A1-14D, BGS-A2-48S, BGS-A2-48D, BGS-A2-49S, BGS-A2-49D, BGS-A2-50S, BGS-A2-50D, BGS-A2-51S, and BGS-A2-51D-1 should be considered estimated and have been flagged "J" on the data tables.

Quantitation of Positive Results: All positive results reported at concentrations greater than the MDL but less than the RL were qualified as estimated and have been flagged "J" on the data tables.

C. Mercury Analysis

Thirty-four samples (including QC samples) were analyzed for mercury by SW-846 Methods 7470A/7471A. 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	√			
Detection Limits/Sensitivity	√			
Calibrations	√			
Field Duplicate Precision	√			
Analytical Sequence	√			
Sample Preparation	√			
Quantitation of Positive Results			√	
A Critical Evaluation of Instrumental Raw Data	√			

Quantitation of Positive Results: All positive results reported at concentrations greater than the MDL but less than the RL were qualified as estimated and have been flagged "J" on the data tables.

3.0 Qualifier Summary Tables

A. ICP Metals Analysis

Analyte	Project Number	Samples	Validation Qualifier	Reason for Qualification
sodium	IQH1759	BGS-A2-51S and BGS-A2-53D	UJ	2 – Method blank contamination
boron	IQH1759	BGS-A2-48D, BGS-A2-50S, BGS-A2-51S, BGS-A2-51D-1, BGS-A2-51D-2, BGS-A2-56S, BGS-A2-56D, BGS-A2-57S, BGS-A2-57D, BGS-A2-58S, BGS-A2-58D, BGS-A2-60S, and BGS-A2-60D	UJ	7 – Equipment blank contamination

Analyte	Project Number	Samples	Validation Qualifier	Reason for Qualification
sodium	IQH1759	BGS-A1-02S, BGS-A1-02D, BGS-A1-05S, BGS-A1-05D, BGS-A1-06S, BGS-A1-06D, BGS-A1-14S, BGS-A1-14D, BGS-A2-48S, BGS-A2-48D, BGS-A2-49S, BGS-A2-49D, BGS-A2-50S, BGS-A2-50D, BGS-A2-51D-1, BGS-A2-51D-2, and BGS-A2-53S	J	4H – High MSD recovery
antimony	IQH1759	BGS-A2-56S, BGS-A2-56D, BGS-A2-57S, BGS-A2-57D, BGS-A2-58S, BGS-A2-58D, BGS-A2-59S, BGS-A2-59D, BGS-A2-60S, and BGS-A2-60D	UJ	4L – Low MS/MSD recoveries
manganese	IQH1759	BGS-A2-56S, BGS-A2-56D, BGS-A2-57S, BGS-A2-57D, BGS-A2-58S, BGS-A2-58D, BGS-A2-59S, BGS-A2-59D, BGS-A2-60S, and BGS-A2-60D	J	4H – High MS recovery
manganese	IQH1759	BGS-A2-51D-1 and BGS-A2-51D-2	J	8 – Field duplicate precision outside of limits

All positive results reported between the MDL and RL have been flagged “J.” (Valid Reason Code: T)

B. ICP/MS Metals Analysis

Analyte(s)	Project Number	Sample(s)	Validation Qualifier	Reason for Qualification
zinc	IQH1759	BGS-A2-51D-2, BGS-A2-53S, BGS-A2-53D, BGS-A2-56S, BGS-A2-56D, BGS-A2-57S, BGS-A2-57D, BGS-A2-58S, BGS-A2-58D, BGS-A2-59S, BGS-A2-59D, BGS-A2-60S, and BGS-A2-60D	UJ	2 – Method blank contamination
chromium	IQH1759	BGS-A1-02S	UJ	2 – Method blank contamination
barium	IQH1759	BGS-A2-59D	UJ	7 – Equipment blank contamination

Analyte(s)	Project Number	Sample(s)	Validation Qualifier	Reason for Qualification
arsenic, barium, chromium, copper, molybdenum, selenium, and vanadium	IQH1759	BGS-A2-51D-2, BGS-A2-53S, BGS-A2-53D, BGS-A2-56S, BGS-A2-56D, BGS-A2-57S, BGS-A2-57D, BGS-A2-58S, BGS-A2-58D, BGS-A2-59S, BGS-A2-59D, BGS-A2-60S, and BGS-A2-60D	J/UJ	4L – Low MSD recoveries
copper	IQH1759	BGS-A2-51D-1 and BGS-A2-51D-2	J	8 – Field duplicate precision outside limits
arsenic	IQH1759	BGS-A1-02D, BGS-A1-05S, BGS-A1-05D, BGS-A1-06S, and BGS-A1-14S	UJ	9L – Low RL standard recovery
arsenic	IQH1759	BGS-A1-06D, BGS-A1-14D, BGS-A2-48S, BGS-A2-48D, BGS-A2-49S, BGS-A2-49D, BGS-A2-50S, BGS-A2-50D, BGS-A2-51S, and BGS-A2-51D-1	J	9L – Low RL standard recovery

All positive results reported between the MDL and RL have been flagged “J.” (Valid Reason Code: T)

C. Mercury Analysis

Analyte	Project Number	Sample	Validation Qualifier	Reason for Qualification
mercury	IQH1759	BGS-A1-02S	J	T - positive result reported between the MDL and RL

4.0 Overall Assessment

Based on this quality assurance review, the results for sodium, boron, chromium, barium, and for zinc in several samples were qualified as “not-detected” due to blank contamination. The results for antimony, arsenic, barium, chromium, copper, manganese, molybdenum, selenium, sodium, and vanadium in several samples were qualified as estimated due to out-of-criteria MS/MSD recoveries. The results for arsenic in several samples were qualified as estimated due to a low RL standard recovery. The results for manganese and copper in two samples were qualified as estimated due to field duplicate imprecision. In addition, several metals results were qualified as estimated because the reported results were between the MDL and RL.

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
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

Report prepared by:

Thomas H. Weinmann
Senior Quality Assurance Chemist I

Report reviewed by:

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Date: 10/31/07

7.0 ANALYTICAL RESULTS

			Lab Sample	IQH1759-01					IQH1759-02				
			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**
SW6010B	AL	ALUMINUM	MG/KG	11000		5	10	0	7900		5	10	0
	B	BORON	MG/KG	19		2.1	5	0	12		2.1	5	0
	CA	CALCIUM	MG/KG	5100		6.2	15	0	7500		6.3	15	0
	FE	IRON	MG/KG	13000		1.5	5	0	11000		1.5	5	0
	K	POTASSIUM	MG/KG	2500		19	50	0	1000		19	50	0
	MG	MAGNESIUM	MG/KG	4000		1	10	0	3000		1	10	0
	MN	MANGANESE	MG/KG	370		0.8	1	0	300		0.8	1	0
	NA	SODIUM	MG/KG	570	J / 4H	24	50	0	680	J / 4H	24	50	0
	SB	ANTIMONY	MG/KG	0.88	U	0.88	10	0	0.88	U	0.88	10	0
SW6020	AG	SILVER	MG/KG	0.5	U	0.5	2.5	0	0.5	U	0.5	2.5	0
	AS	ARSENIC	MG/KG	3.9		1.8	2.5	0	1.8	UJ / 9L	1.8	2.5	0
	BA	BARIUM	MG/KG	83		0.65	2.5	0	76		0.65	2.5	0
	BE	BERYLLIUM	MG/KG	0.56	J / T	0.2	1.5	0	0.44	J / T	0.2	1.5	0
	CD	CADMIUM	MG/KG	0.3	U	0.3	2.5	0	0.3	U	0.3	2.5	0
	CO	COBALT	MG/KG	4.2		0.4	2.5	0	3.3		0.4	2.5	0
	CR	CHROMIUM, TO	MG/KG	6.5	UJ / 2	6.5	15	0	1.8		1.8	5	0
	CU	COPPER	MG/KG	13		1.9	5	0	6.9		1.9	5	0
	MO	MOLYBDENUM	MG/KG	0.48	J / T	0.4	5	0	0.4		0.4	5	0
	NI	NICKEL	MG/KG	4.4	J / T	2.2	5	0	2.2	U	2.2	5	0
	PB	LEAD	MG/KG	9.4		0.25	2.5	0	5.8		0.25	2.5	0
	SE	SELENIUM	MG/KG	0.75	U	0.75	5	0	0.75		0.75	5	0
	TL	THALLIUM	MG/KG	0.52	J / T	0.4	2.5	0	0.4	U	0.4	2.5	0
	V	VANADIUM	MG/KG	24		1.8	5	0	19		1.8	5	0
	ZN	ZINC	MG/KG	34	J / T	6.5	50	0	25	J / T	6.5	50	0
SW7471A	HG	MERCURY	MG/KG	0.018	J / T	0.012	0.02	0	0.012	U	0.012	0.02	0

			Lab Sample	IQH1759-03					IQH1759-04				
			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**
SW6010B	AL	ALUMINUM	MG/KG	10000		5	10	0	7800		5	10	0
	B	BORON	MG/KG	23		2.1	5	0	20		2.1	5	0
	CA	CALCIUM	MG/KG	2700		6.3	15	0	2700		6.2	15	0
	FE	IRON	MG/KG	12000		1.5	5	0	11000		1.5	5	0
	K	POTASSIUM	MG/KG	2000		19	50	0	1400		19	50	0
	MG	MAGNESIUM	MG/KG	2900		1	10	0	2300		1	10	0
	MN	MANGANESE	MG/KG	290		0.8	1	0	190		0.8	1	0
	NA	SODIUM	MG/KG	530	J / 4H	24	50	0	350	J / 4H	24	50	0
	SB	ANTIMONY	MG/KG	0.88	U	0.88	10	0	0.88	U	0.88	10	0
SW6020	AG	SILVER	MG/KG	0.5	U	0.5	2.5	0	0.5	U	0.5	2.5	0
	AS	ARSENIC	MG/KG	1.7	UJ / 9L	1.7	2.5	0	1.8	UJ / 9L	1.8	2.5	0
	BA	BARIUM	MG/KG	70		0.65	2.5	0	56		0.65	2.5	0
	BE	BERYLLIUM	MG/KG	0.41	J / T	0.2	1.5	0	0.28	J / T	0.2	1.5	0
	CD	CADMIUM	MG/KG	0.3	U	0.3	2.5	0	0.3	U	0.3	2.5	0
	CO	COBALT	MG/KG	4.6		0.4	2.5	0	2.9		0.4	2.5	0
	CR	CHROMIUM, TO	MG/KG	3.5	J / T	1.7	5	0	3.7	J / T	1.8	5	0
	CU	COPPER	MG/KG	12		1.9	5	0	9.2		1.9	5	0
	MO	MOLYBDENUM	MG/KG	0.4		0.4	5	0	0.4	U	0.4	5	0
	NI	NICKEL	MG/KG	4	J / T	2.2	5	0	3.3	J / T	2.2	5	0
	PB	LEAD	MG/KG	5.6		0.25	2.5	0	3.9		0.25	2.5	0
	SE	SELENIUM	MG/KG	0.75	U	0.75	5	0	0.75	U	0.75	5	0
	TL	THALLIUM	MG/KG	0.4	U	0.4	2.5	0	0.45	J / T	0.4	2.5	0
	V	VANADIUM	MG/KG	20		1.7	5	0	20		1.8	5	0
	ZN	ZINC	MG/KG	22	J / T	6.5	50	0	17	J / T	6.5	50	0
SW7471A	HG	MERCURY	MG/KG	0.012	U	0.012	0.02	0	0.012	U	0.012	0.02	0

			Lab Sample	IQH1759-05					IQH1759-06				
			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**
SW6010B	AL	ALUMINUM	MG/KG	4200		5	10	0	10000		5	10	0
	B	BORON	MG/KG	18		2.1	5	0	17		2.1	5	0
	CA	CALCIUM	MG/KG	2200		6.2	15	0	4600		6.2	15	0
	FE	IRON	MG/KG	9500		1.5	5	0	12000		1.5	5	0
	K	POTASSIUM	MG/KG	1100		19	50	0	1400		19	50	0
	MG	MAGNESIUM	MG/KG	1500		1	10	0	3200		1	10	0
	MN	MANGANESE	MG/KG	220		0.8	1	0	260		0.8	1	0
	NA	SODIUM	MG/KG	670	J / 4H	24	50	0	1200	J / 4H	24	50	0
	SB	ANTIMONY	MG/KG	0.88	U	0.88	10	0	0.88	U	0.88	10	0
SW6020	AG	SILVER	MG/KG	0.5	U	0.5	2.5	0	0.5	U	0.5	2.5	0
	AS	ARSENIC	MG/KG	1.7	UJ / 9L	1.7	2.5	0	2.9	J / 9L	1.8	2.5	0
	BA	BARIUM	MG/KG	43		0.65	2.5	0	61		0.65	2.5	0
	BE	BERYLLIUM	MG/KG	0.21	J / T	0.2	1.5	0	0.43	J / T	0.2	1.5	0
	CD	CADMIUM	MG/KG	0.3	U	0.3	2.5	0	0.3	U	0.3	2.5	0
	CO	COBALT	MG/KG	3.2		0.4	2.5	0	3.7		0.4	2.5	0
	CR	CHROMIUM, TO	MG/KG	2.3	J / T	1.7	5	0	3.6	J / T	1.8	5	0
	CU	COPPER	MG/KG	9.6		1.9	5	0	14		1.9	5	0
	MO	MOLYBDENUM	MG/KG	0.4	U	0.4	5	0	0.4	U	0.4	5	0
	NI	NICKEL	MG/KG	3.5	J / T	2.2	5	0	4.1	J / T	2.3	5	0
	PB	LEAD	MG/KG	5.6		0.25	2.5	0	5.1		0.25	2.5	0
	SE	SELENIUM	MG/KG	0.75	U	0.75	5	0	0.75	U	0.75	5	0
	TL	THALLIUM	MG/KG	0.4	U	0.4	2.5	0	0.4	U	0.4	2.5	0
	V	VANADIUM	MG/KG	17		1.7	5	0	21		1.8	5	0
	ZN	ZINC	MG/KG	15	J / T	6.5	50	0	23	J / T	6.5	50	0
SW7471A	HG	MERCURY	MG/KG	0.012	U	0.012	0.02	0	0.012	U	0.012	0.02	0

			Lab Sample	IQH1759-07					IQH1759-08				
			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**
SW6010B	AL	ALUMINUM	MG/KG	14000		5	10	0	15000		5	10	0
	B	BORON	MG/KG	9.9		2.1	5	0	35		2.1	5	0
	CA	CALCIUM	MG/KG	3500		6.2	15	0	24000		6.3	15	0
	FE	IRON	MG/KG	15000		1.5	5	0	17000		1.5	5	0
	K	POTASSIUM	MG/KG	2800		19	50	0	2200		19	50	0
	MG	MAGNESIUM	MG/KG	4500		1	10	0	6200		1	10	0
	MN	MANGANESE	MG/KG	300		0.8	1	0	380		0.8	1	0
	NA	SODIUM	MG/KG	1000	J / 4H	24	50	0	2500	J / 4H	24	50	0
	SB	ANTIMONY	MG/KG	0.88	U	0.88	10	0	0.88	U	0.88	10	0
SW6020	AG	SILVER	MG/KG	0.5	U	0.5	2.5	0	0.5	U	0.5	2.5	0
	AS	ARSENIC	MG/KG	1.8	UJ / 9L	1.8	2.5	0	5.2	J / 9L	1.8	2.5	0
	BA	BARIUM	MG/KG	62		0.65	2.5	0	170		0.65	2.5	0
	BE	BERYLLIUM	MG/KG	0.56	J / T	0.2	1.5	0	0.59	J / T	0.2	1.5	0
	CD	CADMIUM	MG/KG	0.3	U	0.3	2.5	0	0.3	U	0.3	2.5	0
	CO	COBALT	MG/KG	4.1		0.4	2.5	0	6.3		0.4	2.5	0
	CR	CHROMIUM, TO	MG/KG	5.6		1.8	5	0	7.6		1.8	5	0
	CU	COPPER	MG/KG	15		1.9	5	0	24		1.9	5	0
	MO	MOLYBDENUM	MG/KG	0.4	U	0.4	5	0	0.94	J / T	0.4	5	0
	NI	NICKEL	MG/KG	5.2		2.2	5	0	8.3		2.3	5	0
	PB	LEAD	MG/KG	5.9		0.25	2.5	0	7.3		0.25	2.5	0
	SE	SELENIUM	MG/KG	0.75	U	0.75	5	0	0.75	U	0.75	5	0
	TL	THALLIUM	MG/KG	0.4	U	0.4	2.5	0	0.4	U	0.4	2.5	0
	V	VANADIUM	MG/KG	25		1.8	5	0	33		1.8	5	0
	ZN	ZINC	MG/KG	30	J / T	6.5	50	0	39	J / T	6.5	50	0
SW7471A	HG	MERCURY	MG/KG	0.012	U	0.012	0.02	0	0.012	U	0.012	0.02	0

			Lab Sample	IQH1759-09					IQH1759-10				
			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**
SW6010B	AL	ALUMINUM	MG/KG	11000		5	10	0	9700		5	10	0
	B	BORON	MG/KG	8		2.1	5	0	7.5	UJ / 7	7.5	7.9	0
	CA	CALCIUM	MG/KG	19000		6.2	15	0	9500		6.2	15	0
	FE	IRON	MG/KG	16000		1.5	5	0	13000		1.5	5	0
	K	POTASSIUM	MG/KG	2500		19	50	0	1100		19	50	0
	MG	MAGNESIUM	MG/KG	5500		1	10	0	4300		1	10	0
	MN	MANGANESE	MG/KG	240		0.8	1	0	150		0.8	1	0
	NA	SODIUM	MG/KG	300	J / 4H	24	50	0	970	J / 4H	24	50	0
	SB	ANTIMONY	MG/KG	0.88	U	0.88	10	0	0.88	U	0.88	10	0
SW6020	AG	SILVER	MG/KG	0.5	U	0.5	2.5	0	0.5	U	0.5	2.5	0
	AS	ARSENIC	MG/KG	3.3	J / 9L	1.7	2.5	0	2.4	J / T,9L	1.7	2.5	0
	BA	BARIUM	MG/KG	90		0.65	2.5	0	52		0.65	2.5	0
	BE	BERYLLIUM	MG/KG	0.37	J / T	0.2	1.5	0	0.34	J / T	0.2	1.5	0
	CD	CADMIUM	MG/KG	0.3	U	0.3	2.5	0	0.3	U	0.3	2.5	0
	CO	COBALT	MG/KG	5.4		0.4	2.5	0	4.5		0.4	2.5	0
	CR	CHROMIUM, TO	MG/KG	5.6		1.7	5	0	6.8		1.7	5	0
	CU	COPPER	MG/KG	89		1.9	5	0	110		1.9	5	0
	MO	MOLYBDENUM	MG/KG	1.3	J / T	0.4	5	0	0.4	J / T	0.4	5	0
	NI	NICKEL	MG/KG	7.2		2.2	5	0	6.8		2.2	5	0
	PB	LEAD	MG/KG	5.7		0.25	2.5	0	3.7		0.25	2.5	0
	SE	SELENIUM	MG/KG	0.75	U	0.75	5	0	0.75	U	0.75	5	0
	TL	THALLIUM	MG/KG	0.4	U	0.4	2.5	0	0.4	U	0.4	2.5	0
	V	VANADIUM	MG/KG	24		1.7	5	0	24		1.7	5	0
	ZN	ZINC	MG/KG	25	J / T	6.5	50	0	19	J / T	6.5	50	0
SW7471A	HG	MERCURY	MG/KG	0.012	U	0.012	0.02	0	0.012	U	0.012	0.02	0

			Lab Sample	IQH1759-11					IQH1759-12				
			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**
SW6010B	AL	ALUMINUM	MG/KG	15000		5	10	0	14000		5	10	0
	B	BORON	MG/KG	9.7		2.1	5	0	10		2.1	5	0
	CA	CALCIUM	MG/KG	5200		6.2	15	0	11000		6.2	15	0
	FE	IRON	MG/KG	19000		1.5	5	0	18000		1.5	5	0
	K	POTASSIUM	MG/KG	3700		19	50	0	2200		19	50	0
	MG	MAGNESIUM	MG/KG	5100		1	10	0	4700		1	10	0
	MN	MANGANESE	MG/KG	520		0.8	1	0	420		0.8	1	0
	NA	SODIUM	MG/KG	350	J / 4H	24	50	0	620	J / 4H	24	50	0
	SB	ANTIMONY	MG/KG	0.88	U	0.88	10	0	0.88	U	0.88	10	0
SW6020	AG	SILVER	MG/KG	0.5	U	0.5	2.5	0	0.5	U	0.5	2.5	0
	AS	ARSENIC	MG/KG	2.4	J / T,9L	1.8	2.5	0	6.9	J / 9L	1.8	2.5	0
	BA	BARIUM	MG/KG	150		0.65	2.5	0	150		0.65	2.5	0
	BE	BERYLLIUM	MG/KG	0.56	J / T	0.2	1.5	0	0.63	J / T	0.2	1.5	0
	CD	CADMIUM	MG/KG	0.3	U	0.3	2.5	0	0.3	U	0.3	2.5	0
	CO	COBALT	MG/KG	5.9		0.4	2.5	0	5.8		0.4	2.5	0
	CR	CHROMIUM, TO	MG/KG	5.8		1.8	5	0	3.1	J / T	1.8	5	0
	CU	COPPER	MG/KG	17		1.9	5	0	14		1.9	5	0
	MO	MOLYBDENUM	MG/KG	0.4	U	0.4	5	0	0.4	U	0.4	5	0
	NI	NICKEL	MG/KG	4.7	J / T	2.3	5	0	3.9	J / T	2.2	5	0
	PB	LEAD	MG/KG	6.4		0.25	2.5	0	5.7		0.25	2.5	0
	SE	SELENIUM	MG/KG	0.75	U	0.75	5	0	0.75	U	0.75	5	0
	TL	THALLIUM	MG/KG	0.4	U	0.4	2.5	0	0.4	U	0.4	2.5	0
	V	VANADIUM	MG/KG	32		1.8	5	0	29		1.8	5	0
	ZN	ZINC	MG/KG	43	J / T	6.5	50	0	34	J / T	6.5	50	0
SW7471A	HG	MERCURY	MG/KG	0.012	U	0.012	0.02	0	0.012	U	0.012	0.02	0

			Lab Sample	IQH1759-13					IQH1759-14				
			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**
SW6010B	AL	ALUMINUM	MG/KG	11000		5	10	0	11000		5	10	0
	B	BORON	MG/KG	6.7	UJ / 7	6.7	7.9	0	8.3		2.1	5	0
	CA	CALCIUM	MG/KG	23000		6.2	15	0	15000		6.2	15	0
	FE	IRON	MG/KG	13000		1.5	5	0	14000		1.5	5	0
	K	POTASSIUM	MG/KG	1300		19	50	0	1300		19	50	0
	MG	MAGNESIUM	MG/KG	4500		1	10	0	4600		1	10	0
	MN	MANGANESE	MG/KG	180		0.8	1	0	250		0.8	1	0
	NA	SODIUM	MG/KG	250	J / 4H	24	50	0	330	J / 4H	24	50	0
	SB	ANTIMONY	MG/KG	0.88	U	0.88	10	0	0.88	U	0.88	10	0
SW6020	AG	SILVER	MG/KG	0.5	U	0.5	2.5	0	0.5	U	0.5	2.5	0
	AS	ARSENIC	MG/KG	6.6	J / 9L	1.7	2.5	0	9.7	J / 9L	1.7	2.5	0
	BA	BARIUM	MG/KG	160		0.65	2.5	0	100		0.65	2.5	0
	BE	BERYLLIUM	MG/KG	0.5	J / T	0.2	1.5	0	0.35	J / T	0.2	1.5	0
	CD	CADMIUM	MG/KG	0.3	U	0.3	2.5	0	0.3	U	0.3	2.5	0
	CO	COBALT	MG/KG	5.1		0.4	2.5	0	4.4		0.4	2.5	0
	CR	CHROMIUM, TO	MG/KG	5.1		1.7	5	0	5.5		1.7	5	0
	CU	COPPER	MG/KG	70		1.9	5	0	85		1.9	5	0
	MO	MOLYBDENUM	MG/KG	0.4	U	0.4	5	0	0.4	U	0.4	5	0
	NI	NICKEL	MG/KG	7		2.2	5	0	6.5		2.2	5	0
	PB	LEAD	MG/KG	4.3		0.25	2.5	0	4		0.25	2.5	0
	SE	SELENIUM	MG/KG	0.75	U	0.75	5	0	0.75	U	0.75	5	0
	TL	THALLIUM	MG/KG	0.4	U	0.4	2.5	0	0.4	U	0.4	2.5	0
	V	VANADIUM	MG/KG	24		1.7	5	0	29		1.7	5	0
	ZN	ZINC	MG/KG	27	J / T	6.5	50	0	24	J / T	6.5	50	0
SW7471A	HG	MERCURY	MG/KG	0.012	U	0.012	0.02	0	0.012	U	0.012	0.02	0

			Lab Sample	IQH1759-15					IQH1759-16				
			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**
SW6010B	AL	ALUMINUM	MG/KG	8300		5	10	0	6800		5	10	0
	B	BORON	MG/KG	5.4	UJ / 7	5.4	7.9	0	5.6	UJ / 7	5.6	7.9	0
	CA	CALCIUM	MG/KG	13000		6.3	15	0	5700		6.2	15	0
	FE	IRON	MG/KG	12000		1.5	5	0	12000		1.5	5	0
	K	POTASSIUM	MG/KG	1000		19	50	0	770		19	50	0
	MG	MAGNESIUM	MG/KG	4900		1	10	0	3400		1	10	0
	MN	MANGANESE	MG/KG	130		0.8	1	0	130	J / 8	0.8	1	0
	NA	SODIUM	MG/KG	180	UJ / 2	180	230	0	520	J / 4H	24	50	0
	SB	ANTIMONY	MG/KG	0.88	U	0.88	10	0	0.88	U	0.88	10	0
SW6020	AG	SILVER	MG/KG	0.5	U	0.5	2.5	0	0.5	U	0.5	2.5	0
	AS	ARSENIC	MG/KG	6.7	J / 9L	1.7	2.5	0	4.4	J / 9L	1.8	2.5	0
	BA	BARIUM	MG/KG	110		0.65	2.5	0	60		0.65	2.5	0
	BE	BERYLLIUM	MG/KG	0.59	J / T	0.2	1.5	0	0.27	J / T	0.2	1.5	0
	CD	CADMIUM	MG/KG	0.3	U	0.3	2.5	0	0.3	U	0.3	2.5	0
	CO	COBALT	MG/KG	7.2		0.4	2.5	0	4.1		0.4	2.5	0
	CR	CHROMIUM, TO	MG/KG	10		1.7	5	0	3.9	J / T	1.8	5	0
	CU	COPPER	MG/KG	130		1.9	5	0	63	J / 8	1.9	5	0
	MO	MOLYBDENUM	MG/KG	0.4	U	0.4	5	0	0.4	U	0.4	5	0
	NI	NICKEL	MG/KG	12		2.2	5	0	5.6		2.3	5	0
	PB	LEAD	MG/KG	5.2		0.25	2.5	0	3.2		0.25	2.5	0
	SE	SELENIUM	MG/KG	0.75	U	0.75	5	0	0.75	U	0.75	5	0
	TL	THALLIUM	MG/KG	0.4	U	0.4	2.5	0	0.4	U	0.4	2.5	0
	V	VANADIUM	MG/KG	30		1.7	5	0	21		1.8	5	0
	ZN	ZINC	MG/KG	33	J / T	6.5	50	0	18	J / T	6.5	50	0
SW7471A	HG	MERCURY	MG/KG	0.012	U	0.012	0.02	0	0.012	U	0.012	0.02	0

			Lab Sample	IQH1759-17					IQH1759-19				
			Field Sample	BGS-A2-51D-2					BGS-A2-53S				
			Collect Date	8/14/2007 3:00:00 PM					8/15/2007 12:30:00 PM				
			Type	FD					N				
			Parent	BGS-A2-51D-1									
Method	**CAS Number**	**Chemical Name**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
SW6010B	AL	ALUMINUM	MG/KG	6500		5	10	0	16000		5	10	0
	B	BORON	MG/KG	3.4	UJ / 7	3.4	7.9	0	9.1		2.1	5	0
	CA	CALCIUM	MG/KG	6600		6.2	15	0	9100		6.2	15	0
	FE	IRON	MG/KG	9400		1.5	5	0	16000		1.5	5	0
	K	POTASSIUM	MG/KG	830		19	50	0	2400		19	50	0
	MG	MAGNESIUM	MG/KG	3100		1	10	0	4500		1	10	0
	MN	MANGANESE	MG/KG	240	J / 8	0.8	1	0	490		0.8	1	0
	NA	SODIUM	MG/KG	550	J / 4H	24	50	0	830	J / 4H	24	50	0
	SB	ANTIMONY	MG/KG	0.88	U	0.88	10	0	0.88	U	0.88	10	0
SW6020	AG	SILVER	MG/KG	0.5	U	0.5	2.5	0	0.5	U	0.5	2.5	0
	AS	ARSENIC	MG/KG	3.3	J / 4L	1.7	2.5	0	3.4	J / 4L	1.8	2.5	0
	BA	BARIUM	MG/KG	89	J / 4L	0.65	2.5	0	120	J / 4L	0.65	2.5	0
	BE	BERYLLIUM	MG/KG	0.33	J / T	0.2	1.5	0	0.79	J / T	0.2	1.5	0
	CD	CADMIUM	MG/KG	0.3	U	0.3	2.5	0	0.3	U	0.3	2.5	0
	CO	COBALT	MG/KG	5.4		0.4	2.5	0	4.9		0.4	2.5	0
	CR	CHROMIUM, TO	MG/KG	6.2	J / 4L	1.7	5	0	5	J / T,4L	1.8	5	0
	CU	COPPER	MG/KG	130	J / 4L,8	1.9	5	0	17	J / 4L	1.9	5	0
	MO	MOLYBDENUM	MG/KG	0.74	J / T,4L	0.4	5	0	0.55	J / T,4L	0.4	5	0
	NI	NICKEL	MG/KG	6.7		2.2	5	0	5.2		2.2	5	0
	PB	LEAD	MG/KG	3.7		0.25	2.5	0	7.6		0.25	2.5	0
	SE	SELENIUM	MG/KG	0.75	UJ / 4L	0.75	5	0	0.75	UJ / 4L	0.75	5	0
	TL	THALLIUM	MG/KG	0.4	U	0.4	2.5	0	0.4	U	0.4	2.5	0
	V	VANADIUM	MG/KG	31	J / 4L	1.7	5	0	24	J / 4L	1.8	5	0
	ZN	ZINC	MG/KG	22	UJ / 2	22	63	0	43	UJ / 2	43	63	0
SW7471A	HG	MERCURY	MG/KG	0.012	U	0.012	0.02	0	0.012	U	0.012	0.02	0

			Lab Sample	IQH1759-20					IQH1759-25				
			Field Sample	BGS-A2-53D					BGS-A2-56S				
			Collect Date	8/15/2007 12:30:00 PM					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**
SW6010B	AL	ALUMINUM	MG/KG	13000		5	10	0	12000		5	9.9	0
	B	BORON	MG/KG	7		2.1	5	0	6.3	UJ / 7	6.3	7.9	0
	CA	CALCIUM	MG/KG	15000		6.2	15	0	2900		6.2	15	0
	FE	IRON	MG/KG	14000		1.5	5	0	16000		1.5	5	0
	K	POTASSIUM	MG/KG	1300		19	50	0	3000		19	50	0
	MG	MAGNESIUM	MG/KG	3400		1	10	0	3900		0.99	9.9	0
	MN	MANGANESE	MG/KG	410		0.8	1	0	300	J / 4H	0.79	0.99	0
	NA	SODIUM	MG/KG	230	UJ / 2	230	230	0	320		24	50	0
	SB	ANTIMONY	MG/KG	0.88	U	0.88	10	0	0.87	UJ / 4L	0.87	9.9	0
SW6020	AG	SILVER	MG/KG	0.5	U	0.5	2.5	0	0.5	U	0.5	2.5	0
	AS	ARSENIC	MG/KG	5.8	J / 4L	1.7	2.5	0	2.3	J / T,4L	1.8	2.5	0
	BA	BARIUM	MG/KG	81	J / 4L	0.65	2.5	0	72	J / 4L	0.65	2.5	0
	BE	BERYLLIUM	MG/KG	0.74	J / T	0.2	1.5	0	0.47	J / T	0.2	1.5	0
	CD	CADMIUM	MG/KG	0.3	U	0.3	2.5	0	0.3	U	0.3	2.5	0
	CO	COBALT	MG/KG	6.1		0.4	2.5	0	7.6		0.4	2.5	0
	CR	CHROMIUM, TO	MG/KG	3.3	J / T,4L	1.7	5	0	9.2	J / 4L	1.8	5	0
	CU	COPPER	MG/KG	20	J / 4L	1.9	5	0	27	J / 4L	1.9	5	0
	MO	MOLYBDENUM	MG/KG	0.45	J / T,4L	0.4	5	0	0.41	J / T,4L	0.4	5	0
	NI	NICKEL	MG/KG	6.3		2.2	5	0	8.7		2.2	5	0
	PB	LEAD	MG/KG	6		0.25	2.5	0	6.3		0.25	2.5	0
	SE	SELENIUM	MG/KG	0.75	UJ / 4L	0.75	5	0	0.75	UJ / 4L	0.75	5	0
	TL	THALLIUM	MG/KG	0.4	U	0.4	2.5	0	0.4	U	0.4	2.5	0
	V	VANADIUM	MG/KG	24	J / 4L	1.7	5	0	37	J / 4L	1.8	5	0
	ZN	ZINC	MG/KG	33	UJ / 2	33	63	0	36	UJ / 2	36	63	0
SW7471A	HG	MERCURY	MG/KG	0.012	U	0.012	0.02	0	0.012	U	0.012	0.02	0

			Lab Sample	IQH1759-26					IQH1759-27				
			Field Sample	BGS-A2-56D					BGS-A2-57S				
			Collect Date	8/14/2007 10:45:00 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**
SW6010B	AL	ALUMINUM	MG/KG	9700		5	10	0	9000		5	10	0
	B	BORON	MG/KG	4.7	UJ / 7	4.7	7.9	0	3.9	UJ / 7	3.9	7.9	0
	CA	CALCIUM	MG/KG	13000		6.2	15	0	4600		6.2	15	0
	FE	IRON	MG/KG	15000		1.5	5	0	14000		1.5	5	0
	K	POTASSIUM	MG/KG	1700		19	50	0	2600		19	50	0
	MG	MAGNESIUM	MG/KG	5900		1	10	0	4200		1	10	0
	MN	MANGANESE	MG/KG	240	J / 4H	0.8	1	0	200	J / 4H	0.8	1	0
	NA	SODIUM	MG/KG	620		24	50	0	140		24	50	0
	SB	ANTIMONY	MG/KG	0.88	UJ / 4L	0.88	10	0	0.88	UJ / 4L	0.88	10	0
SW6020	AG	SILVER	MG/KG	0.5	U	0.5	2.5	0	0.5	U	0.5	2.5	0
	AS	ARSENIC	MG/KG	3.2	J / 4L	1.8	2.5	0	1.7	UJ / 4L	1.7	2.5	0
	BA	BARIUM	MG/KG	99	J / 4L	0.65	2.5	0	70	J / 4L	0.65	2.5	0
	BE	BERYLLIUM	MG/KG	0.3	J / T	0.2	1.5	0	0.32	J / T	0.2	1.5	0
	CD	CADMIUM	MG/KG	0.3	U	0.3	2.5	0	0.3	U	0.3	2.5	0
	CO	COBALT	MG/KG	8.5		0.4	2.5	0	6.5		0.4	2.5	0
	CR	CHROMIUM, TO	MG/KG	18	J / 4L	1.8	5	0	11	J / 4L	1.7	5	0
	CU	COPPER	MG/KG	31	J / 4L	1.9	5	0	38	J / 4L	1.9	5	0
	MO	MOLYBDENUM	MG/KG	0.4	UJ / 4L	0.4	5	0	0.42	J / T,4L	0.4	5	0
	NI	NICKEL	MG/KG	16		2.2	5	0	9.3		2.2	5	0
	PB	LEAD	MG/KG	3.6		0.25	2.5	0	4.4		0.25	2.5	0
	SE	SELENIUM	MG/KG	0.75	UJ / 4L	0.75	5	0	0.75	UJ / 4L	0.75	5	0
	TL	THALLIUM	MG/KG	0.4	U	0.4	2.5	0	0.4	U	0.4	2.5	0
	V	VANADIUM	MG/KG	42	J / 4L	1.8	5	0	38	J / 4L	1.7	5	0
	ZN	ZINC	MG/KG	32	UJ / 2	32	63	0	27	UJ / 2	27	63	0
SW7471A	HG	MERCURY	MG/KG	0.012	U	0.012	0.02	0	0.012	U	0.012	0.02	0

			Lab Sample	IQH1759-28					IQH1759-29				
			Field Sample	BGS-A2-57D					BGS-A2-58S				
			Collect Date	8/14/2007 9:15:00 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**
SW6010B	AL	ALUMINUM	MG/KG	10000		5	9.9	0	11000		5	9.9	0
	B	BORON	MG/KG	7.6	UJ / 7	7.6	7.9	0	6.4	UJ / 7	6.4	7.9	0
	CA	CALCIUM	MG/KG	37000		6.2	15	0	3400		6.2	15	0
	FE	IRON	MG/KG	14000		1.5	5	0	15000		1.5	5	0
	K	POTASSIUM	MG/KG	1600		19	50	0	1800		19	50	0
	MG	MAGNESIUM	MG/KG	6000		0.99	9.9	0	3900		0.99	9.9	0
	MN	MANGANESE	MG/KG	190	J / 4H	0.79	0.99	0	240	J / 4H	0.79	0.99	0
	NA	SODIUM	MG/KG	360		24	50	0	1100		24	50	0
	SB	ANTIMONY	MG/KG	0.87	UJ / 4L	0.87	9.9	0	0.87	UJ / 4L	0.87	9.9	0
SW6020	AG	SILVER	MG/KG	0.5	U	0.5	2.5	0	0.5	U	0.5	2.5	0
	AS	ARSENIC	MG/KG	7.7	J / 4L	1.7	2.5	0	2.4	J / T,4L	1.8	2.5	0
	BA	BARIUM	MG/KG	150	J / 4L	0.65	2.5	0	60	J / 4L	0.65	2.5	0
	BE	BERYLLIUM	MG/KG	0.38	J / T	0.2	1.5	0	0.38	J / T	0.2	1.5	0
	CD	CADMIUM	MG/KG	0.3	U	0.3	2.5	0	0.3	U	0.3	2.5	0
	CO	COBALT	MG/KG	7.8		0.4	2.5	0	6.2		0.4	2.5	0
	CR	CHROMIUM, TO	MG/KG	15	J / 4L	1.7	5	0	9.4	J / 4L	1.8	5	0
	CU	COPPER	MG/KG	52	J / 4L	1.9	5	0	30	J / 4L	1.9	5	0
	MO	MOLYBDENUM	MG/KG	0.4	UJ / 4L	0.4	5	0	0.46	J / T,4L	0.4	5	0
	NI	NICKEL	MG/KG	14		2.2	5	0	8.6		2.2	5	0
	PB	LEAD	MG/KG	4.3		0.25	2.5	0	5.6		0.25	2.5	0
	SE	SELENIUM	MG/KG	0.75	UJ / 4L	0.75	5	0	0.75	UJ / 4L	0.75	5	0
	TL	THALLIUM	MG/KG	0.4	U	0.4	2.5	0	0.45	J / T	0.4	2.5	0
	V	VANADIUM	MG/KG	39	J / 4L	1.7	5	0	35	J / 4L	1.8	5	0
	ZN	ZINC	MG/KG	29	UJ / 2	29	63	0	30	UJ / 2	30	63	0
SW7471A	HG	MERCURY	MG/KG	0.012	U	0.012	0.02	0	0.012	U	0.012	0.02	0

			Lab Sample	IQH1759-30					IQH1759-31				
			Field Sample	BGS-A2-58D					BGS-A2-59S				
			Collect Date	8/14/2007 8:30:00 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**
SW6010B	AL	ALUMINUM	MG/KG	7500		5	9.9	0	6800		5	10	0
	B	BORON	MG/KG	6.4	UJ / 7	6.4	7.9	0	2.1	U	2.1	5	0
	CA	CALCIUM	MG/KG	8100		6.2	15	0	2800		6.2	15	0
	FE	IRON	MG/KG	13000		1.5	5	0	11000		1.5	5	0
	K	POTASSIUM	MG/KG	1200		19	50	0	1800		19	50	0
	MG	MAGNESIUM	MG/KG	3400		0.99	9.9	0	3300		1	10	0
	MN	MANGANESE	MG/KG	170	J / 4H	0.79	0.99	0	180	J / 4H	0.8	1	0
	NA	SODIUM	MG/KG	800		24	50	0	92		24	50	0
	SB	ANTIMONY	MG/KG	0.87	UJ / 4L	0.87	9.9	0	0.88	UJ / 4L	0.88	10	0
SW6020	AG	SILVER	MG/KG	0.5	U	0.5	2.5	0	0.5	U	0.5	2.5	0
	AS	ARSENIC	MG/KG	4.1	J / 4L	1.8	2.5	0	1.8	UJ / 4L	1.8	2.5	0
	BA	BARIUM	MG/KG	75	J / 4L	0.65	2.5	0	61	J / 4L	0.65	2.5	0
	BE	BERYLLIUM	MG/KG	0.23	J / T	0.2	1.5	0	0.36	J / T	0.2	1.5	0
	CD	CADMIUM	MG/KG	0.3	U	0.3	2.5	0	0.3	U	0.3	2.5	0
	CO	COBALT	MG/KG	4.6		0.4	2.5	0	6.3		0.4	2.5	0
	CR	CHROMIUM, TO	MG/KG	6	J / 4L	1.8	5	0	6.8	J / 4L	1.8	5	0
	CU	COPPER	MG/KG	21	J / 4L	1.9	5	0	42	J / 4L	1.9	5	0
	MO	MOLYBDENUM	MG/KG	0.55	J / T,4L	0.4	5	0	0.4	UJ / 4L	0.4	5	0
	NI	NICKEL	MG/KG	6.6		2.2	5	0	8		2.2	5	0
	PB	LEAD	MG/KG	3.6		0.25	2.5	0	4.4		0.25	2.5	0
	SE	SELENIUM	MG/KG	0.75	UJ / 4L	0.75	5	0	0.75	UJ / 4L	0.75	5	0
	TL	THALLIUM	MG/KG	0.4	U	0.4	2.5	0	0.4	U	0.4	2.5	0
	V	VANADIUM	MG/KG	32	J / 4L	1.8	5	0	38	J / 4L	1.8	5	0
	ZN	ZINC	MG/KG	29	UJ / 2	29	63	0	27	UJ / 2	27	63	0
SW7471A	HG	MERCURY	MG/KG	0.012	U	0.012	0.02	0	0.012	U	0.012	0.02	0

			Lab Sample	IQH1759-32					IQH1759-33				
			Field Sample	BGS-A2-59D					BGS-A2-60S				
			Collect Date	8/14/2007 8:00:00 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**
SW6010B	AL	ALUMINUM	MG/KG	5000		5	10	0	7600		5	9.9	0
	B	BORON	MG/KG	2.1	U	2.1	5	0	3.4	UJ / 7	3.4	7.9	0
	CA	CALCIUM	MG/KG	7700		6.2	15	0	3700		6.2	15	0
	FE	IRON	MG/KG	12000		1.5	5	0	13000		1.5	5	0
	K	POTASSIUM	MG/KG	900		19	50	0	1900		19	50	0
	MG	MAGNESIUM	MG/KG	3000		1	10	0	3400		0.99	9.9	0
	MN	MANGANESE	MG/KG	140	J / 4H	0.8	1	0	180	J / 4H	0.79	0.99	0
	NA	SODIUM	MG/KG	96		24	50	0	220		24	50	0
	SB	ANTIMONY	MG/KG	0.88	UJ / 4L	0.88	10	0	0.87	UJ / 4L	0.87	9.9	0
SW6020	AG	SILVER	MG/KG	0.5	U	0.5	2.5	0	0.5	U	0.5	2.5	0
	AS	ARSENIC	MG/KG	1.8	UJ / 4L	1.8	2.5	0	2.2	J / T,4L	1.8	2.5	0
	BA	BARIUM	MG/KG	40	UJ / 7	40	42.5	0	89	J / 4L	0.65	2.5	0
	BE	BERYLLIUM	MG/KG	0.2	U	0.2	1.5	0	0.38	J / T	0.2	1.5	0
	CD	CADMIUM	MG/KG	0.3	U	0.3	2.5	0	0.3	U	0.3	2.5	0
	CO	COBALT	MG/KG	4.2		0.4	2.5	0	6.7		0.4	2.5	0
	CR	CHROMIUM, TO	MG/KG	3.3	J / T,4L	1.8	5	0	9.7	J / 4L	1.8	5	0
	CU	COPPER	MG/KG	34	J / 4L	1.9	5	0	35	J / 4L	1.9	5	0
	MO	MOLYBDENUM	MG/KG	0.4	UJ / 4L	0.4	5	0	0.4	UJ / 4L	0.4	5	0
	NI	NICKEL	MG/KG	5.4		2.2	5	0	9.3		2.2	5	0
	PB	LEAD	MG/KG	2.6		0.25	2.5	0	4.8		0.25	2.5	0
	SE	SELENIUM	MG/KG	0.75	UJ / 4L	0.75	5	0	0.75	UJ / 4L	0.75	5	0
	TL	THALLIUM	MG/KG	0.4	U	0.4	2.5	0	0.4	U	0.4	2.5	0
	V	VANADIUM	MG/KG	35	J / 4L	1.8	5	0	36	J / 4L	1.8	5	0
	ZN	ZINC	MG/KG	17	UJ / 2	17	63	0	32	UJ / 2	32	63	0
SW7471A	HG	MERCURY	MG/KG	0.012	U	0.012	0.02	0	0.012	U	0.012	0.02	0

Lab Sample	IQH1759-34
Field Sample	BGS-A2-60D
Collect Date	8/14/2007 10:15:00 AM
Type	N
Parent	

Method	CAS Number	Chemical Name	Units	Result	Qual / Reason	MDL	RDL	Uncert
SW6010B	AL	ALUMINUM	MG/KG	9900		5	10	0
	B	BORON	MG/KG	5.1	UJ / 7	5.1	7.9	0
	CA	CALCIUM	MG/KG	16000		6.2	15	0
	FE	IRON	MG/KG	17000		1.5	5	0
	K	POTASSIUM	MG/KG	1600		19	50	0
	MG	MAGNESIUM	MG/KG	4800		1	10	0
	MN	MANGANESE	MG/KG	180	J / 4H	0.8	1	0
	NA	SODIUM	MG/KG	180		24	50	0
	SB	ANTIMONY	MG/KG	0.88	UJ / 4L	0.88	10	0
SW6020	AG	SILVER	MG/KG	0.5	U	0.5	2.5	0
	AS	ARSENIC	MG/KG	4.4	J / 4L	1.8	2.5	0
	BA	BARIUM	MG/KG	81	J / 4L	0.65	2.5	0
	BE	BERYLLIUM	MG/KG	0.36	J / T	0.2	1.5	0
	CD	CADMIUM	MG/KG	0.3	U	0.3	2.5	0
	CO	COBALT	MG/KG	5.6		0.4	2.5	0
	CR	CHROMIUM, TO	MG/KG	8.5	J / 4L	1.8	5	0
	CU	COPPER	MG/KG	32	J / 4L	1.9	5	0
	MO	MOLYBDENUM	MG/KG	0.4	UJ / 4L	0.4	5	0
	NI	NICKEL	MG/KG	8.3		2.2	5	0
	PB	LEAD	MG/KG	3.6		0.25	2.5	0
	SE	SELENIUM	MG/KG	0.75	UJ / 4L	0.75	5	0
	TL	THALLIUM	MG/KG	0.4	U	0.4	2.5	0
	V	VANADIUM	MG/KG	38	J / 4L	1.8	5	0
	ZN	ZINC	MG/KG	25	UJ / 2	25	63	0
SW7471A	HG	MERCURY	MG/KG	0.012	U	0.012	0.02	0

Arco - Yerington
SDG: IQH1759

Lab Sample	IQH1759-18
Field Sample	BGS-A2-51E
Collect Date	8/14/2007 3:00:00 PM
Type	EB
Parent	

Method	CAS Number	Chemical Name	Units	Result	Qual / Reason	MDL	RDL	Uncert
SW6010B	AL	ALUMINUM	MG/L	0.2		0.04	0.05	0
	B	BORON	MG/L	0.063		0.02	0.05	0
	CA	CALCIUM	MG/L	0.2		0.05	0.1	0
	FE	IRON	MG/L	0.3		0.015	0.04	0
	K	POTASSIUM	MG/L	0.37	U	0.37	0.5	0
	MG	MAGNESIUM	MG/L	0.19		0.012	0.02	0
	MN	MANGANESE	MG/L	0.036		0.007	0.02	0
	NA	SODIUM	MG/L	0.19	U	0.19	0.5	0
	SB	ANTIMONY	MG/L	0.007	U	0.007	0.01	0
SW6020	AG	SILVER	UG/L	0.2	U	0.2	1	0
	AS	ARSENIC	UG/L	0.7	U	0.7	1	0
	BA	BARIUM	UG/L	3.4		0.25	1	0
	BE	BERYLLIUM	UG/L	0.075	U	0.075	0.5	0
	CD	CADMIUM	UG/L	0.11	U	0.11	1	0
	CO	COBALT	UG/L	0.15	U	0.15	1	0
	CR	CHROMIUM, TO	UG/L	0.7	U	0.7	2	0
	CU	COPPER	UG/L	0.75	J / T	0.75	2	0
	MO	MOLYBDENUM	UG/L	0.15	U	0.15	2	0
	NI	NICKEL	UG/L	0.9	U	0.9	2	0
	PB	LEAD	UG/L	0.1	U	0.1	1	0
	SE	SELENIUM	UG/L	0.3	U	0.3	2	0
	TL	THALLIUM	UG/L	0.15	U	0.15	1	0
	V	VANADIUM	UG/L	0.7	U	0.7	2	0
	ZN	ZINC	UG/L	2.5	U	2.5	20	0
SW7471A	HG	MERCURY	MG/L	0.0001	U	0.0001	0.0002	0

8.0 SUPPORTING DOCUMENTATION

Inorganic Analyses Support Documentation

Environmental Standards Project Name: Arco- Yerington
Sample Collection Dates: 8/14-15/07
Job Number: 20074048
Project Manager: Dina
Laboratory: Test America

Reviewed By: THW
Approved By: WW
Completion Date: 10/23/07

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

Deliverables:		Sample No.	Lab. Control No.
CLP	☑	IQH1795	
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/Kg	QUALIFICATION LIMIT FOR AQUEOUS SAMPLES (ug/L) 5x	QUALIFICATION LIMIT FOR SOLID SAMPLES (mg/Kg) 5x	
S			✓				7H20140-BLK1	calcium		12.2	61 →		
								magnesium		2.09		10.4	
								potassium		36.6		183	
								sodium		46.1		230	
			✓				7H21073-BLK1	calcium		12.6		63	
								magnesium		1.41		7	
			✓				7H21075-BLK1	aluminum		5.12		25.6	
								calcium		27		135	
								iron		10.7		53.5	
								magnesium		2.1		10.5	
			✓				7H24146-BLK1	chromium		0.59		2.95	
			✓				7H27111-BLK1	calcium	mg/L	0.174		~~0.87~~	4.35
			✓				7H28132-BLK1	zinc		2.52		12.6	
				✓			BGS-A2-51E	aluminum	mg/L	0.2		5	
								boron		0.063		~~1.58~~	7.9
								calcium		0.2		5	
								iron		0.3		7.5	
								magnesium		0.19		4.75	
								manganese		0.036		0.9	
								barium	mg/L	3.4		~~17~~	8.5
								copper		0.75		0.375	
					✓		BGS-A2-67F	boron	mg/L	0.06		1.5	
								magnesium		0.023		0.58	
								sodium		0.21		5.25	
				✓			BGS-A2-74E	aluminum	mg/L	0.087		2.18	
								boron		0.057		1.42	
								calcium		0.22		5.5	
								iron		0.051		1.28	
								barium	mg/L	2.1		1.05	

Aq. = Aqueous; S = Solid

Notes:

Tom Weinmann

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	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 (8/16)	~~BGS-A2-67S&D~~	Field blank

all samples collected on 8/16

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

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
aluminum	6800		10	6500		10	NA	4.51%	IN
arsenic	4.4		2.5	3.3		2.5	1.1	NA	IN
barium	60		2.5	89		2.5	NA	38.93%	IN
beryllium	0.27	J	1.5	0.33	J	1.5	0.06	NA	IN
boron	5.6		5	3.4	J	5	2.2	NA	IN
calcium	5700		15	6600		15	NA	14.63%	IN
chromium	3.9	J	5	6.2		5	2.3	NA	IN
cobalt	4.1		2.5	5.4		2.5	1.3	NA	IN
copper	63 ✓		5	130 ✓		5	NA	69.43%	1
iron	12000		5	9400		5	NA	24.30%	IN
lead	3.2		2.5	3.7		2.5	0.5	NA	IN
magnesium	3400		10	3100		10	NA	9.23%	IN
manganese	130 ✓		1	240 ✓		1	NA	59.46%	1
molybdenum	0.4	U	5	0.74	J	5	0.34	NA	IN
nickel	5.6		5	6.7		5	1.1	NA	IN
potassium	770		50	830		50	NA	7.50%	IN
sodium	520		50	550		50	NA	5.61%	IN
vanadium	21		5	31		5	10	NA	IN
zinc	18	J	50	22	J	50	4	NA	IN

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:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-01 (BGS-A1-02S - Soil)					**Sampled: 08/15/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H20140	5.0	10	**11000**	1	08/21/07	08/21/07	MHA
Antimony	EPA 6010B	7H20140	0.88	10	ND	1	08/21/07	08/21/07	
Arsenic	EPA 6020	7H24146	1.8	2.5	**3.9**	5	08/24/07	08/25/07	
Barium	EPA 6020	7H24146	0.65	2.5	**83**	5	08/24/07	08/25/07	
Beryllium	EPA 6020	7H24146	0.20	1.5	**0.56**	5	08/24/07	08/25/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0	**19**	1	08/21/07	08/21/07	
Cadmium	EPA 6020	7H24146	0.30	2.5	ND	5	08/24/07	08/25/07	RL1
Calcium	EPA 6010B	7H20140	6.2	15	**5100**	1	08/21/07	08/21/07	MHA
Chromium	EPA 6020	7H24146	1.8	5.0	J **6.5**	5	08/24/07	08/25/07	
Cobalt	EPA 6020	7H24146	0.40	2.5	J **4.2**	5	08/24/07	08/25/07	
Copper	EPA 6020	7H24146	1.9	5.0	J **13**	5	08/24/07	08/25/07	
Iron	EPA 6010B	7H20140	1.5	5.0	**13000**	1	08/21/07	08/21/07	MHA
Lead	EPA 6020	7H24146	0.25	2.5	J **9.4**	5	08/24/07	08/25/07	
Magnesium	EPA 6010B	7H20140	1.0	10	**4000**	1	08/21/07	08/21/07	MHA
Manganese	EPA 6010B	7H20140	0.80	1.0	**370**	1	08/21/07	08/21/07	
Mercury	EPA 7471A	7H27086	0.012	0.020	**0.018**	1	08/27/07	08/27/07	J
Molybdenum	EPA 6020	7H24146	0.40	5.0	**0.48**	5	08/24/07	08/25/07	RL1, J
Nickel	EPA 6020	7H24146	2.2	5.0	J **4.4**	5	08/24/07	08/25/07	RL1, J
Potassium	EPA 6010B	7H20140	19	50	**2500**	1	08/21/07	08/21/07	MHA
Selenium	EPA 6020	7H24146	0.75	5.0	ND	5	08/24/07	08/25/07	RL1
Silver	EPA 6020	7H24146	0.50	2.5	ND	5	08/24/07	08/25/07	RL1
Sodium	EPA 6010B	7H20140	24	50	**570**	1	08/21/07	08/21/07	M1
Thallium	EPA 6020	7H24146	0.40	2.5	**0.52**	5	08/24/07	08/25/07	RL1, J
Vanadium	EPA 6020	7H24146	1.8	5.0	**24**	5	08/24/07	08/25/07	
Zinc	EPA 6020	7H24146	6.5	50	J **34**	5	08/24/07	08/25/07	RL1, J

TestAmerica - Irvine, CA

Patty Mata
Project Manager

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit		Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-02 (BGS-A1-02D - Soil)						**Sampled: 08/15/07**				
Reporting Units: mg/kg										
Aluminum	EPA 6010B	7H20140	5.0	10		**7900**	1.01	08/21/07	08/21/07	
Antimony	EPA 6010B	7H20140	0.88	10		ND	1.01	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28101	1.8	2.5	UJ	ND	5	08/28/07	08/29/07	RL1
Barium	EPA 6020	7H28101	0.65	2.5	J	**76**	5	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28101	0.20	1.5		**0.44**	5	08/28/07	08/29/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0		**12**	1.01	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28101	0.30	2.5		ND	5	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H20140	6.3	15		**7500**	1.01	08/21/07	08/21/07	
Chromium	EPA 6020	7H28101	1.8	5.0	UJ	ND	5	08/28/07	08/29/07	RL1
Cobalt	EPA 6020	7H28101	0.40	2.5		**3.3**	5	08/28/07	08/29/07	
Copper	EPA 6020	7H28101	1.9	5.0	J	**6.9**	5	08/28/07	08/29/07	
Iron	EPA 6010B	7H20140	1.5	5.0		**11000**	1.01	08/21/07	08/21/07	
Lead	EPA 6020	7H28101	0.25	2.5		**5.8**	5	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H20140	1.0	10		**3000**	1.01	08/21/07	08/21/07	
Manganese	EPA 6010B	7H20140	0.80	1.0		**300**	1.01	08/21/07	08/21/07	
Mercury	EPA 7471A	7H27086	0.012	0.020		ND	1	08/27/07	08/27/07	
Molybdenum	EPA 6020	7H28101	0.40	5.0	UJ	ND	5	08/28/07	08/29/07	RL1
Nickel	EPA 6020	7H28101	2.2	5.0		ND	5	08/28/07	08/29/07	RL1
Potassium	EPA 6010B	7H20140	19	50		**1000**	1.01	08/21/07	08/21/07	
Selenium	EPA 6020	7H28101	0.75	5.0	UJ	ND	5	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28101	0.50	2.5		ND	5	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H20140	24	50		**680**	1.01	08/21/07	08/21/07	
Thallium	EPA 6020	7H28101	0.40	2.5		ND	5	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28101	1.8	5.0	J	**19**	5	08/28/07	08/29/07	
Zinc	EPA 6020	7H28101	6.5	50	J	**25**	5	08/28/07	08/29/07	RL1, J

TestAmerica - Irvine, CA

Patty Mata
Project Manager

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-03 (BGS-A1-05S - Soil)					**Sampled: 08/15/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H20140	5.0	10	**10000**	1.01	08/21/07	08/21/07	
Antimony	EPA 6010B	7H20140	0.88	10	ND	1.01	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28101	1.7	2.5	UJ ND	4.98	08/28/07	08/29/07	RL1
Barium	EPA 6020	7H28101	0.65	2.5	J **70**	4.98	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28101	0.20	1.5	**0.41**	4.98	08/28/07	08/29/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0	**23**	1.01	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28101	0.30	2.5	ND	4.98	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H20140	6.3	15	**2700**	1.01	08/21/07	08/21/07	
Chromium	EPA 6020	7H28101	1.7	5.0	J **3.5**	4.98	08/28/07	08/29/07	RL1, J
Cobalt	EPA 6020	7H28101	0.40	2.5	**4.6**	4.98	08/28/07	08/29/07	
Copper	EPA 6020	7H28101	1.9	5.0	J **12**	4.98	08/28/07	08/29/07	
Iron	EPA 6010B	7H20140	1.5	5.0	**12000**	1.01	08/21/07	08/21/07	
Lead	EPA 6020	7H28101	0.25	2.5	**5.6**	4.98	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H20140	1.0	10	**2900**	1.01	08/21/07	08/21/07	
Manganese	EPA 6010B	7H20140	0.80	1.0	**290**	1.01	08/21/07	08/21/07	
Mercury	EPA 7471A	7H27086	0.012	0.020	ND	1	08/27/07	08/27/07	
Molybdenum	EPA 6020	7H28101	0.40	5.0	UJ ND	4.98	08/28/07	08/29/07	RL1
Nickel	EPA 6020	7H28101	2.2	5.0	**4.0**	4.98	08/28/07	08/29/07	RL1, J
Potassium	EPA 6010B	7H20140	19	50	**2000**	1.01	08/21/07	08/21/07	
Selenium	EPA 6020	7H28101	0.75	5.0	UJ ND	4.98	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28101	0.50	2.5	ND	4.98	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H20140	24	50	**530**	1.01	08/21/07	08/21/07	
Thallium	EPA 6020	7H28101	0.40	2.5	ND	4.98	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28101	1.7	5.0	J **20**	4.98	08/28/07	08/29/07	
Zinc	EPA 6020	7H28101	6.5	50	J **22**	4.98	08/28/07	08/29/07	RL1, J

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-04 (BGS-A1-05D - Soil)					**Sampled: 08/15/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H20140	5.0	10	**7800**	0.995	08/21/07	08/21/07	
Antimony	EPA 6010B	7H20140	0.88	10	ND	0.995	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28101	1.8	2.5	ND	5	08/28/07	08/29/07	RL1
Barium	EPA 6020	7H28101	0.65	2.5	**56**	5	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28101	0.20	1.5	**0.28**	5	08/28/07	08/29/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0	**20**	0.995	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28101	0.30	2.5	ND	5	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H20140	6.2	15	**2700**	0.995	08/21/07	08/21/07	
Chromium	EPA 6020	7H28101	1.8	5.0	**3.7**	5	08/28/07	08/29/07	RL1, J
Cobalt	EPA 6020	7H28101	0.40	2.5	**2.9**	5	08/28/07	08/29/07	
Copper	EPA 6020	7H28101	1.9	5.0	**9.2**	5	08/28/07	08/29/07	
Iron	EPA 6010B	7H20140	1.5	5.0	**11000**	0.995	08/21/07	08/21/07	
Lead	EPA 6020	7H28101	0.25	2.5	**3.9**	5	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H20140	1.0	10	**2300**	0.995	08/21/07	08/21/07	
Manganese	EPA 6010B	7H20140	0.80	1.0	**190**	0.995	08/21/07	08/21/07	
Mercury	EPA 7471A	7H27086	0.012	0.020	ND	1	08/27/07	08/27/07	
Molybdenum	EPA 6020	7H28101	0.40	5.0	ND	5	08/28/07	08/29/07	RL1
Nickel	EPA 6020	7H28101	2.2	5.0	**3.3**	5	08/28/07	08/29/07	RL1, J
Potassium	EPA 6010B	7H20140	19	50	**1400**	0.995	08/21/07	08/21/07	
Selenium	EPA 6020	7H28101	0.75	5.0	ND	5	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28101	0.50	2.5	ND	5	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H20140	24	50	**350**	0.995	08/21/07	08/21/07	
Thallium	EPA 6020	7H28101	0.40	2.5	**0.45**	5	08/28/07	08/29/07	RL1, J
Vanadium	EPA 6020	7H28101	1.8	5.0	**20**	5	08/28/07	08/29/07	
Zinc	EPA 6020	7H28101	6.5	50	**17**	5	08/28/07	08/29/07	RL1, J

Start

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Patty Mata
Project Manager

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-05 (BGS-A1-06S - Soil)					**Sampled: 08/15/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H20140	5.0	10	**4200**	1	08/21/07	08/21/07	
Antimony	EPA 6010B	7H20140	0.88	10	ND	1	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28101	1.7	2.5	UJ ND	4.98	08/28/07	08/29/07	RL1
Barium	EPA 6020	7H28101	0.65	2.5	J **43**	4.98	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28101	0.20	1.5	**0.21**	4.98	08/28/07	08/29/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0	**18**	1	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28101	0.30	2.5	ND	4.98	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H20140	6.2	15	**2200**	1	08/21/07	08/21/07	
Chromium	EPA 6020	7H28101	1.7	5.0	J **2.3**	4.98	08/28/07	08/29/07	RL1, J
Cobalt	EPA 6020	7H28101	0.40	2.5	**3.2**	4.98	08/28/07	08/29/07	
Copper	EPA 6020	7H28101	1.9	5.0	J **9.6**	4.98	08/28/07	08/29/07	
Iron	EPA 6010B	7H20140	1.5	5.0	**9500**	1	08/21/07	08/21/07	
Lead	EPA 6020	7H28101	0.25	2.5	**5.6**	4.98	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H20140	1.0	10	**1500**	1	08/21/07	08/21/07	
Manganese	EPA 6010B	7H20140	0.80	1.0	**220**	1	08/21/07	08/21/07	
Mercury	EPA 7471A	7H27086	0.012	0.020	ND	1	08/27/07	08/27/07	
Molybdenum	EPA 6020	7H28101	0.40	5.0	UJ ND	4.98	08/28/07	08/29/07	RL1
Nickel	EPA 6020	7H28101	2.2	5.0	**3.5**	4.98	08/28/07	08/29/07	RL1, J
Potassium	EPA 6010B	7H20140	19	50	**1100**	1	08/21/07	08/21/07	
Selenium	EPA 6020	7H28101	0.75	5.0	UJ ND	4.98	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28101	0.50	2.5	ND	4.98	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H20140	24	50	**670**	1	08/21/07	08/21/07	
Thallium	EPA 6020	7H28101	0.40	2.5	ND	4.98	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28101	1.7	5.0	J **17**	4.98	08/28/07	08/29/07	
Zinc	EPA 6020	7H28101	6.5	50	J **15**	4.98	08/28/07	08/29/07	RL1, J

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-06 (BGS-A1-06D - Soil)					**Sampled: 08/15/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H20140	5.0	10	**10000**	1	08/21/07	08/21/07	
Antimony	EPA 6010B	7H20140	0.88	10	ND	1	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28101	1.8	2.5	J **2.9**	5.03	08/28/07	08/29/07	
Barium	EPA 6020	7H28101	0.65	2.5	J **61**	5.03	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28101	0.20	1.5	**0.43**	5.03	08/28/07	08/29/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0	**17**	1	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28101	0.30	2.5	ND	5.03	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H20140	6.2	15	**4600**	1	08/21/07	08/21/07	
Chromium	EPA 6020	7H28101	1.8	5.0	J **3.6**	5.03	08/28/07	08/29/07	RL1, J
Cobalt	EPA 6020	7H28101	0.40	2.5	**3.7**	5.03	08/28/07	08/29/07	
Copper	EPA 6020	7H28101	1.9	5.0	J **14**	5.03	08/28/07	08/29/07	
Iron	EPA 6010B	7H20140	1.5	5.0	**12000**	1	08/21/07	08/21/07	
Lead	EPA 6020	7H28101	0.25	2.5	**5.1**	5.03	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H20140	1.0	10	**3200**	1	08/21/07	08/21/07	
Manganese	EPA 6010B	7H20140	0.80	1.0	**260**	1	08/21/07	08/21/07	
Mercury	EPA 7471A	7H27086	0.012	0.020	ND	1	08/27/07	08/27/07	
Molybdenum	EPA 6020	7H28101	0.40	5.0	UJ ND	5.03	08/28/07	08/29/07	RL1
Nickel	EPA 6020	7H28101	2.3	5.0	**4.1**	5.03	08/28/07	08/29/07	RL1, J
Potassium	EPA 6010B	7H20140	19	50	**1400**	1	08/21/07	08/21/07	
Selenium	EPA 6020	7H28101	0.75	5.0	UJ ND	5.03	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28101	0.50	2.5	ND	5.03	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H20140	24	50	**1200**	1	08/21/07	08/21/07	
Thallium	EPA 6020	7H28101	0.40	2.5	ND	5.03	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28101	1.8	5.0	J **21**	5.03	08/28/07	08/29/07	
Zinc	EPA 6020	7H28101	6.5	50	J **23**	5.03	08/28/07	08/29/07	RL1, J

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-07 (BGS-A1-14S - Soil)					**Sampled: 08/15/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H20140	5.0	10	**14000**	1	08/21/07	08/21/07	
Antimony	EPA 6010B	7H20140	0.88	10	ND	1	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28101	1.8	2.5	UJ ND	5	08/28/07	08/29/07	RL1
Barium	EPA 6020	7H28101	0.65	2.5	J **62**	5	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28101	0.20	1.5	**0.56**	5	08/28/07	08/29/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0	**9.9**	1	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28101	0.30	2.5	ND	5	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H20140	6.2	15	**3500**	1	08/21/07	08/21/07	
Chromium	EPA 6020	7H28101	1.8	5.0	J **5.6**	5	08/28/07	08/29/07	
Cobalt	EPA 6020	7H28101	0.40	2.5	**4.1**	5	08/28/07	08/29/07	
Copper	EPA 6020	7H28101	1.9	5.0	J **15**	5	08/28/07	08/29/07	
Iron	EPA 6010B	7H20140	1.5	5.0	**15000**	1	08/21/07	08/21/07	
Lead	EPA 6020	7H28101	0.25	2.5	**5.9**	5	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H20140	1.0	10	**4500**	1	08/21/07	08/21/07	
Manganese	EPA 6010B	7H20140	0.80	1.0	**300**	1	08/21/07	08/21/07	
Mercury	EPA 7471A	7H27086	0.012	0.020	ND	1	08/27/07	08/27/07	
Molybdenum	EPA 6020	7H28101	0.40	5.0	UJ ND	5	08/28/07	08/29/07	RL1
Nickel	EPA 6020	7H28101	2.2	5.0	**5.2**	5	08/28/07	08/29/07	
Potassium	EPA 6010B	7H20140	19	50	**2800**	1	08/21/07	08/21/07	
Selenium	EPA 6020	7H28101	0.75	5.0	UJ ND	5	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28101	0.50	2.5	ND	5	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H20140	24	50	**1000**	1	08/21/07	08/21/07	
Thallium	EPA 6020	7H28101	0.40	2.5	ND	5	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28101	1.8	5.0	J **25**	5	08/28/07	08/29/07	
Zinc	EPA 6020	7H28101	6.5	50	J **30**	5	08/28/07	08/29/07	RL1, J

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Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-08 (BGS-A1-14D - Soil)					**Sampled: 08/15/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H20140	5.0	10	**15000**	1.01	08/21/07	08/21/07	
Antimony	EPA 6010B	7H20140	0.88	10	ND	1.01	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28101	1.8	2.5	J **5.2**	5.03	08/28/07	08/29/07	
Barium	EPA 6020	7H28101	0.65	2.5	J **170**	5.03	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28101	0.20	1.5	**0.59**	5.03	08/28/07	08/29/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0	**35**	1.01	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28101	0.30	2.5	ND	5.03	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H20140	6.3	15	**24000**	1.01	08/21/07	08/21/07	
Chromium	EPA 6020	7H28101	1.8	5.0	J **7.6**	5.03	08/28/07	08/29/07	
Cobalt	EPA 6020	7H28101	0.40	2.5	**6.3**	5.03	08/28/07	08/29/07	
Copper	EPA 6020	7H28101	1.9	5.0	J **24**	5.03	08/28/07	08/29/07	
Iron	EPA 6010B	7H20140	1.5	5.0	**17000**	1.01	08/21/07	08/21/07	
Lead	EPA 6020	7H28101	0.25	2.5	**7.3**	5.03	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H20140	1.0	10	**6200**	1.01	08/21/07	08/21/07	
Manganese	EPA 6010B	7H20140	0.80	1.0	**380**	1.01	08/21/07	08/21/07	
Mercury	EPA 7471A	7H27086	0.012	0.020	ND	1	08/27/07	08/27/07	
Molybdenum	EPA 6020	7H28101	0.40	5.0	J **0.94**	5.03	08/28/07	08/29/07	RL1, J
Nickel	EPA 6020	7H28101	2.3	5.0	**8.3**	5.03	08/28/07	08/29/07	
Potassium	EPA 6010B	7H20140	19	50	**2200**	1.01	08/21/07	08/21/07	
Selenium	EPA 6020	7H28101	0.75	5.0	J ND	5.03	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28101	0.50	2.5	ND	5.03	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H20140	24	50	**2500**	1.01	08/21/07	08/21/07	
Thallium	EPA 6020	7H28101	0.40	2.5	ND	5.03	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28101	1.8	5.0	J **33**	5.03	08/28/07	08/29/07	
Zinc	EPA 6020	7H28101	6.5	50	J **39**	5.03	08/28/07	08/29/07	RL1, J

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Project Manager

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17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-09 (BGS-A2-48S - Soil)					**Sampled: 08/14/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H20140	5.0	10	**11000**	1	08/21/07	08/21/07	
Antimony	EPA 6010B	7H20140	0.88	10	ND	1	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28101	1.7	2.5	J **3.3**	4.98	08/28/07	08/29/07	
Barium	EPA 6020	7H28101	0.65	2.5	J **90**	4.98	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28101	0.20	1.5	**0.37**	4.98	08/28/07	08/29/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0	**8.0**	1	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28101	0.30	2.5	ND	4.98	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H20140	6.2	15	**19000**	1	08/21/07	08/21/07	
Chromium	EPA 6020	7H28101	1.7	5.0	J **5.6**	4.98	08/28/07	08/29/07	
Cobalt	EPA 6020	7H28101	0.40	2.5	**5.4**	4.98	08/28/07	08/29/07	
Copper	EPA 6020	7H28101	1.9	5.0	J **89**	4.98	08/28/07	08/29/07	
Iron	EPA 6010B	7H20140	1.5	5.0	**16000**	1	08/21/07	08/21/07	
Lead	EPA 6020	7H28101	0.25	2.5	**5.7**	4.98	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H20140	1.0	10	**5500**	1	08/21/07	08/21/07	
Manganese	EPA 6010B	7H20140	0.80	1.0	**240**	1	08/21/07	08/21/07	
Mercury	EPA 7471A	7H27086	0.012	0.020	ND	1	08/27/07	08/27/07	
Molybdenum	EPA 6020	7H28101	0.40	5.0	J **1.3**	4.98	08/28/07	08/29/07	RL1, J
Nickel	EPA 6020	7H28101	2.2	5.0	**7.2**	4.98	08/28/07	08/29/07	
Potassium	EPA 6010B	7H20140	19	50	**2500**	1	08/21/07	08/21/07	
Selenium	EPA 6020	7H28101	0.75	5.0	UJ ND	4.98	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28101	0.50	2.5	ND	4.98	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H20140	24	50	**300**	1	08/21/07	08/21/07	
Thallium	EPA 6020	7H28101	0.40	2.5	ND	4.98	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28101	1.7	5.0	J **24**	4.98	08/28/07	08/29/07	
Zinc	EPA 6020	7H28101	6.5	50	J **25**	4.98	08/28/07	08/29/07	RL1, J

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Patty Mata
Project Manager

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-10 (BGS-A2-48D - Soil)					**Sampled: 08/14/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H20140	5.0	10	**9700**	1	08/21/07	08/21/07	
Antimony	EPA 6010B	7H20140	0.88	10	ND	1	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28101	1.7	2.5	J **2.4**	4.98	08/28/07	08/29/07	RL1, J
Barium	EPA 6020	7H28101	0.65	2.5	J **52**	4.98	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28101	0.20	1.5	**0.34**	4.98	08/28/07	08/29/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0	J **7.5**	1	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28101	0.30	2.5	ND	4.98	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H20140	6.2	15	**9500**	1	08/21/07	08/21/07	
Chromium	EPA 6020	7H28101	1.7	5.0	J **6.8**	4.98	08/28/07	08/29/07	
Cobalt	EPA 6020	7H28101	0.40	2.5	**4.5**	4.98	08/28/07	08/29/07	
Copper	EPA 6020	7H28101	1.9	5.0	J **110**	4.98	08/28/07	08/29/07	
Iron	EPA 6010B	7H20140	1.5	5.0	**13000**	1	08/21/07	08/21/07	
Lead	EPA 6020	7H28101	0.25	2.5	**3.7**	4.98	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H20140	1.0	10	**4300**	1	08/21/07	08/21/07	
Manganese	EPA 6010B	7H20140	0.80	1.0	**150**	1	08/21/07	08/21/07	
Mercury	EPA 7471A	7H27086	0.012	0.020	ND	1	08/27/07	08/27/07	
Molybdenum	EPA 6020	7H28101	0.40	5.0	J **0.40**	4.98	08/28/07	08/29/07	RL1, J
Nickel	EPA 6020	7H28101	2.2	5.0	**6.8**	4.98	08/28/07	08/29/07	
Potassium	EPA 6010B	7H20140	19	50	**1100**	1	08/21/07	08/21/07	
Selenium	EPA 6020	7H28101	0.75	5.0	J ND	4.98	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28101	0.50	2.5	ND	4.98	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H20140	24	50	**970**	1	08/21/07	08/21/07	
Thallium	EPA 6020	7H28101	0.40	2.5	ND	4.98	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28101	1.7	5.0	J **24**	4.98	08/28/07	08/29/07	
Zinc	EPA 6020	7H28101	6.5	50	J **19**	4.98	08/28/07	08/29/07	RL1, J

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit		Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-11 (BGS-A2-49S - Soil)						**Sampled: 08/14/07**				
Reporting Units: mg/kg										
Aluminum	EPA 6010B	7H20140	5.0	10		**15000**	0.995	08/21/07	08/21/07	
Antimony	EPA 6010B	7H20140	0.88	10		ND	0.995	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28101	1.8	2.5	J	**2.4**	5.03	08/28/07	08/29/07	RL1, J
Barium	EPA 6020	7H28101	0.65	2.5	J	**150**	5.03	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28101	0.20	1.5		**0.56**	5.03	08/28/07	08/29/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0		**9.7**	0.995	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28101	0.30	2.5		ND	5.03	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H20140	6.2	15		**5200**	0.995	08/21/07	08/21/07	
Chromium	EPA 6020	7H28101	1.8	5.0	J	**5.8**	5.03	08/28/07	08/29/07	
Cobalt	EPA 6020	7H28101	0.40	2.5		**5.9**	5.03	08/28/07	08/29/07	
Copper	EPA 6020	7H28101	1.9	5.0	J	**17**	5.03	08/28/07	08/29/07	
Iron	EPA 6010B	7H20140	1.5	5.0		**19000**	0.995	08/21/07	08/21/07	
Lead	EPA 6020	7H28101	0.25	2.5		**6.4**	5.03	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H20140	1.0	10		**5100**	0.995	08/21/07	08/21/07	
Manganese	EPA 6010B	7H20140	0.80	1.0		**520**	0.995	08/21/07	08/21/07	
Mercury	EPA 7471A	7H27086	0.012	0.020		ND	1	08/27/07	08/27/07	
Molybdenum	EPA 6020	7H28101	0.40	5.0	J	ND	5.03	08/28/07	08/29/07	RL1
Nickel	EPA 6020	7H28101	2.3	5.0		**4.7**	5.03	08/28/07	08/29/07	RL1, J
Potassium	EPA 6010B	7H20140	19	50		**3700**	0.995	08/21/07	08/21/07	
Selenium	EPA 6020	7H28101	0.75	5.0	J	ND	5.03	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28101	0.50	2.5		ND	5.03	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H20140	24	50		**350**	0.995	08/21/07	08/21/07	
Thallium	EPA 6020	7H28101	0.40	2.5		ND	5.03	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28101	1.8	5.0	J	**32**	5.03	08/28/07	08/29/07	
Zinc	EPA 6020	7H28101	6.5	50	J	**43**	5.03	08/28/07	08/29/07	RL1, J

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3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-12 (BGS-A2-49D - Soil)					**Sampled: 08/14/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H20140	5.0	10	**14000**	0.995	08/21/07	08/21/07	
Antimony	EPA 6010B	7H20140	0.88	10	ND	0.995	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28101	1.8	2.5	J **6.9**	5	08/28/07	08/29/07	
Barium	EPA 6020	7H28101	0.65	2.5	J **150**	5	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28101	0.20	1.5	**0.63**	5	08/28/07	08/29/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0	**10**	0.995	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28101	0.30	2.5	ND	5	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H20140	6.2	15	**11000**	0.995	08/21/07	08/21/07	
Chromium	EPA 6020	7H28101	1.8	5.0	J **3.1**	5	08/28/07	08/29/07	RL1, J
Cobalt	EPA 6020	7H28101	0.40	2.5	**5.8**	5	08/28/07	08/29/07	
Copper	EPA 6020	7H28101	1.9	5.0	J **14**	5	08/28/07	08/29/07	
Iron	EPA 6010B	7H20140	1.5	5.0	**18000**	0.995	08/21/07	08/21/07	
Lead	EPA 6020	7H28101	0.25	2.5	**5.7**	5	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H20140	1.0	10	**4700**	0.995	08/21/07	08/21/07	
Manganese	EPA 6010B	7H20140	0.80	1.0	**420**	0.995	08/21/07	08/21/07	
Mercury	EPA 7471A	7H27086	0.012	0.020	ND	1	08/27/07	08/27/07	
Molybdenum	EPA 6020	7H28101	0.40	5.0	UJ ND	5	08/28/07	08/29/07	RL1
Nickel	EPA 6020	7H28101	2.2	5.0	**3.9**	5	08/28/07	08/29/07	RL1, J
Potassium	EPA 6010B	7H20140	19	50	**2200**	0.995	08/21/07	08/21/07	
Selenium	EPA 6020	7H28101	0.75	5.0	UJ ND	5	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28101	0.50	2.5	ND	5	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H20140	24	50	**620**	0.995	08/21/07	08/21/07	
Thallium	EPA 6020	7H28101	0.40	2.5	ND	5	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28101	1.8	5.0	J **29**	5	08/28/07	08/29/07	
Zinc	EPA 6020	7H28101	6.5	50	J **34**	5	08/28/07	08/29/07	RL1, J

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Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-13 (BGS-A2-50S - Soil)					**Sampled: 08/14/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H20140	5.0	10	**11000**	1	08/21/07	08/21/07	
Antimony	EPA 6010B	7H20140	0.88	10	ND	1	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28101	1.7	2.5	J **6.6**	4.98	08/28/07	08/29/07	
Barium	EPA 6020	7H28101	0.65	2.5	J **160**	4.98	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28101	0.20	1.5	**0.50**	4.98	08/28/07	08/29/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0	VJ **6.7**	1	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28101	0.30	2.5	ND	4.98	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H20140	6.2	15	**23000**	1	08/21/07	08/21/07	
Chromium	EPA 6020	7H28101	1.7	5.0	J **5.1**	4.98	08/28/07	08/29/07	
Cobalt	EPA 6020	7H28101	0.40	2.5	**5.1**	4.98	08/28/07	08/29/07	
Copper	EPA 6020	7H28101	1.9	5.0	J **70**	4.98	08/28/07	08/29/07	
Iron	EPA 6010B	7H20140	1.5	5.0	**13000**	1	08/21/07	08/21/07	
Lead	EPA 6020	7H28101	0.25	2.5	**4.3**	4.98	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H20140	1.0	10	**4500**	1	08/21/07	08/21/07	
Manganese	EPA 6010B	7H20140	0.80	1.0	**180**	1	08/21/07	08/21/07	
Mercury	EPA 7471A	7H27086	0.012	0.020	ND	1	08/27/07	08/27/07	
Molybdenum	EPA 6020	7H28101	0.40	5.0	VJ ND	4.98	08/28/07	08/29/07	RL1
Nickel	EPA 6020	7H28101	2.2	5.0	**7.0**	4.98	08/28/07	08/29/07	
Potassium	EPA 6010B	7H20140	19	50	**1300**	1	08/21/07	08/21/07	
Selenium	EPA 6020	7H28101	0.75	5.0	VJ ND	4.98	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28101	0.50	2.5	ND	4.98	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H20140	24	50	**250**	1	08/21/07	08/21/07	
Thallium	EPA 6020	7H28101	0.40	2.5	ND	4.98	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28101	1.7	5.0	J **24**	4.98	08/28/07	08/29/07	
Zinc	EPA 6020	7H28101	6.5	50	J **27**	4.98	08/28/07	08/29/07	RL1, J

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132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-14 (BGS-A2-50D - Soil)					**Sampled: 08/14/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H20140	5.0	10	**11000**	0.995	08/21/07	08/21/07	
Antimony	EPA 6010B	7H20140	0.88	10	ND	0.995	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28101	1.7	2.5	J **9.7**	4.98	08/28/07	08/29/07	
Barium	EPA 6020	7H28101	0.65	2.5	J **100**	4.98	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28101	0.20	1.5	**0.35**	4.98	08/28/07	08/29/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0	**8.3**	0.995	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28101	0.30	2.5	ND	4.98	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H20140	6.2	15	**15000**	0.995	08/21/07	08/21/07	
Chromium	EPA 6020	7H28101	1.7	5.0	J **5.5**	4.98	08/28/07	08/29/07	
Cobalt	EPA 6020	7H28101	0.40	2.5	**4.4**	4.98	08/28/07	08/29/07	
Copper	EPA 6020	7H28101	1.9	5.0	J **85**	4.98	08/28/07	08/29/07	
Iron	EPA 6010B	7H20140	1.5	5.0	**14000**	0.995	08/21/07	08/21/07	
Lead	EPA 6020	7H28101	0.25	2.5	**4.0**	4.98	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H20140	1.0	10	**4600**	0.995	08/21/07	08/21/07	
Manganese	EPA 6010B	7H20140	0.80	1.0	**250**	0.995	08/21/07	08/21/07	
Mercury	EPA 7471A	7H27086	0.012	0.020	ND	1	08/27/07	08/27/07	
Molybdenum	EPA 6020	7H28101	0.40	5.0	UJ ND	4.98	08/28/07	08/29/07	RL1
Nickel	EPA 6020	7H28101	2.2	5.0	**6.5**	4.98	08/28/07	08/29/07	
Potassium	EPA 6010B	7H20140	19	50	**1300**	0.995	08/21/07	08/21/07	
Selenium	EPA 6020	7H28101	0.75	5.0	UJ ND	4.98	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28101	0.50	2.5	ND	4.98	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H20140	24	50	**330**	0.995	08/21/07	08/21/07	
Thallium	EPA 6020	7H28101	0.40	2.5	ND	4.98	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28101	1.7	5.0	J **29**	4.98	08/28/07	08/29/07	
Zinc	EPA 6020	7H28101	6.5	50	J **24**	4.98	08/28/07	08/29/07	RL1, J

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Project Manager

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-15 (BGS-A2-51S - Soil)					**Sampled: 08/14/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H20140	5.0	10	**8300**	1.01	08/21/07	08/21/07	
Antimony	EPA 6010B	7H20140	0.88	10	ND	1.01	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28101	1.7	2.5	J **6.7**	4.98	08/28/07	08/29/07	
Barium	EPA 6020	7H28101	0.65	2.5	J **110**	4.98	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28101	0.20	1.5	**0.59**	4.98	08/28/07	08/29/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0	J **5.4**	1.01	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28101	0.30	2.5	ND	4.98	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H20140	6.3	15	**13000**	1.01	08/21/07	08/21/07	
Chromium	EPA 6020	7H28101	1.7	5.0	J **10**	4.98	08/28/07	08/29/07	
Cobalt	EPA 6020	7H28101	0.40	2.5	**7.2**	4.98	08/28/07	08/29/07	
Copper	EPA 6020	7H28101	1.9	5.0	J **130**	4.98	08/28/07	08/29/07	
Iron	EPA 6010B	7H20140	1.5	5.0	**12000**	1.01	08/21/07	08/21/07	
Lead	EPA 6020	7H28101	0.25	2.5	**5.2**	4.98	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H20140	1.0	10	**4900**	1.01	08/21/07	08/21/07	
Manganese	EPA 6010B	7H20140	0.80	1.0	**130**	1.01	08/21/07	08/21/07	
Mercury	EPA 7471A	7H27086	0.012	0.020	ND	1	08/27/07	08/27/07	
Molybdenum	EPA 6020	7H28101	0.40	5.0	UJ ND	4.98	08/28/07	08/29/07	RL1
Nickel	EPA 6020	7H28101	2.2	5.0	**12**	4.98	08/28/07	08/29/07	
Potassium	EPA 6010B	7H20140	19	50	**1000**	1.01	08/21/07	08/21/07	
Selenium	EPA 6020	7H28101	0.75	5.0	UJ ND	4.98	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28101	0.50	2.5	ND	4.98	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H20140	24	50	U **180**	1.01	08/21/07	08/21/07	
Thallium	EPA 6020	7H28101	0.40	2.5	ND	4.98	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28101	1.7	5.0	J **30**	4.98	08/28/07	08/29/07	
Zinc	EPA 6020	7H28101	6.5	50	J **33**	4.98	08/28/07	08/29/07	RL1, J

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Project Manager

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-16 (BGS-A2-51D-1 - Soil)					**Sampled: 08/14/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H20140	5.0	10	**6800**	1	08/21/07	08/21/07	
Antimony	EPA 6010B	7H20140	0.88	10	ND	1	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28101	1.8	2.5	J **4.4**	5.03	08/28/07	08/29/07	
Barium	EPA 6020	7H28101	0.65	2.5	J **60**	5.03	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28101	0.20	1.5	**0.27**	5.03	08/28/07	08/29/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0	J **5.6**	1	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28101	0.30	2.5	ND	5.03	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H20140	6.2	15	**5700**	1	08/21/07	08/21/07	
Chromium	EPA 6020	7H28101	1.8	5.0	J **3.9**	5.03	08/28/07	08/29/07	J
Cobalt	EPA 6020	7H28101	0.40	2.5	**4.1**	5.03	08/28/07	08/29/07	
Copper	EPA 6020	7H28101	1.9	5.0	J **63**	5.03	08/28/07	08/29/07	
Iron	EPA 6010B	7H20140	1.5	5.0	**12000**	1	08/21/07	08/21/07	
Lead	EPA 6020	7H28101	0.25	2.5	**3.2**	5.03	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H20140	1.0	10	**3400**	1	08/21/07	08/21/07	
Manganese	EPA 6010B	7H20140	0.80	1.0	J **130**	1	08/21/07	08/21/07	
Mercury	EPA 7471A	7H28066	0.012	0.020	ND	1	08/28/07	08/28/07	
Molybdenum	EPA 6020	7H28101	0.40	5.0	J ND	5.03	08/28/07	08/29/07	RL1
Nickel	EPA 6020	7H28101	2.3	5.0	**5.6**	5.03	08/28/07	08/29/07	
Potassium	EPA 6010B	7H20140	19	50	**770**	1	08/21/07	08/21/07	
Selenium	EPA 6020	7H28101	0.75	5.0	J ND	5.03	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28101	0.50	2.5	ND	5.03	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H20140	24	50	**520**	1	08/21/07	08/21/07	
Thallium	EPA 6020	7H28101	0.40	2.5	ND	5.03	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28101	1.8	5.0	J **21**	5.03	08/28/07	08/29/07	
Zinc	EPA 6020	7H28101	6.5	50	J **18**	5.03	08/28/07	08/29/07	RL1, J

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-17 (BGS-A2-51D-2 - Soil)					**Sampled: 08/14/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H20140	5.0	10	**6500**	1	08/21/07	08/21/07	
Antimony	EPA 6010B	7H20140	0.88	10	ND	1	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28132	1.7	2.5	J **3.3**	4.98	08/28/07	08/29/07	
Barium	EPA 6020	7H28132	0.65	2.5	J **89**	4.98	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28132	0.20	1.5	**0.33**	4.98	08/28/07	08/30/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0	J **3.4**	1	08/21/07	08/21/07	J
Cadmium	EPA 6020	7H28132	0.30	2.5	ND	4.98	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H20140	6.2	15	**6600**	1	08/21/07	08/21/07	
Chromium	EPA 6020	7H28132	1.7	5.0	J **6.2**	4.98	08/28/07	08/29/07	
Cobalt	EPA 6020	7H28132	0.40	2.5	**5.4**	4.98	08/28/07	08/29/07	
Copper	EPA 6020	7H28132	1.9	5.0	J **130**	4.98	08/28/07	08/29/07	
Iron	EPA 6010B	7H20140	1.5	5.0	**9400**	1	08/21/07	08/21/07	
Lead	EPA 6020	7H28132	0.25	2.5	**3.7**	4.98	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H20140	1.0	10	**3100**	1	08/21/07	08/21/07	
Manganese	EPA 6010B	7H20140	0.80	1.0	J **240**	1	08/21/07	08/21/07	
Mercury	EPA 7471A	7H28066	0.012	0.020	ND	1	08/28/07	08/28/07	
Molybdenum	EPA 6020	7H28132	0.40	5.0	J **0.74**	4.98	08/28/07	08/29/07	RL1, J
Nickel	EPA 6020	7H28132	2.2	5.0	**6.7**	4.98	08/28/07	08/29/07	
Potassium	EPA 6010B	7H20140	19	50	**830**	1	08/21/07	08/21/07	
Selenium	EPA 6020	7H28132	0.75	5.0	J ND	4.98	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28132	0.50	2.5	ND	4.98	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H20140	24	50	**550**	1	08/21/07	08/21/07	
Thallium	EPA 6020	7H28132	0.40	2.5	ND	4.98	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28132	1.7	5.0	J **31**	4.98	08/28/07	08/29/07	
Zinc	EPA 6020	7H28132	6.5	50	(J) V **22**	4.98	08/28/07	08/29/07	RL1, J

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-19 (BGS-A2-53S - Soil)					**Sampled: 08/15/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H20140	5.0	10	**16000**	1	08/21/07	08/21/07	
Antimony	EPA 6010B	7H20140	0.88	10	ND	1	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28132	1.8	2.5	J **3.4**	5	08/28/07	08/29/07	
Barium	EPA 6020	7H28132	0.65	2.5	J **120**	5	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28132	0.20	1.5	**0.79**	5	08/28/07	08/30/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0	**9.1**	1	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28132	0.30	2.5	ND	5	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H20140	6.2	15	**9100**	1	08/21/07	08/21/07	
Chromium	EPA 6020	7H28132	1.8	5.0	J **5.0**	5	08/28/07	08/29/07	J
Cobalt	EPA 6020	7H28132	0.40	2.5	**4.9**	5	08/28/07	08/29/07	
Copper	EPA 6020	7H28132	1.9	5.0	J **17**	5	08/28/07	08/29/07	
Iron	EPA 6010B	7H20140	1.5	5.0	**16000**	1	08/21/07	08/21/07	
Lead	EPA 6020	7H28132	0.25	2.5	**7.6**	5	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H20140	1.0	10	**4500**	1	08/21/07	08/21/07	
Manganese	EPA 6010B	7H20140	0.80	1.0	**490**	1	08/21/07	08/21/07	
Mercury	EPA 7471A	7H28066	0.012	0.020	ND	1	08/28/07	08/28/07	
Molybdenum	EPA 6020	7H28132	0.40	5.0	J **0.55**	5	08/28/07	08/29/07	RL1, J
Nickel	EPA 6020	7H28132	2.2	5.0	**5.2**	5	08/28/07	08/29/07	
Potassium	EPA 6010B	7H20140	19	50	**2400**	1	08/21/07	08/21/07	
Selenium	EPA 6020	7H28132	0.75	5.0	UJ ND	5	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28132	0.50	2.5	ND	5	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H20140	24	50	**830**	1	08/21/07	08/21/07	
Thallium	EPA 6020	7H28132	0.40	2.5	ND	5	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28132	1.8	5.0	J **24**	5	08/28/07	08/29/07	
Zinc	EPA 6020	7H28132	6.5	50	(J) U **43**	5	08/28/07	08/29/07	RL1, J

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Brown and Caldwell - NV
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Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-20 (BGS-A2-53D - Soil)					**Sampled: 08/15/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H20140	5.0	10	**13000**	1	08/21/07	08/21/07	
Antimony	EPA 6010B	7H20140	0.88	10	ND	1	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28132	1.7	2.5	J **5.8**	4.98	08/28/07	08/29/07	
Barium	EPA 6020	7H28132	0.65	2.5	J **81**	4.98	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28132	0.20	1.5	**0.74**	4.98	08/28/07	08/30/07	RL1, J
Boron	EPA 6010B	7H20140	2.1	5.0	**7.0**	1	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28132	0.30	2.5	ND	4.98	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H20140	6.2	15	**15000**	1	08/21/07	08/21/07	
Chromium	EPA 6020	7H28132	1.7	5.0	J **3.3**	4.98	08/28/07	08/29/07	RL1, J
Cobalt	EPA 6020	7H28132	0.40	2.5	**6.1**	4.98	08/28/07	08/29/07	
Copper	EPA 6020	7H28132	1.9	5.0	J **20**	4.98	08/28/07	08/29/07	
Iron	EPA 6010B	7H20140	1.5	5.0	**14000**	1	08/21/07	08/21/07	
Lead	EPA 6020	7H28132	0.25	2.5	**6.0**	4.98	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H20140	1.0	10	**3400**	1	08/21/07	08/21/07	
Manganese	EPA 6010B	7H20140	0.80	1.0	**410**	1	08/21/07	08/21/07	
Mercury	EPA 7471A	7H28066	0.012	0.020	ND	1	08/28/07	08/28/07	
Molybdenum	EPA 6020	7H28132	0.40	5.0	J **0.45**	4.98	08/28/07	08/29/07	RL1, J
Nickel	EPA 6020	7H28132	2.2	5.0	**6.3**	4.98	08/28/07	08/29/07	
Potassium	EPA 6010B	7H20140	19	50	**1300**	1	08/21/07	08/21/07	
Selenium	EPA 6020	7H28132	0.75	5.0	UJ ND	4.98	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28132	0.50	2.5	ND	4.98	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H20140	24	50	U **230**	1	08/21/07	08/21/07	
Thallium	EPA 6020	7H28132	0.40	2.5	ND	4.98	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28132	1.7	5.0	J **24**	4.98	08/28/07	08/29/07	
Zinc	EPA 6020	7H28132	6.5	50 (J)	U **33**	4.98	08/28/07	08/29/07	RL1, J

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Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-25 (BGS-A2-56S - Soil)					**Sampled: 08/14/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H21073	5.0	9.9	**12000**	0.99	08/21/07	08/21/07	
Antimony	EPA 6010B	7H21073	0.87	9.9	ND	0.99	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28132	1.8	2.5	J **2.3**	5	08/28/07	08/29/07	RL1, J
Barium	EPA 6020	7H28132	0.65	2.5	J **72**	5	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28132	0.20	1.5	**0.47**	5	08/28/07	08/30/07	RL1, J
Boron	EPA 6010B	7H21073	2.1	5.0	J **6.3**	0.99	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28132	0.30	2.5	ND	5	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H21073	6.2	15	**2900**	0.99	08/21/07	08/21/07	
Chromium	EPA 6020	7H28132	1.8	5.0	J **9.2**	5	08/28/07	08/29/07	
Cobalt	EPA 6020	7H28132	0.40	2.5	**7.6**	5	08/28/07	08/29/07	
Copper	EPA 6020	7H28132	1.9	5.0	J **27**	5	08/28/07	08/29/07	
Iron	EPA 6010B	7H21073	1.5	5.0	**16000**	0.99	08/21/07	08/21/07	
Lead	EPA 6020	7H28132	0.25	2.5	**6.3**	5	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H21073	0.99	9.9	**3900**	0.99	08/21/07	08/21/07	
Manganese	EPA 6010B	7H21073	0.79	0.99	**300**	0.99	08/21/07	08/21/07	
Mercury	EPA 7471A	7H28066	0.012	0.020	ND	1	08/28/07	08/28/07	
Molybdenum	EPA 6020	7H28132	0.40	5.0	J **0.41**	5	08/28/07	08/29/07	RL1, J
Nickel	EPA 6020	7H28132	2.2	5.0	**8.7**	5	08/28/07	08/29/07	
Potassium	EPA 6010B	7H21073	19	50	**3000**	0.99	08/21/07	08/21/07	
Selenium	EPA 6020	7H28132	0.75	5.0	J ND	5	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28132	0.50	2.5	ND	5	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H21073	24	50	**320**	0.99	08/21/07	08/21/07	
Thallium	EPA 6020	7H28132	0.40	2.5	ND	5	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28132	1.8	5.0	J **37**	5	08/28/07	08/29/07	
Zinc	EPA 6020	7H28132	6.5	50 (J) V	**36**	5	08/28/07	08/29/07	RL1, J

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Patty Mata
Project Manager

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-26 (BGS-A2-56D - Soil)					**Sampled: 08/14/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H21073	5.0	10	**9700**	0.995	08/21/07	08/21/07	
Antimony	EPA 6010B	7H21073	0.88	10	ND	0.995	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28132	1.8	2.5	J **3.2**	5	08/28/07	08/29/07	
Barium	EPA 6020	7H28132	0.65	2.5	J **99**	5	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28132	0.20	1.5	**0.30**	5	08/28/07	08/30/07	RL1, J
Boron	EPA 6010B	7H21073	2.1	5.0	UJ **4.7**	0.995	08/21/07	08/21/07	J
Cadmium	EPA 6020	7H28132	0.30	2.5	ND	5	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H21073	6.2	15	**13000**	0.995	08/21/07	08/21/07	
Chromium	EPA 6020	7H28132	1.8	5.0	J **18**	5	08/28/07	08/29/07	
Cobalt	EPA 6020	7H28132	0.40	2.5	**8.5**	5	08/28/07	08/29/07	
Copper	EPA 6020	7H28132	1.9	5.0	J **31**	5	08/28/07	08/29/07	
Iron	EPA 6010B	7H21073	1.5	5.0	**15000**	0.995	08/21/07	08/21/07	
Lead	EPA 6020	7H28132	0.25	2.5	**3.6**	5	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H21073	1.0	10	**5900**	0.995	08/21/07	08/21/07	
Manganese	EPA 6010B	7H21073	0.80	1.0	**240**	0.995	08/21/07	08/21/07	
Mercury	EPA 7471A	7H28066	0.012	0.020	ND	1	08/28/07	08/28/07	
Molybdenum	EPA 6020	7H28132	0.40	5.0	UJ ND	5	08/28/07	08/29/07	RL1
Nickel	EPA 6020	7H28132	2.2	5.0	**16**	5	08/28/07	08/29/07	
Potassium	EPA 6010B	7H21073	19	50	**1700**	0.995	08/21/07	08/21/07	
Selenium	EPA 6020	7H28132	0.75	5.0	UJ ND	5	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28132	0.50	2.5	ND	5	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H21073	24	50	**620**	0.995	08/21/07	08/21/07	
Thallium	EPA 6020	7H28132	0.40	2.5	ND	5	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28132	1.8	5.0	J **42**	5	08/28/07	08/29/07	
Zinc	EPA 6020	7H28132	6.5	50 (5)	U **32**	5	08/28/07	08/29/07	RL1, J

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit		Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-27 (BGS-A2-57S - Soil)						**Sampled: 08/14/07**				
Reporting Units: mg/kg										
Aluminum	EPA 6010B	7H21073	5.0	10		**9000**	0.995	08/21/07	08/21/07	
Antimony	EPA 6010B	7H21073	0.88	10		ND	0.995	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28132	1.7	2.5	UJ	ND	4.98	08/28/07	08/29/07	RL1
Barium	EPA 6020	7H28132	0.65	2.5	J	**70**	4.98	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28132	0.20	1.5		**0.32**	4.98	08/28/07	08/30/07	RL1, J
Boron	EPA 6010B	7H21073	2.1	5.0	UJ	**3.9**	0.995	08/21/07	08/21/07	J
Cadmium	EPA 6020	7H28132	0.30	2.5		ND	4.98	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H21073	6.2	15		**4600**	0.995	08/21/07	08/21/07	
Chromium	EPA 6020	7H28132	1.7	5.0	J	**11**	4.98	08/28/07	08/29/07	
Cobalt	EPA 6020	7H28132	0.40	2.5		**6.5**	4.98	08/28/07	08/29/07	
Copper	EPA 6020	7H28132	1.9	5.0	J	**38**	4.98	08/28/07	08/29/07	
Iron	EPA 6010B	7H21073	1.5	5.0		**14000**	0.995	08/21/07	08/21/07	
Lead	EPA 6020	7H28132	0.25	2.5		**4.4**	4.98	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H21073	1.0	10		**4200**	0.995	08/21/07	08/21/07	
Manganese	EPA 6010B	7H21073	0.80	1.0		**200**	0.995	08/21/07	08/21/07	
Mercury	EPA 7471A	7H28066	0.012	0.020		ND	1	08/28/07	08/28/07	
Molybdenum	EPA 6020	7H28132	0.40	5.0	J	**0.42**	4.98	08/28/07	08/29/07	RL1, J
Nickel	EPA 6020	7H28132	2.2	5.0		**9.3**	4.98	08/28/07	08/29/07	
Potassium	EPA 6010B	7H21073	19	50		**2600**	0.995	08/21/07	08/21/07	
Selenium	EPA 6020	7H28132	0.75	5.0	UJ	ND	4.98	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28132	0.50	2.5		ND	4.98	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H21073	24	50		**140**	0.995	08/21/07	08/21/07	
Thallium	EPA 6020	7H28132	0.40	2.5		ND	4.98	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28132	1.7	5.0	J	**38**	4.98	08/28/07	08/29/07	
Zinc	EPA 6020	7H28132	6.5	50 (5)	U	**27**	4.98	08/28/07	08/29/07	RL1, J

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-28 (BGS-A2-57D - Soil)					**Sampled: 08/14/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H21073	5.0	9.9	**10000**	0.99	08/21/07	08/21/07	
Antimony	EPA 6010B	7H21073	0.87	9.9	ND	0.99	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28132	1.7	2.5	J **7.7**	4.98	08/28/07	08/29/07	
Barium	EPA 6020	7H28132	0.65	2.5	J **150**	4.98	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28132	0.20	1.5	**0.38**	4.98	08/28/07	08/30/07	RL1, J
Boron	EPA 6010B	7H21073	2.1	5.0	J **7.6**	0.99	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28132	0.30	2.5	ND	4.98	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H21073	6.2	15	**37000**	0.99	08/21/07	08/21/07	
Chromium	EPA 6020	7H28132	1.7	5.0	J **15**	4.98	08/28/07	08/29/07	
Cobalt	EPA 6020	7H28132	0.40	2.5	**7.8**	4.98	08/28/07	08/29/07	
Copper	EPA 6020	7H28132	1.9	5.0	J **52**	4.98	08/28/07	08/29/07	
Iron	EPA 6010B	7H21073	1.5	5.0	**14000**	0.99	08/21/07	08/21/07	
Lead	EPA 6020	7H28132	0.25	2.5	**4.3**	4.98	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H21073	0.99	9.9	**6000**	0.99	08/21/07	08/21/07	
Manganese	EPA 6010B	7H21073	0.79	0.99	**190**	0.99	08/21/07	08/21/07	
Mercury	EPA 7471A	7H28066	0.012	0.020	ND	1	08/28/07	08/28/07	
Molybdenum	EPA 6020	7H28132	0.40	5.0	J ND	4.98	08/28/07	08/29/07	RL1
Nickel	EPA 6020	7H28132	2.2	5.0	**14**	4.98	08/28/07	08/29/07	
Potassium	EPA 6010B	7H21073	19	50	**1600**	0.99	08/21/07	08/21/07	
Selenium	EPA 6020	7H28132	0.75	5.0	J ND	4.98	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28132	0.50	2.5	ND	4.98	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H21073	24	50	**360**	0.99	08/21/07	08/21/07	
Thallium	EPA 6020	7H28132	0.40	2.5	ND	4.98	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28132	1.7	5.0	J **39**	4.98	08/28/07	08/29/07	
Zinc	EPA 6020	7H28132	6.5	50 (J)	U **29**	4.98	08/28/07	08/29/07	RL1, J

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Project Manager

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-29 (BGS-A2-58S - Soil)					**Sampled: 08/14/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H21073	5.0	9.9	**11000**	0.99	08/21/07	08/21/07	
Antimony	EPA 6010B	7H21073	0.87	9.9	ND	0.99	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28132	1.8	2.5	J **2.4**	5	08/28/07	08/29/07	M2, RL1, J
Barium	EPA 6020	7H28132	0.65	2.5	J **60**	5	08/28/07	08/29/07	M2
Beryllium	EPA 6020	7H28132	0.20	1.5	**0.38**	5	08/28/07	08/30/07	RL1, J
Boron	EPA 6010B	7H21073	2.1	5.0	UJ **6.4**	0.99	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28132	0.30	2.5	ND	5	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H21073	6.2	15	**3400**	0.99	08/21/07	08/21/07	
Chromium	EPA 6020	7H28132	1.8	5.0	J **9.4**	5	08/28/07	08/29/07	M2
Cobalt	EPA 6020	7H28132	0.40	2.5	**6.2**	5	08/28/07	08/29/07	
Copper	EPA 6020	7H28132	1.9	5.0	J **30**	5	08/28/07	08/29/07	M2
Iron	EPA 6010B	7H21073	1.5	5.0	**15000**	0.99	08/21/07	08/21/07	
Lead	EPA 6020	7H28132	0.25	2.5	**5.6**	5	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H21073	0.99	9.9	**3900**	0.99	08/21/07	08/21/07	
Manganese	EPA 6010B	7H21073	0.79	0.99	**240**	0.99	08/21/07	08/21/07	
Mercury	EPA 7471A	7H28066	0.012	0.020	ND	1	08/28/07	08/28/07	
Molybdenum	EPA 6020	7H28132	0.40	5.0	J **0.46**	5	08/28/07	08/29/07	M2, RL1, J
Nickel	EPA 6020	7H28132	2.2	5.0	**8.6**	5	08/28/07	08/29/07	
Potassium	EPA 6010B	7H21073	19	50	**1800**	0.99	08/21/07	08/21/07	
Selenium	EPA 6020	7H28132	0.75	5.0	UJ ND	5	08/28/07	08/29/07	M2, RL1
Silver	EPA 6020	7H28132	0.50	2.5	ND	5	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H21073	24	50	**1100**	0.99	08/21/07	08/21/07	
Thallium	EPA 6020	7H28132	0.40	2.5	**0.45**	5	08/28/07	08/29/07	RL1, J
Vanadium	EPA 6020	7H28132	1.8	5.0	J **35**	5	08/28/07	08/29/07	M2
Zinc	EPA 6020	7H28132	6.5	50 (5)	U **30**	5	08/28/07	08/29/07	M2, RL1, J

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit		Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-30 (BGS-A2-58D - Soil)						**Sampled: 08/14/07**				
Reporting Units: mg/kg										
Aluminum	EPA 6010B	7H21073	5.0	9.9		**7500**	0.99	08/21/07	08/21/07	
Antimony	EPA 6010B	7H21073	0.87	9.9		ND	0.99	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28132	1.8	2.5	J	**4.1**	5	08/28/07	08/29/07	
Barium	EPA 6020	7H28132	0.65	2.5	J	**75**	5	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28132	0.20	1.5		**0.23**	5	08/28/07	08/30/07	RL1, J
Boron	EPA 6010B	7H21073	2.1	5.0	J	**6.4**	0.99	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28132	0.30	2.5		ND	5	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H21073	6.2	15		**8100**	0.99	08/21/07	08/21/07	
Chromium	EPA 6020	7H28132	1.8	5.0	J	**6.0**	5	08/28/07	08/29/07	
Cobalt	EPA 6020	7H28132	0.40	2.5		**4.6**	5	08/28/07	08/29/07	
Copper	EPA 6020	7H28132	1.9	5.0	J	**21**	5	08/28/07	08/29/07	
Iron	EPA 6010B	7H21073	1.5	5.0		**13000**	0.99	08/21/07	08/21/07	
Lead	EPA 6020	7H28132	0.25	2.5		**3.6**	5	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H21073	0.99	9.9		**3400**	0.99	08/21/07	08/21/07	
Manganese	EPA 6010B	7H21073	0.79	0.99		**170**	0.99	08/21/07	08/21/07	
Mercury	EPA 7471A	7H28066	0.012	0.020		ND	1	08/28/07	08/28/07	
Molybdenum	EPA 6020	7H28132	0.40	5.0	J	**0.55**	5	08/28/07	08/29/07	RL1, J
Nickel	EPA 6020	7H28132	2.2	5.0		**6.6**	5	08/28/07	08/29/07	
Potassium	EPA 6010B	7H21073	19	50		**1200**	0.99	08/21/07	08/21/07	
Selenium	EPA 6020	7H28132	0.75	5.0	J	ND	5	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28132	0.50	2.5		ND	5	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H21073	24	50		**800**	0.99	08/21/07	08/21/07	
Thallium	EPA 6020	7H28132	0.40	2.5		ND	5	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28132	1.8	5.0	J	**32**	5	08/28/07	08/29/07	
Zinc	EPA 6020	7H28132	6.5	50 (4)	U	**29**	5	08/28/07	08/29/07	RL1, J

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Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-31 (BGS-A2-59S - Soil)					**Sampled: 08/14/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H21073	5.0	10	**6800**	1	08/21/07	08/21/07	
Antimony	EPA 6010B	7H21073	0.88	10	ND	1	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28132	1.8	2.5	UJ ND	5	08/28/07	08/29/07	RL1
Barium	EPA 6020	7H28132	0.65	2.5	J **61**	5	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28132	0.20	1.5	**0.36**	5	08/28/07	08/30/07	RL1, J
Boron	EPA 6010B	7H21073	2.1	5.0	ND	1	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28132	0.30	2.5	ND	5	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H21073	6.2	15	**2800**	1	08/21/07	08/21/07	
Chromium	EPA 6020	7H28132	1.8	5.0	J **6.8**	5	08/28/07	08/29/07	
Cobalt	EPA 6020	7H28132	0.40	2.5	**6.3**	5	08/28/07	08/29/07	
Copper	EPA 6020	7H28132	1.9	5.0	J **42**	5	08/28/07	08/29/07	
Iron	EPA 6010B	7H21073	1.5	5.0	**11000**	1	08/21/07	08/21/07	
Lead	EPA 6020	7H28132	0.25	2.5	**4.4**	5	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H21073	1.0	10	**3300**	1	08/21/07	08/21/07	
Manganese	EPA 6010B	7H21073	0.80	1.0	**180**	1	08/21/07	08/21/07	
Mercury	EPA 7471A	7H28066	0.012	0.020	ND	1	08/28/07	08/28/07	
Molybdenum	EPA 6020	7H28132	0.40	5.0	UJ ND	5	08/28/07	08/29/07	RL1
Nickel	EPA 6020	7H28132	2.2	5.0	**8.0**	5	08/28/07	08/29/07	
Potassium	EPA 6010B	7H21073	19	50	**1800**	1	08/21/07	08/21/07	
Selenium	EPA 6020	7H28132	0.75	5.0	UJ ND	5	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28132	0.50	2.5	ND	5	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H21073	24	50	**92**	1	08/21/07	08/21/07	
Thallium	EPA 6020	7H28132	0.40	2.5	ND	5	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28132	1.8	5.0	J **38**	5	08/28/07	08/29/07	
Zinc	EPA 6020	7H28132	6.5	50 (5) U	**27**	5	08/28/07	08/29/07	RL1, J

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Project Manager

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17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-32 (BGS-A2-59D - Soil)					**Sampled: 08/14/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H21073	5.0	10	**5000**	0.995	08/21/07	08/21/07	
Antimony	EPA 6010B	7H21073	0.88	10	ND	0.995	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28132	1.8	2.5	UJ ND	5	08/28/07	08/29/07	RL1
Barium	EPA 6020	7H28132	0.65	2.5	~~J~~ **40** UJ	5	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28132	0.20	1.5	ND	5	08/28/07	08/30/07	RL1
Boron	EPA 6010B	7H21073	2.1	5.0	ND	0.995	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28132	0.30	2.5	ND	5	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H21073	6.2	15	**7700**	0.995	08/21/07	08/21/07	
Chromium	EPA 6020	7H28132	1.8	5.0	J **3.3**	5	08/28/07	08/29/07	RL1, J
Cobalt	EPA 6020	7H28132	0.40	2.5	**4.2**	5	08/28/07	08/29/07	
Copper	EPA 6020	7H28132	1.9	5.0	J **34**	5	08/28/07	08/29/07	
Iron	EPA 6010B	7H21073	1.5	5.0	**12000**	0.995	08/21/07	08/21/07	
Lead	EPA 6020	7H28132	0.25	2.5	**2.6**	5	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H21073	1.0	10	**3000**	0.995	08/21/07	08/21/07	
Manganese	EPA 6010B	7H21073	0.80	1.0	**140**	0.995	08/21/07	08/21/07	
Mercury	EPA 7471A	7H28066	0.012	0.020	ND	1	08/28/07	08/28/07	
Molybdenum	EPA 6020	7H28132	0.40	5.0	UJ ND	5	08/28/07	08/29/07	RL1
Nickel	EPA 6020	7H28132	2.2	5.0	**5.4**	5	08/28/07	08/29/07	
Potassium	EPA 6010B	7H21073	19	50	**900**	0.995	08/21/07	08/21/07	
Selenium	EPA 6020	7H28132	0.75	5.0	UJ ND	5	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28132	0.50	2.5	ND	5	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H21073	24	50	**96**	0.995	08/21/07	08/21/07	
Thallium	EPA 6020	7H28132	0.40	2.5	ND	5	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28132	1.8	5.0	J **35**	5	08/28/07	08/29/07	
Zinc	EPA 6020	7H28132	6.5	50 (J) U	**17**	5	08/28/07	08/29/07	RL1, J

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-33 (BGS-A2-60S - Soil)					**Sampled: 08/14/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H21073	5.0	9.9	**7600**	0.99	08/21/07	08/21/07	
Antimony	EPA 6010B	7H21073	0.87	9.9	ND	0.99	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28132	1.8	2.5	J **2.2**	5	08/28/07	08/29/07	RL1, J
Barium	EPA 6020	7H28132	0.65	2.5	J **89**	5	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28132	0.20	1.5	**0.38**	5	08/28/07	08/30/07	RL1, J
Boron	EPA 6010B	7H21073	2.1	5.0	J **3.4**	0.99	08/21/07	08/21/07	J
Cadmium	EPA 6020	7H28132	0.30	2.5	ND	5	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H21073	6.2	15	**3700**	0.99	08/21/07	08/21/07	
Chromium	EPA 6020	7H28132	1.8	5.0	J **9.7**	5	08/28/07	08/29/07	
Cobalt	EPA 6020	7H28132	0.40	2.5	**6.7**	5	08/28/07	08/29/07	
Copper	EPA 6020	7H28132	1.9	5.0	J **35**	5	08/28/07	08/29/07	
Iron	EPA 6010B	7H21073	1.5	5.0	**13000**	0.99	08/21/07	08/21/07	
Lead	EPA 6020	7H28132	0.25	2.5	**4.8**	5	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H21073	0.99	9.9	**3400**	0.99	08/21/07	08/21/07	
Manganese	EPA 6010B	7H21073	0.79	0.99	**180**	0.99	08/21/07	08/21/07	
Mercury	EPA 7471A	7H28066	0.012	0.020	ND	1	08/28/07	08/28/07	
Molybdenum	EPA 6020	7H28132	0.40	5.0	UJ ND	5	08/28/07	08/29/07	RL1
Nickel	EPA 6020	7H28132	2.2	5.0	**9.3**	5	08/28/07	08/29/07	
Potassium	EPA 6010B	7H21073	19	50	**1900**	0.99	08/21/07	08/21/07	
Selenium	EPA 6020	7H28132	0.75	5.0	UJ ND	5	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28132	0.50	2.5	ND	5	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H21073	24	50	**220**	0.99	08/21/07	08/21/07	
Thallium	EPA 6020	7H28132	0.40	2.5	ND	5	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28132	1.8	5.0	J **36**	5	08/28/07	08/29/07	
Zinc	EPA 6020	7H28132	6.5	50 (J) U	**32**	5	08/28/07	08/29/07	RL1, J

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
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Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-34 (BGS-A2-60D - Soil)					**Sampled: 08/14/07**				
Reporting Units: mg/kg									
Aluminum	EPA 6010B	7H21073	5.0	10	**9900**	1	08/21/07	08/21/07	
Antimony	EPA 6010B	7H21073	0.88	10	ND	1	08/21/07	08/21/07	
Arsenic	EPA 6020	7H28132	1.8	2.5	**4.4**	5	08/28/07	08/29/07	
Barium	EPA 6020	7H28132	0.65	2.5	**81**	5	08/28/07	08/29/07	
Beryllium	EPA 6020	7H28132	0.20	1.5	**0.36**	5	08/28/07	08/30/07	RL1, J
Boron	EPA 6010B	7H21073	2.1	5.0	**5.1**	1	08/21/07	08/21/07	
Cadmium	EPA 6020	7H28132	0.30	2.5	ND	5	08/28/07	08/29/07	RL1
Calcium	EPA 6010B	7H21073	6.2	15	**16000**	1	08/21/07	08/21/07	
Chromium	EPA 6020	7H28132	1.8	5.0	**8.5**	5	08/28/07	08/29/07	
Cobalt	EPA 6020	7H28132	0.40	2.5	**5.6**	5	08/28/07	08/29/07	
Copper	EPA 6020	7H28132	1.9	5.0	**32**	5	08/28/07	08/29/07	
Iron	EPA 6010B	7H21073	1.5	5.0	**17000**	1	08/21/07	08/21/07	
Lead	EPA 6020	7H28132	0.25	2.5	**3.6**	5	08/28/07	08/29/07	
Magnesium	EPA 6010B	7H21073	1.0	10	**4800**	1	08/21/07	08/21/07	
Manganese	EPA 6010B	7H21073	0.80	1.0	**180**	1	08/21/07	08/21/07	
Mercury	EPA 7471A	7H28066	0.012	0.020	ND	1	08/28/07	08/28/07	
Molybdenum	EPA 6020	7H28132	0.40	5.0	ND	5	08/28/07	08/29/07	RL1
Nickel	EPA 6020	7H28132	2.2	5.0	**8.3**	5	08/28/07	08/29/07	
Potassium	EPA 6010B	7H21073	19	50	**1600**	1	08/21/07	08/21/07	
Selenium	EPA 6020	7H28132	0.75	5.0	ND	5	08/28/07	08/29/07	RL1
Silver	EPA 6020	7H28132	0.50	2.5	ND	5	08/28/07	08/29/07	RL1
Sodium	EPA 6010B	7H21073	24	50	**180**	1	08/21/07	08/21/07	
Thallium	EPA 6020	7H28132	0.40	2.5	ND	5	08/28/07	08/29/07	RL1
Vanadium	EPA 6020	7H28132	1.8	5.0	**38**	5	08/28/07	08/29/07	
Zinc	EPA 6020	7H28132	6.5	50	U **25**	5	08/28/07	08/29/07	RL1, J

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-18 (BGS-A2-51E - Water)					**Sampled: 08/14/07**				
Reporting Units: mg/l									
Aluminum	EPA 6010B	7H27111	0.040	0.050	**0.20**	1	08/27/07	08/28/07	
Antimony	EPA 6010B	7H27111	0.0070	0.010	ND	1	08/27/07	08/28/07	
Boron	EPA 6010B	7H27111	0.020	0.050	**0.063**	1	08/27/07	08/28/07	
Calcium	EPA 6010B	7H31109	0.050	0.10	**0.20**	1	08/31/07	09/01/07	
Iron	EPA 6010B	7H27111	0.015	0.040	**0.30**	1	08/27/07	08/28/07	
Magnesium	EPA 6010B	7H27111	0.012	0.020	**0.19**	1	08/27/07	08/28/07	
Manganese	EPA 6010B	7H27111	0.0070	0.020	**0.036**	1	08/27/07	08/28/07	
Mercury	EPA 7470A	7H23070	0.00010	0.00020	ND	1	08/23/07	08/23/07	
Potassium	EPA 6010B	7H27111	0.37	0.50	ND	1	08/27/07	08/28/07	
Sodium	EPA 6010B	7H27111	0.19	0.50	ND	1	08/27/07	08/28/07	
Sample ID: IQH1759-42 (BGS-A2-67F - Water)					**Sampled: 08/16/07**				
Reporting Units: mg/l									
Aluminum	EPA 6010B	7H27111	0.040	0.050	ND	1	08/27/07	08/28/07	
Antimony	EPA 6010B	7H27111	0.0070	0.010	ND	1	08/27/07	08/28/07	
Boron	EPA 6010B	7H27111	0.020	0.050	**0.060**	1	08/27/07	08/28/07	
Calcium	EPA 6010B	7H31109	0.050	0.10	ND	1	08/31/07	09/01/07	
Iron	EPA 6010B	7H27111	0.015	0.040	ND	1	08/27/07	08/28/07	
Magnesium	EPA 6010B	7H27111	0.012	0.020	**0.023**	1	08/27/07	08/28/07	
Manganese	EPA 6010B	7H27111	0.0070	0.020	ND	1	08/27/07	08/28/07	
Mercury	EPA 7470A	7H23070	0.00010	0.00020	ND	1	08/23/07	08/23/07	
Potassium	EPA 6010B	7H27111	0.37	0.50	ND	1	08/27/07	08/28/07	
Sodium	EPA 6010B	7H27111	0.19	0.50	**0.21**	1	08/27/07	08/28/07	J
Sample ID: IQH1759-57 (BGS-A2-74E - Water)					**Sampled: 08/16/07**				
Reporting Units: mg/l									
Aluminum	EPA 6010B	7H27111	0.040	0.050	**0.087**	1	08/27/07	08/28/07	
Antimony	EPA 6010B	7H27111	0.0070	0.010	ND	1	08/27/07	08/28/07	
Boron	EPA 6010B	7H27111	0.020	0.050	**0.057**	1	08/27/07	08/28/07	
Calcium	EPA 6010B	7H31109	0.050	0.10	**0.22**	1	08/31/07	09/01/07	
Iron	EPA 6010B	7H27111	0.015	0.040	**0.051**	1	08/27/07	08/28/07	
Magnesium	EPA 6010B	7H27111	0.012	0.020	ND	1	08/27/07	08/28/07	
Manganese	EPA 6010B	7H27111	0.0070	0.020	ND	1	08/27/07	08/28/07	
Mercury	EPA 7470A	7H23070	0.00010	0.00020	ND	1	08/23/07	08/23/07	
Potassium	EPA 6010B	7H27111	0.37	0.50	ND	1	08/27/07	08/28/07	
Sodium	EPA 6010B	7H27111	0.19	0.50	ND	1	08/27/07	08/28/07	

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Brown and Caldwell - NV
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Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IQH1759-18 (BGS-A2-51E - Water)					**Sampled: 08/14/07**				
Reporting Units: ug/l									
Arsenic	EPA 6020	7H23106	0.70	1.0	ND	1	08/23/07	08/24/07	
Barium	EPA 6020	7H23106	0.25	1.0	**3.4**	1	08/23/07	08/24/07	
Beryllium	EPA 6020	7H23106	0.075	0.50	ND	1	08/23/07	08/24/07	
Cadmium	EPA 6020	7H23106	0.11	1.0	ND	1	08/23/07	08/24/07	
Chromium	EPA 6020	7H23106	0.70	2.0	ND	1	08/23/07	08/24/07	
Cobalt	EPA 6020	7H23106	0.15	1.0	ND	1	08/23/07	08/24/07	
Copper	EPA 6020	7H23106	0.75	2.0	**0.75**	1	08/23/07	08/24/07	J
Lead	EPA 6020	7H23106	0.10	1.0	ND	1	08/23/07	08/24/07	
Molybdenum	EPA 6020	7H23106	0.15	2.0	ND	1	08/23/07	08/24/07	
Nickel	EPA 6020	7H23106	0.90	2.0	ND	1	08/23/07	08/24/07	
Selenium	EPA 6020	7H23106	0.30	2.0	ND	1	08/23/07	08/24/07	
Silver	EPA 6020	7H23106	0.20	1.0	ND	1	08/23/07	08/24/07	
Thallium	EPA 6020	7H23106	0.15	1.0	ND	1	08/23/07	08/24/07	
Vanadium	EPA 6020	7H23106	0.70	2.0	ND	1	08/23/07	08/24/07	
Zinc	EPA 6020	7H23106	2.5	20	ND	1	08/23/07	08/24/07	
Sample ID: IQH1759-42 (BGS-A2-67F - Water)					**Sampled: 08/16/07**				
Reporting Units: ug/l									
Arsenic	EPA 6020	7H23106	0.70	1.0	ND	1	08/23/07	08/24/07	
Barium	EPA 6020	7H23106	0.25	1.0	ND	1	08/23/07	08/24/07	
Beryllium	EPA 6020	7H23106	0.075	0.50	ND	1	08/23/07	08/24/07	
Cadmium	EPA 6020	7H23106	0.11	1.0	ND	1	08/23/07	08/24/07	
Chromium	EPA 6020	7H23106	0.70	2.0	ND	1	08/23/07	08/24/07	
Cobalt	EPA 6020	7H23106	0.15	1.0	ND	1	08/23/07	08/24/07	
Copper	EPA 6020	7H23106	0.75	2.0	ND	1	08/23/07	08/24/07	
Lead	EPA 6020	7H23106	0.10	1.0	ND	1	08/23/07	08/24/07	
Molybdenum	EPA 6020	7H23106	0.15	2.0	ND	1	08/23/07	08/24/07	
Nickel	EPA 6020	7H23106	0.90	2.0	ND	1	08/23/07	08/24/07	
Selenium	EPA 6020	7H23106	0.30	2.0	ND	1	08/23/07	08/24/07	
Silver	EPA 6020	7H23106	0.20	1.0	ND	1	08/23/07	08/24/07	
Thallium	EPA 6020	7H23106	0.15	1.0	ND	1	08/23/07	08/24/07	
Vanadium	EPA 6020	7H23106	0.70	2.0	ND	1	08/23/07	08/24/07	
Zinc	EPA 6020	7H23106	2.5	20	ND	1	08/23/07	08/24/07	

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Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H20140 Extracted: 08/21/07											
Blank Analyzed: 08/21/2007 (7H20140-BLK1)											
Aluminum	ND	10	5.0	mg/kg							
Antimony	ND	10	0.88	mg/kg							
Boron	ND	5.0	2.1	mg/kg							
Calcium	61 12.2	15	6.2	mg/kg							J
Iron	ND	5.0	1.5	mg/kg							
Magnesium	10.4 2.09	10	1.0	mg/kg							J
Manganese	ND	1.0	0.80	mg/kg							
Potassium	183 36.6	50	19	mg/kg							J
Sodium	230.5 46.1	50	24	mg/kg							J
LCS Analyzed: 08/21/2007 (7H20140-BS1)											
Aluminum	53.7	10	5.0	mg/kg	50.0		107	80-120			
Antimony	46.9	10	0.88	mg/kg	50.0		94	80-120			
Boron	56.1	5.0	2.1	mg/kg	50.0		112	80-120			
Calcium	266	15	6.2	mg/kg	250		106	80-120			
Iron	50.8	5.0	1.5	mg/kg	50.0		102	80-120			
Magnesium	257	10	1.0	mg/kg	250		103	80-120			
Manganese	48.8	1.0	0.80	mg/kg	50.0		98	80-120			
Potassium	554	50	19	mg/kg	500		111	80-120			
Sodium	535	50	24	mg/kg	500		107	80-120			
Matrix Spike Analyzed: 08/21/2007 (7H20140-MS1)						**Source: IQH1759-01**					
Aluminum	14900	10	5.0	mg/kg	50.0	10600	8510	75-125			*MHA* >4x
Antimony	41.4	10	0.88	mg/kg	50.0	ND	83	75-125			
Boron	58.0	5.0	2.1	mg/kg	50.0	19.4	77	75-125			
Calcium	6080	15	6.2	mg/kg	250	5070	403	75-125			*MHA*
Iron	13900	5.0	1.5	mg/kg	50.0	13100	1560	75-125			*MHA*
Magnesium	4510	10	1.0	mg/kg	250	3980	212	75-125			*MHA*
Manganese	432	1.0	0.80	mg/kg	50.0	374	116	75-125			
Potassium	3520	50	19	mg/kg	500	2490	205	75-125			*MHA*
Sodium	1190	50	24	mg/kg	500	566	125	75-125			

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Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H20140 Extracted: 08/21/07											
Matrix Spike Dup Analyzed: 08/21/2007 (7H20140-MSD1)						**Source: IQH1759-01**					
Aluminum	13900	10	5.0	mg/kg	50.0	10600	6660	75-125	6	20	*MHA* >4x
Antimony	40.2	10	0.88	mg/kg	50.0	ND	80	75-125	3	20	
Boron	64.5	5.0	2.1	mg/kg	50.0	19.4	90	75-125	11	20	
Calcium	5640	15	6.2	mg/kg	250	5070	229	75-125	7	20	*MHA*
Iron	14100	5.0	1.5	mg/kg	50.0	13100	2020	75-125	2	20	*MHA*
Magnesium	4550	10	1.0	mg/kg	250	3980	229	75-125	1	20	*MHA*
Manganese	433	1.0	0.80	mg/kg	50.0	374	119	75-125	0	20	
Potassium	3410	50	19	mg/kg	500	2490	185	75-125	3	20	*MHA*
Sodium	1230	50	24	mg/kg	500	566	133	75-125	3	20	*M1*
Batch: 7H21073 Extracted: 08/21/07											
Blank Analyzed: 08/21/2007 (7H21073-BLK1)											
Aluminum	ND	10	5.0	mg/kg							
Antimony	ND	10	0.88	mg/kg							
Boron	ND	5.0	2.1	mg/kg							
Calcium	63 12.6	15	6.2	mg/kg							*J*
Iron	ND	5.0	1.5	mg/kg							
Magnesium	7 1.41	10	1.0	mg/kg							*J*
Manganese	ND	1.0	0.80	mg/kg							
Potassium	ND	50	19	mg/kg							
Sodium	ND	50	24	mg/kg							
LCS Analyzed: 08/21/2007 (7H21073-BS1)											
Aluminum	48.9	10	5.0	mg/kg	50.0		98	80-120			
Antimony	46.8	10	0.88	mg/kg	50.0		94	80-120			
Boron	49.3	5.0	2.1	mg/kg	50.0		99	80-120			
Calcium	249	15	6.2	mg/kg	250		99	80-120			
Iron	50.2	5.0	1.5	mg/kg	50.0		100	80-120			
Magnesium	246	10	1.0	mg/kg	250		98	80-120			
Manganese	48.4	1.0	0.80	mg/kg	50.0		97	80-120			
Potassium	543	50	19	mg/kg	500		109	80-120			
Sodium	472	50	24	mg/kg	500		94	80-120			

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H21073 Extracted: 08/21/07											
Matrix Spike Analyzed: 08/21/2007 (7H21073-MS1)						**Source: IQH1759-40**					
Aluminum	12800	10	5.0	mg/kg	49.8	11100	3340	75-125			*MHA* >4x
Antimony	33.5	10	0.88	mg/kg	49.8	ND	67	75-125			*M2*
Boron	50.7	5.0	2.1	mg/kg	49.8	5.83	90	75-125			
Calcium	29100	15	6.2	mg/kg	249	21000	3240	75-125			*MHA*
Iron	17400	5.0	1.5	mg/kg	49.8	16100	2580	75-125			*MHA*
Magnesium	6110	10	1.0	mg/kg	249	4960	462	75-125			*MHA*
Manganese	260	1.0	0.80	mg/kg	49 8	183	155	75-125			*M1*
Potassium	2770	50	19	mg/kg	498	2130	129	75-125			*MHA*
Sodium	682	50	24	mg/kg	498	206	96	75-125			
Matrix Spike Dup Analyzed: 08/21/2007 (7H21073-MSD1)						**Source: IQH1759-40**					
Aluminum	12800	10	5.0	mg/kg	49.8	11100	3260	75-125	0	20	*MHA* >4x
Antimony	33.3	10	0.88	mg/kg	49.8	ND	67	75-125	1	20	*M2*
Boron	50.3	5.0	2.1	mg/kg	49.8	5.83	89	75-125	1	20	
Calcium	25700	15	6.2	mg/kg	249	21000	1880	75-125	12	20	*MHA*
Iron	18800	5.0	1.5	mg/kg	49.8	16100	5450	75-125	8	20	*MHA*
Magnesium	5750	10	1 0	mg/kg	249	4960	317	75-125	6	20	*MHA*
Manganese	242	1.0	0.80	mg/kg	49.8	183	119	75-125	7	20	
Potassium	2780	50	19	mg/kg	498	2130	130	75-125	0	20	*MHA*
Sodium	670	50	24	mg/kg	498	206	93	75-125	2	20	
Batch: 7H21075 Extracted: 08/21/07											
Blank Analyzed: 08/21/2007 (7H21075-BLK1)											
Aluminum	25.6	5.12	10	5.0	mg/kg						*J*
Antimony		ND	10	0.88	mg/kg						
Boron		ND	5.0	2.1	mg/kg						
Calcium	135	27.0	15	6.2	mg/kg						*B-1*
Iron	53.5	10.7	5.0	1.5	mg/kg						*B-1*
Magnesium	10.5	2.10	10	1.0	mg/kg						*J*
Manganese		ND	1.0	0.80	mg/kg						
Potassium		ND	50	19	mg/kg						
Sodium		ND	50	24	mg/kg						

This batch is not associated with Level IV samples

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Report Number: IQH1759

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Received: 08/18/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H21075 Extracted: 08/21/07											
LCS Analyzed: 08/22/2007 (7H21075-BS1)											
Aluminum	51.5	10	5.0	mg/kg	50.0		103	80-120			
Antimony	50.3	10	0 88	mg/kg	50.0		101	80-120			
Boron	51.7	5.0	2.1	mg/kg	50.0		103	80-120			
Calcium	269	15	6.2	mg/kg	250		108	80-120			
Iron	54.2	5.0	1.5	mg/kg	50.0		108	80-120			
Magnesium	257	10	1.0	mg/kg	250		103	80-120			
Manganese	51.2	1.0	0.80	mg/kg	50.0		102	80-120			
Potassium	515	50	19	mg/kg	500		103	80-120			
Sodium	514	50	24	mg/kg	500		103	80-120			
Matrix Spike Analyzed: 08/21/2007 (7H21075-MS1)						**Source: IQH1759-56**					
Aluminum	8330	10	5.0	mg/kg	50.0	9140	-1610	75-125			*MHA* >4x
Antimony	40.1	10	0.88	mg/kg	50.0	ND	80	75-125			
Boron	70.4	5.0	2.1	mg/kg	50.0	26.5	88	75-125			
Calcium	31000	15	6.2	mg/kg	250	33100	-864	75-125			*MHA*
Iron	13300	5.0	1.5	mg/kg	50.0	14300	-2010	75-125			*MHA*
Magnesium	6240	10	1.0	mg/kg	250	6720	-190	75-125			*MHA*
Manganese	193	1.0	0.80	mg/kg	50.0	170	45	75-125			~~*MHA*~~
Potassium	1430	50	19	mg/kg	500	1230	39	75-125			~~*MHA*~~
Sodium	2310	50	24	mg/kg	500	1990	65	75-125			*M2*
Matrix Spike Dup Analyzed: 08/21/2007 (7H21075-MSD1)						**Source: IQH1759-56**					
Aluminum	8940	10	5.0	mg/kg	50.0	9140	-407	75-125	7	20	*MHA* >4x
Antimony	39.8	10	0.88	mg/kg	50.0	ND	80	75-125	1	20	
Boron	70.1	5.0	2.1	mg/kg	50.0	26.5	87	75-125	0	20	
Calcium	32700	15	6.2	mg/kg	250	33100	-168	75-125	5	20	*MHA*
Iron	13700	5.0	1.5	mg/kg	50.0	14300	-1100	75-125	3	20	*MHA*
Magnesium	6450	10	1.0	mg/kg	250	6720	-109	75-125	3	20	*MHA*
Manganese	198	1.0	0.80	mg/kg	50.0	170	55	75-125	3	20	~~*MHA*~~
Potassium	1560	50	19	mg/kg	500	1230	66	75-125	9	20	~~*MHA*~~
Sodium	2400	50	24	mg/kg	500	1990	83	75-125	4	20	

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H23070 Extracted: 08/23/07											
Blank Analyzed: 08/23/2007 (7H23070-BLK1)											
Mercury	ND	0.00020	0.00010	mg/l							
LCS Analyzed: 08/23/2007 (7H23070-BS1)											
Mercury	0.00810	0.00020	0.00010	mg/l	0.00800		101	90-115			
Matrix Spike Analyzed: 08/23/2007 (7H23070-MS1)						**Source: IQH2089-06**					
Mercury	0.00876	0.00020	0.00010	mg/l	0.00800	ND	109	75-120	Batch		
Matrix Spike Dup Analyzed: 08/23/2007 (7H23070-MSD1)						**Source: IQH2089-06**					
Mercury	0.00874	0.00020	0.00010	mg/l	0.00800	ND	109	75-120	0	20	
Batch: 7H23106 Extracted: 08/23/07											
Blank Analyzed: 08/24/2007 (7H23106-BLK1)											
Arsenic	ND	1.0	0.70	ug/l							
Barium	ND	1.0	0.25	ug/l							
Beryllium	ND	0.50	0.075	ug/l							
Cadmium	ND	1.0	0.11	ug/l							
Chromium	ND	2.0	0.70	ug/l							
Cobalt	ND	1.0	0.15	ug/l							
Copper	ND	2.0	0.75	ug/l							
Lead	ND	1.0	0.10	ug/l							
Molybdenum	ND	2.0	0.15	ug/l							
Nickel	ND	2.0	0.90	ug/l							
Selenium	ND	2.0	0.30	ug/l							
Silver	ND	1.0	0.20	ug/l							
Thallium	ND	1.0	0.15	ug/l							
Vanadium	ND	2.0	0.70	ug/l							
Zinc	ND	20	2.5	ug/l							

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H23106 Extracted: 08/23/07											
LCS Analyzed: 08/24/2007 (7H23106-BS1)											
Arsenic	81.4	1.0	0.70	ug/l	80.0		102	80-120			
Barium	82.8	1.0	0.25	ug/l	80.0		103	80-120			
Beryllium	85.8	0.50	0.075	ug/l	80.0		107	80-120			
Cadmium	81.9	1.0	0.11	ug/l	80.0		102	80-120			
Chromium	82.6	2.0	0.70	ug/l	80.0		103	80-120			
Cobalt	82.9	1.0	0.15	ug/l	80.0		104	80-120			
Copper	82.8	2.0	0.75	ug/l	80.0		104	80-120			
Lead	83.6	1.0	0.10	ug/l	80.0		104	80-120			
Molybdenum	80.9	2.0	0.15	ug/l	80.0		101	80-120			
Nickel	83.3	2.0	0.90	ug/l	80.0		104	80-120			
Selenium	77.5	2.0	0.30	ug/l	80.0		97	80-120			
Silver	79.9	1.0	0.20	ug/l	80.0		100	80-120			
Thallium	84.2	1.0	0.15	ug/l	80.0		105	80-120			
Vanadium	83.5	2.0	0.70	ug/l	80.0		104	80-120			
Zinc	80.9	20	2.5	ug/l	80.0		101	80-120			
Matrix Spike Analyzed: 08/24/2007 (7H23106-MS1)						**Source: IQH1349-02**					
Arsenic	83.0	1.0	0.70	ug/l	80.0	0.883	103	75-125			
Barium	134	1.0	0.25	ug/l	80.0	45.2	111	75-125			
Beryllium	85.1	0.50	0.075	ug/l	80.0	ND	106	75-125			
Cadmium	81.8	1.0	0.11	ug/l	80.0	ND	102	75-125			
Chromium	83.7	2.0	0.70	ug/l	80.0	0.881	104	75-125			
Cobalt	81.4	1.0	0 15	ug/l	80.0	0.185	102	75-125			
Copper	88.0	2.0	0.75	ug/l	80.0	12.0	95	75-125			
Lead	82.9	1.0	0.10	ug/l	80.0	2.08	101	75-125			
Molybdenum	88.0	2.0	0 15	ug/l	80.0	2.51	107	75-125			
Nickel	80.3	2.0	0.90	ug/l	80.0	1.22	99	75-125			
Selenium	77.9	2.0	0.30	ug/l	80.0	1.22	96	75-125			
Silver	76.0	1.0	0.20	ug/l	80.0	ND	95	75-125			
Thallium	83.3	1.0	0.15	ug/l	80.0	ND	104	75-125			
Vanadium	87.6	2.0	0.70	ug/l	80.0	0.977	108	75-125			
Zinc	97.7	20	2.5	ug/l	80.0	26.4	89	75-125			

Batch

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132039
Report Number: IQH1759

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Received: 08/18/07

METHOD BLANK/QC DATA

batch not assoc. with L4

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H23106 Extracted: 08/23/07											
Matrix Spike Dup Analyzed: 08/24/2007 (7H23106-MSD1)						**Source: IQH1349-02**					Batch
Arsenic	83.4	1.0	0.70	ug/l	80.0	0.883	103	75-125	0	20	
Barium	134	1.0	0.25	ug/l	80.0	45.2	111	75-125	1	20	
Beryllium	86.0	0.50	0.075	ug/l	80.0	ND	107	75-125	1	20	
Cadmium	81.2	1.0	0.11	ug/l	80.0	ND	101	75-125	1	20	
Chromium	84.7	2.0	0.70	ug/l	80.0	0.881	105	75-125	1	20	
Cobalt	82.7	1.0	0.15	ug/l	80.0	0.185	103	75-125	2	20	
Copper	89.4	2.0	0.75	ug/l	80.0	12.0	97	75-125	2	20	
Lead	82.5	1.0	0.10	ug/l	80.0	2.08	100	75-125	1	20	
Molybdenum	88.1	2.0	0.15	ug/l	80.0	2.51	107	75-125	0	20	
Nickel	82.0	2.0	0.90	ug/l	80.0	1.22	101	75-125	2	20	
Selenium	78.2	2.0	0.30	ug/l	80.0	1.22	96	75-125	1	20	
Silver	76.6	1.0	0.20	ug/l	80.0	ND	96	75-125	1	20	
Thallium	82.2	1.0	0.15	ug/l	80.0	ND	103	75-125	1	20	
Vanadium	88.1	2.0	0 70	ug/l	80.0	0.977	109	75-125	1	20	
Zinc	98.2	20	2.5	ug/l	80.0	26.4	90	75-125	1	20	
Batch: 7H24146 Extracted: 08/24/07											
Blank Analyzed: 08/25/2007 (7H24146-BLK1)											
Arsenic	ND	0.50	0.35	mg/kg							
Barium	ND	0.50	0.13	mg/kg							
Beryllium	ND	0.30	0.040	mg/kg							
Cadmium	ND	0.50	0.060	mg/kg							
Chromium	2.95 0.590	1.0	0.35	mg/kg							J
Cobalt	ND	0.50	0.080	mg/kg							
Copper	ND	1.0	0.38	mg/kg							
Lead	ND	0.50	0 050	mg/kg							
Molybdenum	ND	1.0	0.080	mg/kg							
Nickel	ND	1.0	0.45	mg/kg							
Selenium	ND	1.0	0.15	mg/kg							
Silver	ND	0.50	0.10	mg/kg							
Thallium	ND	0.50	0.080	mg/kg							
Vanadium	ND	1.0	0.35	mg/kg							
Zinc	ND	10	1.3	mg/kg							

dilution
x5 = 14.75

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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H24146 Extracted: 08/24/07											
LCS Analyzed: 08/25/2007 (7H24146-BS1)											
Arsenic	49.3	0.50	0.35	mg/kg	50.0		99	80-120			
Barium	48.7	0.50	0.13	mg/kg	50.0		97	80-120			
Beryllium	52.1	0.30	0.040	mg/kg	50.0		104	80-120			
Cadmium	49.8	0.50	0.060	mg/kg	50.0		100	80-120			
Chromium	51.3	1.0	0.35	mg/kg	50.0		103	80-120			
Cobalt	52.7	0.50	0.080	mg/kg	50.0		105	80-120			
Copper	55.6	1.0	0.38	mg/kg	50.0		111	80-120			
Lead	54.6	0.50	0.050	mg/kg	50.0		109	80-120			
Molybdenum	50.1	1.0	0.080	mg/kg	50.0		100	80-120			
Nickel	53.3	1.0	0.45	mg/kg	50.0		107	80-120			
Selenium	45.9	1.0	0.15	mg/kg	50.0		92	80-120			
Silver	25.6	0.50	0.10	mg/kg	25.0		102	80-120			
Thallium	53.7	0.50	0.080	mg/kg	50.0		107	80-120			
Vanadium	48.4	1.0	0.35	mg/kg	50.0		97	80-120			
Zinc	50.9	10	1.3	mg/kg	50.0		102	80-120			
Matrix Spike Analyzed: 08/25/2007 (7H24146-MS1)						**Source: IQH1759-01**					
Arsenic	48.4	2.5	1.8	mg/kg	50.0	3.94	89	75-125			
Barium	135	2.5	0.65	mg/kg	50.0	83.1	104	75-125			
Beryllium	46.6	1.5	0.20	mg/kg	50.0	0.555	92	75-125			
Cadmium	46.1	2.5	0.30	mg/kg	50.0	ND	92	75-125			
Chromium	53.0	5.0	1.8	mg/kg	50.0	6.48	93	75-125			
Cobalt	52.0	2.5	0.40	mg/kg	50.0	4.17	96	75-125			
Copper	62.3	5.0	1.9	mg/kg	50.0	13.3	98	75-125			
Lead	57.7	2.5	0.25	mg/kg	50.0	9.44	97	75-125			
Molybdenum	43.8	5.0	0.40	mg/kg	50.0	0.475	87	75-125			
Nickel	50.6	5.0	2.2	mg/kg	50.0	4.38	93	75-125			
Selenium	45.2	5.0	0.75	mg/kg	50.0	ND	90	75-125			
Silver	22.7	2.5	0.50	mg/kg	25.0	ND	91	75-125			
Thallium	51.7	2.5	0.40	mg/kg	50.0	0.522	102	75-125			
Vanadium	71.8	5.0	1.8	mg/kg	50.0	24.0	96	75-125			
Zinc	83.1	50	6.5	mg/kg	50.0	34.3	98	75-125			

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Brown and Caldwell - NV
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Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H24146 Extracted: 08/24/07											
Matrix Spike Dup Analyzed: 08/25/2007 (7H24146-MSD1)						**Source: IQH1759-01**					
Arsenic	48.8	2.5	1.8	mg/kg	50.0	3.94	90	75-125	1	20	
Barium	131	2.5	0.65	mg/kg	50.0	83.1	96	75-125	3	20	
Beryllium	48.0	1.5	0.20	mg/kg	50.0	0.555	95	75-125	3	20	
Cadmium	46.5	2.5	0.30	mg/kg	50.0	ND	93	75-125	1	20	
Chromium	53.7	5.0	1.8	mg/kg	50.0	6.48	94	75-125	1	20	
Cobalt	52.1	2.5	0.40	mg/kg	50.0	4.17	96	75-125	0	20	
Copper	61.4	5.0	1.9	mg/kg	50.0	13.3	96	75-125	1	20	
Lead	57.9	2.5	0.25	mg/kg	50.0	9.44	97	75-125	0	20	
Molybdenum	43.5	5.0	0.40	mg/kg	50.0	0.475	86	75-125	1	20	
Nickel	50.6	5.0	2.2	mg/kg	50.0	4.38	92	75-125	0	20	
Selenium	46.0	5.0	0.75	mg/kg	50.0	ND	92	75-125	2	20	
Silver	23.2	2.5	0.50	mg/kg	25.0	ND	93	75-125	2	20	
Thallium	51.7	2.5	0.40	mg/kg	50.0	0.522	102	75-125	0	20	
Vanadium	69.1	5.0	1.8	mg/kg	50.0	24.0	90	75-125	4	20	
Zinc	80.0	50	6.5	mg/kg	50.0	34.3	91	75-125	4	20	
Batch: 7H27086 Extracted: 08/27/07											
Blank Analyzed: 08/27/2007 (7H27086-BLK1)											
Mercury	ND	0.020	0.012	mg/kg							
LCS Analyzed: 08/27/2007 (7H27086-BS1)											
Mercury	0.736	0.020	0.012	mg/kg	0.800		92	85-120			
Matrix Spike Analyzed: 08/27/2007 (7H27086-MS1)						**Source: IQH1759-01**					
Mercury	0.910	0.020	0.012	mg/kg	0.800	0.0185	111	65-135			

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Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H27086 Extracted: 08/27/07											
Matrix Spike Dup Analyzed: 08/27/2007 (7H27086-MSD1)						**Source: IQH1759-01**					
Mercury	0.936	0.020	0.012	mg/kg	0.800	0.0185	115	65-135	3	20	
Batch: 7H27111 Extracted: 08/27/07											
Blank Analyzed: 08/28/2007 (7H27111-BLK1)											
Aluminum	ND	0.050	0.040	mg/l							
Antimony	ND	0.010	0.0070	mg/l							
Boron	ND	0.050	0.020	mg/l							
Calcium	0.87 0.174	0.10	0.050	mg/l		assoc. with blanks					B-1
Iron	ND	0.040	0.015	mg/l							
Magnesium	ND	0.020	0.012	mg/l							
Manganese	ND	0.020	0.0070	mg/l							
Potassium	ND	0.50	0.37	mg/l							
Sodium	ND	0.50	0 19	mg/l							
LCS Analyzed: 08/28/2007 (7H27111-BS1)											
Aluminum	0.980	0.050	0.040	mg/l	1.00		98	80-120			
Antimony	0.979	0.010	0.0070	mg/l	1.00		98	80-120			
Boron	0.998	0.050	0.020	mg/l	1.00		100	80-120			
Calcium	5.50	0.10	0.050	mg/l	5.00		110	80-120			
Iron	1.01	0.040	0.015	mg/l	1.00		101	80-120			
Magnesium	5.00	0.020	0.012	mg/l	5.00		100	80-120			
Manganese	0.984	0.020	0.0070	mg/l	1.00		98	80-120			
Potassium	10.1	0.50	0.37	mg/l	10.0		101	80-120			
Sodium	9.92	0.50	0.19	mg/l	10.0		99	80-120			
Matrix Spike Analyzed: 08/28/2007 (7H27111-MS1)						**Source: IQH1759-18**					
Aluminum	1.12	0.050	0.040	mg/l	1.00	0.199	92	75-125			
Antimony	0.978	0.010	0.0070	mg/l	1.00	ND	98	75-125			
Boron	1.07	0.050	0.020	mg/l	1.00	0.0626	101	75-125			
Calcium	5.72	0.10	0.050	mg/l	5.00	1.26	89	75-125			
Iron	1.16	0.040	0.015	mg/l	1.00	0.300	86	75-125			
Magnesium	5.19	0.020	0.012	mg/l	5.00	0.185	100	75-125			
Manganese	1.01	0.020	0.0070	mg/l	1.00	0.0365	97	75-125			
Potassium	10.0	0.50	0.37	mg/l	10.0	ND	100	75-125			
Sodium	9.96	0.50	0.19	mg/l	10.0	ND	100	75-125			

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132039
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Sampled: 08/14/07-08/16/07
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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H27111 Extracted: 08/27/07											
Matrix Spike Analyzed: 08/28/2007 (7H27111-MS2)						**Source: IQH1759-18RE1**					
Calcium	5.72	0.10	0.050	mg/l	5.00	1.26	89	75-125			
Matrix Spike Dup Analyzed: 08/28/2007 (7H27111-MSD1)						**Source: IQH1759-18**					
Aluminum	1.11	0.050	0.040	mg/l	1.00	0.199	91	75-125	1	20	
Antimony	0.991	0.010	0.0070	mg/l	1.00	ND	99	75-125	1	20	
Boron	1.06	0.050	0.020	mg/l	1.00	0.0626	100	75-125	1	20	
Calcium	5.54	0.10	0.050	mg/l	5.00	1.26	86	75-125	3	20	
Iron	1.15	0.040	0.015	mg/l	1.00	0.300	85	75-125	1	20	
Magnesium	5.15	0.020	0.012	mg/l	5.00	0.185	99	75-125	1	20	
Manganese	1.00	0.020	0.0070	mg/l	1.00	0.0365	97	75-125	1	20	
Potassium	10.2	0.50	0.37	mg/l	10.0	ND	102	75-125	2	20	
Sodium	10.3	0.50	0 19	mg/l	10.0	ND	103	75-125	3	20	
Matrix Spike Dup Analyzed: 08/28/2007 (7H27111-MSD2)						**Source: IQH1759-18RE1**					
Calcium	5.54	0.10	0.050	mg/l	5.00	1.26	86	75-125	3	20	
Batch: 7H28066 Extracted: 08/28/07											
Blank Analyzed: 08/28/2007 (7H28066-BLK1)											
Mercury	ND	0.020	0.012	mg/kg							
LCS Analyzed: 08/28/2007 (7H28066-BS1)											
Mercury	0.876	0.020	0.012	mg/kg	0.800		110	85-120			
Matrix Spike Analyzed: 08/28/2007 (7H28066-MS1)						**Source: IQH1759-27**					
Mercury	1.05	0.020	0.012	mg/kg	0.800	ND	132	65-135			

no t's
no, mpact.

70-130%.

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Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H28066 Extracted: 08/28/07											
Matrix Spike Dup Analyzed: 08/28/2007 (7H28066-MSD1)						**Source: IQH1759-27**					
Mercury	1.04	0.020	0.012	mg/kg	0.800	ND	130	65-135	1	20	
Batch: 7H28067 Extracted: 08/28/07											
batch not assoc. with L4 samples											
Blank Analyzed: 08/28/2007 (7H28067-BLK1)											
Mercury	ND	0.020	0.012	mg/kg							
LCS Analyzed: 08/28/2007 (7H28067-BS1)											
Mercury	0.900	0.020	0.012	mg/kg	0.800		113	85-120			
Matrix Spike Analyzed: 08/28/2007 (7H28067-MS1)						**Source: IQH1759-40**					
Mercury	1.07	0.020	0.012	mg/kg	0.800	ND	134	65-135			
Matrix Spike Dup Analyzed: 08/28/2007 (7H28067-MSD1)						**Source: IQH1759-40**					
Mercury	1.09	0.020	0.012	mg/kg	0.800	ND	137	65-135	2	20	*MI*
Batch: 7H28101 Extracted: 08/28/07											
Blank Analyzed: 08/29/2007 (7H28101-BLK1)											
Arsenic	ND	0.50	0.35	mg/kg							
Barium	ND	0.50	0.13	mg/kg							
Beryllium	ND	0.30	0.040	mg/kg							
Cadmium	ND	0.50	0.060	mg/kg							
Chromium	ND	1.0	0.35	mg/kg							
Cobalt	ND	0.50	0.080	mg/kg							
Copper	ND	1.0	0.38	mg/kg							
Lead	ND	0.50	0.050	mg/kg							
Molybdenum	ND	1.0	0.080	mg/kg							
Nickel	ND	1.0	0.45	mg/kg							
Selenium	ND	1.0	0.15	mg/kg							
Silver	ND	0.50	0.10	mg/kg							
Thallium	ND	0.50	0.080	mg/kg							
Vanadium	ND	1 0	0.35	mg/kg							
Zinc	ND	10	1.3	mg/kg							

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Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H28101 Extracted: 08/28/07											
LCS Analyzed: 08/29/2007 (7H28101-BS1)											
Arsenic	44.5	0.50	0.35	mg/kg	50.0		89	80-120			
Barium	50.5	0.50	0.13	mg/kg	50.0		101	80-120			
Beryllium	50.0	0.30	0.040	mg/kg	50.0		100	80-120			
Cadmium	49.2	0.50	0.060	mg/kg	50.0		98	80-120			
Chromium	45.7	1.0	0.35	mg/kg	50.0		91	80-120			
Cobalt	44.5	0.50	0.080	mg/kg	50.0		89	80-120			
Copper	44.7	1.0	0.38	mg/kg	50.0		89	80-120			
Lead	47.6	0.50	0.050	mg/kg	50.0		95	80-120			
Molybdenum	46.3	1.0	0.080	mg/kg	50.0		93	80-120			
Nickel	44.0	1.0	0 45	mg/kg	50.0		88	80-120			
Selenium	44.2	1.0	0.15	mg/kg	50.0		88	80-120			
Silver	24.6	0.50	0.10	mg/kg	25.0		98	80-120			
Thallium	47.3	0.50	0.080	mg/kg	50.0		95	80-120			
Vanadium	44.8	1.0	0.35	mg/kg	50.0		90	80-120			
Zinc	44.4	10	1.3	mg/kg	50.0		89	80-120			
Matrix Spike Analyzed: 08/29/2007 (7H28101-MS1)						**Source: IQH1759-04**					
Arsenic	45.1	2.5	1.8	mg/kg	50.0	ND	90	75-125			
Barium	111	2.5	0.65	mg/kg	50.0	56.2	110	75-125			
Beryllium	49.5	1.5	0.20	mg/kg	50.0	0.285	98	75-125			
Cadmium	48.0	2.5	0.30	mg/kg	50.0	ND	96	75-125			
Chromium	48.4	5.0	1.8	mg/kg	50.0	3.74	89	75-125			
Cobalt	46.5	2.5	0.40	mg/kg	50.0	2.88	87	75-125			
Copper	53.5	5.0	1.9	mg/kg	50.0	9.24	89	75-125			
Lead	50.6	2.5	0.25	mg/kg	50.0	3.89	93	75-125			
Molybdenum	43.4	5.0	0.40	mg/kg	50.0	ND	87	75-125			
Nickel	45.9	5.0	2.2	mg/kg	50.0	3.32	85	75-125			
Selenium	46.1	5.0	0.75	mg/kg	50.0	ND	92	75-125			
Silver	23.4	2.5	0.50	mg/kg	25.0	ND	94	75-125			
Thallium	47.9	2.5	0.40	mg/kg	50.0	0.452	95	75-125			
Vanadium	64.1	5.0	1.8	mg/kg	50.0	20.2	88	75-125			
Zinc	63.0	50	6.5	mg/kg	50.0	17.4	91	75-125			

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Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H28101 Extracted: 08/28/07											
Matrix Spike Dup Analyzed: 08/29/2007 (7H28101-MSD1)						**Source: IQH1759-04**					
Arsenic	43.8	2.5	1.8	mg/kg	50.0	ND	88	75-125	3	20	
Barium	117	2.5	0.65	mg/kg	50.0	56.2	122	75-125	5	20	
Beryllium	47.8	1.5	0.20	mg/kg	50.0	0.285	95	75-125	4	20	
Cadmium	47.3	2.5	0.30	mg/kg	50.0	ND	95	75-125	2	20	
Chromium	48.1	5.0	1.8	mg/kg	50.0	3.74	89	75-125	1	20	
Cobalt	46.9	2.5	0.40	mg/kg	50.0	2.88	88	75-125	1	20	
Copper	53.0	5.0	1.9	mg/kg	50.0	9.24	88	75-125	1	20	
Lead	51.2	2.5	0.25	mg/kg	50.0	3.89	95	75-125	1	20	
Molybdenum	43.1	5.0	0.40	mg/kg	50.0	ND	86	75-125	1	20	
Nickel	46.2	5.0	2.2	mg/kg	50.0	3.32	86	75-125	1	20	
Selenium	45.8	5.0	0.75	mg/kg	50.0	ND	92	75-125	1	20	
Silver	23.2	2.5	0.50	mg/kg	25.0	ND	93	75-125	1	20	
Thallium	48.2	2.5	0.40	mg/kg	50.0	0.452	95	75-125	0	20	
Vanadium	63.9	5.0	1 8	mg/kg	50.0	20.2	88	75-125	0	20	
Zinc	63.8	50	6.5	mg/kg	50.0	17.4	93	75-125	1	20	
Batch: 7H28132 Extracted: 08/28/07											
Blank Analyzed: 08/29/2007-08/30/2007 (7H28132-BLK1)											
Arsenic	ND	0.50	0.35	mg/kg							
Barium	ND	0.50	0 13	mg/kg							
Beryllium	ND	0.30	0.040	mg/kg							
Cadmium	ND	0.50	0.060	mg/kg							
Chromium	ND	1.0	0.35	mg/kg							
Cobalt	ND	0.50	0.080	mg/kg							
Copper	ND	1.0	0.38	mg/kg							
Lead	ND	0.50	0 050	mg/kg							
Molybdenum	ND	1.0	0.080	mg/kg							
Nickel	ND	1.0	0.45	mg/kg							
Selenium	ND	1.0	0.15	mg/kg							
Silver	ND	0.50	0.10	mg/kg							
Thallium	ND	0.50	0.080	mg/kg							
Vanadium	ND	1.0	0.35	mg/kg							
Zinc	12.6 2.52	10	1.3	mg/kg							J

1 x 5 dilution = 63

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132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METHOD BLANK/QC DATA

METALS

17-34

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H28132 Extracted: 08/28/07											
Matrix Spike Dup Analyzed: 08/29/2007-08/30/2007 (7H28132-MSD1)						**Source: IQH1759-29**					
Arsenic	39.1	2.5	1.8	mg/kg	50.0	2.43	73	75-125	13	20	*M2*
Barium	86.4	2.5	0.65	mg/kg	50.0	59.7	54	75-125	13	20	*M2*
Beryllium	39.4	1.5	0.20	mg/kg	50.0	0.380	78	75-125	13	20	
Cadmium	39.7	2.5	0.30	mg/kg	50.0	ND	79	75-125	12	20	
Chromium	46.4	5.0	1.8	mg/kg	50.0	9.37	74	75-125	12	20	*M2*
Cobalt	45.2	2.5	0.40	mg/kg	50.0	6.22	78	75-125	12	20	
Copper	64.0	5.0	1.9	mg/kg	50.0	29.6	69	75-125	11	20	*M2*
Lead	44.9	2.5	0.25	mg/kg	50.0	5.62	79	75-125	13	20	
Molybdenum	37.0	5.0	0.40	mg/kg	50.0	0.458	73	75-125	13	20	*M2*
Nickel	46.1	5.0	2.2	mg/kg	50.0	8.61	75	75-125	11	20	
Selenium	36.8	5.0	0.75	mg/kg	50.0	ND	74	75-125	13	20	*M2*
Silver	20.1	2.5	0.50	mg/kg	25.0	ND	80	75-125	12	20	
Thallium	40.0	2.5	0.40	mg/kg	50.0	0.447	79	75-125	12	20	
Vanadium	65.7	5.0	1.8	mg/kg	50.0	34.7	62	75-125	12	20	*M2*
Zinc	63.1	50	6.5	mg/kg	50.0	29.9	66	75-125	14	20	*M2*

Batch: 7H28133 Extracted: 08/28/07

Blank Analyzed: 08/29/2007 (7H28133-BLK1) ← not assoc. with Ut

Arsenic	ND	0.50	0.35	mg/kg
Barium	ND	0.50	0 13	mg/kg
Beryllium	ND	0.30	0.040	mg/kg
Cadmium	ND	0.50	0.060	mg/kg
Chromium	ND	1.0	0.35	mg/kg
Cobalt	ND	0.50	0.080	mg/kg
Copper	ND	1.0	0.38	mg/kg
Lead	ND	0.50	0.050	mg/kg
Molybdenum	ND	1.0	0.080	mg/kg
Nickel	ND	1 0	0.45	mg/kg
Selenium	ND	1.0	0.15	mg/kg
Silver	ND	0.50	0.10	mg/kg
Thallium	ND	0.50	0.080	mg/kg
Vanadium	ND	1 0	0.35	mg/kg
Zinc	ND	10	1.3	mg/kg

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Patty Mata
Project Manager

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H28132 Extracted: 08/28/07											
LCS Analyzed: 08/29/2007-08/30/2007 (7H28132-BS1)											
Arsenic	46.4	0.50	0.35	mg/kg	50.0		93	80-120			
Barium	49.1	0.50	0.13	mg/kg	50.0		98	80-120			
Beryllium	49.9	0.30	0.040	mg/kg	50.0		100	80-120			
Cadmium	47.5	0.50	0.060	mg/kg	50.0		95	80-120			
Chromium	48.2	1.0	0.35	mg/kg	50.0		96	80-120			
Cobalt	49.6	0.50	0.080	mg/kg	50.0		99	80-120			
Copper	50.0	1.0	0.38	mg/kg	50.0		100	80-120			
Lead	49.1	0.50	0.050	mg/kg	50.0		98	80-120			
Molybdenum	47.8	1.0	0.080	mg/kg	50.0		96	80-120			
Nickel	50.0	1.0	0.45	mg/kg	50.0		100	80-120			
Selenium	43.7	1.0	0.15	mg/kg	50.0		87	80-120			
Silver	25.4	0.50	0.10	mg/kg	25.0		101	80-120			
Thallium	48.2	0.50	0.080	mg/kg	50.0		96	80-120			
Vanadium	44.7	1.0	0.35	mg/kg	50.0		89	80-120			
Zinc	45.6	10	1.3	mg/kg	50.0		91	80-120			
Matrix Spike Analyzed: 08/29/2007-08/30/2007 (7H28132-MS1)						**Source: IQH1759-29**					
Arsenic	44.4	2.5	1.8	mg/kg	50.0	2.43	84	75-125			
Barium	98.3	2.5	0.65	mg/kg	50.0	59.7	77	75-125			
Beryllium	44.8	1.5	0.20	mg/kg	50.0	0.380	89	75-125			
Cadmium	44.6	2.5	0.30	mg/kg	50.0	ND	89	75-125			
Chromium	52.5	5.0	1 8	mg/kg	50.0	9.37	86	75-125			
Cobalt	51.1	2.5	0.40	mg/kg	50.0	6.22	90	75-125			
Copper	71.3	5.0	1.9	mg/kg	50.0	29.6	83	75-125			
Lead	51.3	2.5	0.25	mg/kg	50.0	5.62	91	75-125			
Molybdenum	42.2	5.0	0.40	mg/kg	50.0	0.458	83	75-125			
Nickel	51.6	5.0	2.2	mg/kg	50.0	8.61	86	75-125			
Selenium	41.9	5.0	0.75	mg/kg	50.0	ND	84	75-125			
Silver	22.6	2.5	0.50	mg/kg	25.0	ND	90	75-125			
Thallium	45.2	2.5	0.40	mg/kg	50.0	0.447	90	75-125			
Vanadium	74.1	5.0	1.8	mg/kg	50.0	34.7	79	75-125			
Zinc	72.6	50	6.5	mg/kg	50.0	29.9	85	75-125			

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Brown and Caldwell - NV
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Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H28133 Extracted: 08/28/07											
LCS Analyzed: 08/29/2007 (7H28133-BS1)											
Arsenic	45.3	0.50	0.35	mg/kg	50.0		91	80-120			
Barium	47.8	0.50	0.13	mg/kg	50.0		96	80-120			
Beryllium	50.0	0.30	0 040	mg/kg	50.0		100	80-120			
Cadmium	47.0	0.50	0.060	mg/kg	50.0		94	80-120			
Chromium	48.4	1.0	0.35	mg/kg	50.0		97	80-120			
Cobalt	50.8	0.50	0.080	mg/kg	50.0		102	80-120			
Copper	51.9	1.0	0.38	mg/kg	50.0		104	80-120			
Lead	49.7	0.50	0.050	mg/kg	50.0		99	80-120			
Molybdenum	47.3	1.0	0.080	mg/kg	50.0		95	80-120			
Nickel	50.5	1.0	0 45	mg/kg	50.0		101	80-120			
Selenium	43.8	1.0	0.15	mg/kg	50.0		88	80-120			
Silver	24.5	0.50	0.10	mg/kg	25.0		98	80-120			
Thallium	49.6	0.50	0.080	mg/kg	50.0		99	80-120			
Vanadium	46.1	1.0	0.35	mg/kg	50.0		92	80-120			
Zinc	48.0	10	1.3	mg/kg	50.0		96	80-120			
Matrix Spike Analyzed: 08/29/2007 (7H28133-MS1)						**Source: IQH1759-40**					
Arsenic	53.2	2.5	1.8	mg/kg	50.0	10.0	86	75-125			
Barium	145	2.5	0.65	mg/kg	50.0	95.6	98	75-125			
Beryllium	47.9	1.5	0.20	mg/kg	50.0	0.478	95	75-125			
Cadmium	45.4	2.5	0.30	mg/kg	50.0	ND	91	75-125			
Chromium	56.2	5.0	1.8	mg/kg	50.0	9.46	93	75-125			
Cobalt	53.5	2.5	0.40	mg/kg	50.0	6.63	94	75-125			
Copper	134	5.0	1.9	mg/kg	50.0	92.9	82	75-125			
Lead	53.9	2.5	0.25	mg/kg	50.0	5.21	97	75-125			
Molybdenum	43.5	5.0	0.40	mg/kg	50.0	2.95	81	75-125			
Nickel	57.1	5.0	2.2	mg/kg	50.0	11.8	91	75-125			
Selenium	45.8	5.0	0.75	mg/kg	50.0	ND	92	75-125			
Silver	22.9	2.5	0.50	mg/kg	25.0	ND	92	75-125			
Thallium	50.2	2.5	0.40	mg/kg	50.0	0.585	99	75-125			
Vanadium	77.6	5 0	1 8	mg/kg	50 0	36.9	82	75-125			
Zinc	85.6	50	6.5	mg/kg	50.0	38.3	95	75-125			

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Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H28133 Extracted: 08/28/07											
Matrix Spike Dup Analyzed: 08/29/2007 (7H28133-MSD1)						**Source: IQH1759-40**					
Arsenic	52.5	2.5	1.8	mg/kg	50.0	10.0	85	75-125	1	20	
Barium	144	2.5	0.65	mg/kg	50.0	95.6	96	75-125	1	20	
Beryllium	47.0	1.5	0.20	mg/kg	50.0	0.478	93	75-125	2	20	
Cadmium	46.0	2.5	0.30	mg/kg	50.0	ND	92	75-125	1	20	
Chromium	55.4	5.0	1.8	mg/kg	50.0	9.46	92	75-125	2	20	
Cobalt	54.5	2.5	0 40	mg/kg	50.0	6.63	96	75-125	2	20	
Copper	138	5.0	1.9	mg/kg	50.0	92.9	91	75-125	3	20	
Lead	53.8	2.5	0.25	mg/kg	50.0	5.21	97	75-125	0	20	
Molybdenum	43.4	5.0	0.40	mg/kg	50.0	2.95	81	75-125	0	20	
Nickel	56.6	5.0	2.2	mg/kg	50.0	11.8	90	75-125	1	20	
Selenium	45.9	5.0	0.75	mg/kg	50.0	ND	92	75-125	0	20	
Silver	23.1	2.5	0.50	mg/kg	25.0	ND	92	75-125	1	20	
Thallium	49.8	2.5	0.40	mg/kg	50.0	0.585	98	75-125	1	20	
Vanadium	76.0	5.0	1.8	mg/kg	50.0	36.9	78	75-125	2	20	
Zinc	82.5	50	6.5	mg/kg	50.0	38.3	88	75-125	4	20	
Batch: 7H31109 Extracted: 08/31/07											
Blank Analyzed: 09/01/2007 (7H31109-BLK1)											
Calcium	0.437 0.0874	0.10	0.050	mg/l							*J*
LCS Analyzed: 09/01/2007 (7H31109-BS1)											
Calcium	5.06	0.10	0.050	mg/l	5.00		101	80-120			
Matrix Spike Analyzed: 09/01/2007 (7H31109-MS1)						**Source: IQH3000-01**					
Calcium	40.8	0.10	0.050	mg/l	5.00	38.3	50	75-125			*MHA*

Batch

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Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 7H31109 Extracted: 08/31/07											
Matrix Spike Dup Analyzed: 09/01/2007 (7H31109-MSD1)						**Source: IQH3000-01**					
Calcium	36.8	0.10	0.050	mg/l	5.00	38.3	-31	75-125	10	20	*MHA*

Batch

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Brown and Caldwell - NV 3264 Goni Rd, Ste 153 Carson City, NV 89706 Attention: Penny Bassett	Project ID: BP Yerington, NV Soils 132039 Report Number: IQH1759	Sampled: 08/14/07-08/16/07 Received: 08/18/07

DATA QUALIFIERS AND DEFINITIONS

B-1	Analyte was detected in the associated method blank. Analyte concentration in the sample is greater than 10x the concentration found in the method blank.
C	Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
J	Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.
M1	The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
M2	The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
MHA	Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
RL1	Reporting limit raised due to sample matrix effects.
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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MDL STUDY
METALS BY ICP - EPA 6010B / 200.7

Analyt Method: EPA 6010B / 200.7
Prep Method: EPA 3005A / 200.2
Matrix: **Water** (50ml-->50ml)
Units: **mg/L**

Instruments: **ICP4**
Standard Conc: **Na,K**: 10x - **Si**: 5x - **Ag**: 0.5x
Ca,Mg: 1x

Reviewed: T. Vu (Jun/18/07)

#	Analyte	Spike(mg/l)		MDL Runs - (mg/L)								Calc Data (mg/L)			final	*current* LIMS (mg/L)			Validation Criteria				Comm't
		recom.	Actual	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Avrg	StdDev	MDL	MDL	MDL	RL_1	RL_2	MDL<RL	Ch'g	Ratio (1-10)	%Rec	Grubbs Test
1	Aluminum	0.05	0.05	0.049	0.058	0.052	0.057	0.031	0.034	0.030	0.031	0.043	0.013	0.038	0.038	0.040	0.050	0.050	OK	-6%	1.3	85%	
2	Antimony	0.01	0.01	0.010	0.009	0.010	0.012	0.013	0.016	0.009	0.015	0.012	0.003	0.008	0.008	0.007	0.010	0.010	OK	13%	1.3	119%	
3	Arsenic	0.01	0.01	0.008	0.007	0.013	0.009	0.010	0.010	0.010	0.014	0.010	0.002	0.007	0.007	0.0065	0.010	0.010	OK	6%	1.4	102%	
4	Barium	0.01	0.01	0.011	0.010	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.000	0.000	0.000	0.006	0.010	0.010	OK	-93%	25	105%	
5	Beryllium	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.000	0.000	0.000	0.0009	0.004	0.004	OK	-67%	17	98%	
6	Boron	0.05	0.05	0.078	0.080	0.079	0.079	0.064	0.071	0.071	0.070	0.074	0.006	0.017	0.017	0.017	0.050	0.050	OK	no ch'g	3	148%	
7	Cadmium	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.000	0.000	0.000	0.002	0.005	0.005	OK	-80%	13	101%	
8	Calcium	0.1	0.05	0.026	0.035	0.028	0.036	0.052	0.060	0.052	0.056	0.043	0.013	0.040	0.040	0.050	0.10	0.10	OK	-20%	1.2	87%	
9	Chromium	0.005	0.005	0.006	0.005	0.005	0.006	0.005	0.005	0.005	0.005	0.005	0.000	0.001	0.001	0.002	0.005	0.005	OK	-50%	5	103%	
10	Cobalt	0.01	0.01	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.010	0.010	0.000	0.001	0.001	0.002	0.010	0.010	OK	-50%	10	105%	
11	Copper	0.01	0.01	0.012	0.011	0.012	0.011	0.012	0.012	0.011	0.011	0.012	0.001	0.002	0.002	0.003	0.010	0.010	OK	-47%	6	116%	
12	Iron	0.04	0.02	0.020	0.020	0.020	0.020	0.021	0.021	0.020	0.023	0.021	0.001	0.003	0.003	0.015	0.04	0.02	OK	-80%	7	104%	2.33
13	Lead	0.005	0.005	0.005	0.005	0.003	0.006	0.003	0.004	0.004	0.005	0.004	0.001	0.003	0.003	0.003	0.005	0.005	OK	no ch'g	2	86%	
14	Lithium	0.05	0.05	0.069	0.068	0.068	0.070	0.050	0.047	0.050	0.048	0.059	0.011	0.032	0.032	0.030	0.050	0.050	OK	8%	2	118%	
15	Magnesium	0.02	0.02	0.018	0.019	0.024	0.012	0.022	0.016	0.017	0.015	0.018	0.004	0.011	0.011	0.008	0.020	0.020	OK	41%	2	90%	
16	Manganese	0.02	0.02	0.023	0.021	0.021	0.021	0.021	0.022	0.021	0.022	0.021	0.001	0.002	0.002	0.007	0.020	0.020	OK	-74%	11	107%	
17	Molybdenum	0.02	0.02	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.020	0.021	0.000	0.001	0.001	0.002	0.020	0.020	OK	-45%	18	104%	
18	Nickel	0.01	0.01	0.011	0.011	0.011	0.011	0.011	0.011	0.010	0.011	0.011	0.000	0.001	0.001	0.002	0.010	0.010	OK	-50%	10	109%	
19	Phosphorus	0.5	0.05	0.045	0.047	0.052	0.055	0.046	0.043	0.053	0.056	0.050	0.005	0.015	0.015	0.02	0.50	0.50	OK	-26%	3	99%	
20	Potassium	0.5	0.5	0.672	0.763	0.681	0.655	0.482	0.532	0.447	0.439	0.584	0.124	0.371	0.37	0.15	0.50	0.50	OK	147%	1.3	117%	
21	Selenium	0.01	0.01	0.015	0.014	0.016	0.011	0.010	0.013	0.018	0.014	0.014	0.002	0.008	0.008	0.008	0.010	0.010	OK	-6%	1.3	139%	
22	Silicon	0.05	0.05	0.061	0.062	0.063	0.063	0.065	0.061	0.062	0.060	0.062	0.002	0.005	0.005	0.013	0.050	0.050	OK	-65%	11	124%	
23	Silver	0.01	0.01	0.010	0.009	0.010	0.007	0.009	0.008	0.009	0.009	0.009	0.001	0.002	0.002	0.006	0.010	0.007	OK	-60%	4	89%	
24	Sodium	0.5	0.5	0.554	0.561	0.527	0.522	0.441	0.474	0.457	0.480	0.502	0.045	0.135	0.14	0.19	0.50	0.50	OK	-29%	4	100%	
25	Strontium	0.02	0.01	0.011	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.011	0.000	0.001	0.001	0.005	0.020	0.020	OK	-80%	10	108%	
26	Thallium	0.01	0.01	0.009	0.008	0.011	0.009	0.008	0.013	0.009	0.013	0.010	0.002	0.005	0.005	0.007	0.010	0.010	OK	-23%	2	100%	
27	Tin	0.1	0.05	0.055	0.057	0.057	0.056	0.049	0.049	0.050	0.049	0.053	0.004	0.012	0.012	0.01	0.10	0.10	OK	19%	4	105%	
28	Titanium	0.005	0.005	0.005	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.000	0.001	0.001	0.002	0.005	0.005	OK	-45%	5	105%	
29	Vanadium	0.01	0.01	0.012	0.012	0.011	0.012	0.012	0.012	0.010	0.012	0.011	0.001	0.002	0.002	0.003	0.010	0.010	OK	-40%	6	115%	2.21
30	Zinc	0.02	0.02	0.020	0.020	0.019	0.019	0.024	0.020	0.020	0.022	0.020	0.002	0.005	0.005	0.004	0.020	0.020	OK	33%	4	102%	
31	Zirconium	0.2														0.012	0.20	0.20					

ICP
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument: **ICP4**
Data File/Seq.#: 070821-1

Labnumber: RL CHK1 2XRL
Filename: 070821-1-007
Analyzed: Aug/21/07 9:16:40 AM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	0.1	0.136	136	50-150	
3	Arsenic	0.01	0.0058	58	50-150	
5	Beryllium	0.01	0.0092	92	50-150	
6	Boron	0.1	0.1038	104	50-150	
7	Cadmium	0.01	0.0096	96	50-150	
8	Calcium	0.2	0.2283	114	50-150	
9	Chromium	0.01	0.0098	98	50-150	
12	Iron	0.08	0.083	104	50-150	
13	Lead	0.01	0.0075	75	50-150	
15	Magnesium	0.04	0.0501	125	50-150	
16	Manganese	0.01	0.0094	94	50-150	
19	Phosphorus	1	0.0034		50-150	
20	Potassium	1	1.3151	132	50-150	
24	Sodium	1	1.074	107	50-150	
28	Titanium	0.01	0.0094	94	50-150	

(*) = Out of range

ICP
REPORTING LIMIT VERIFICATION SUMMARY (20 ppb)

Instrument:	ICP4	Labnumber:	RL CHK2 20PPB
Data File/Seq.#:	070821-1	Filename:	070821-1-008
		Analyzed:	Aug/21/07 9:22:13 AM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
2	Antimony	0.02	0.0217	109	50-150	
4	Barium	0.02	0.0207	103	50-150	
10	Cobalt	0.02	0.0208	104	50-150	
11	Copper	0.02	0.0227	114	50-150	
14	Lithium	0.02	0.0146	73	50-150	
17	Molybdenum	0.02	0.0209	104	50-150	
18	Nickel	0.02	0.022	110	50-150	
21	Selenium	0.02	0.0204	102	50-150	
22	Silicon	0.1	0.1059	106	50-150	
23	Silver	0.01	0.0104	104	50-150	
25	Strontium	0.02	0.021	105	50-150	
26	Thallium	0.02	0.0139	70	50-150	
27	Tin	0.02	0.0213	106	50-150	
29	Vanadium	0.02	0.0214	107	50-150	
30	Zinc	0.02	0.021	105	50-150	

(*) = Out of range

ICP
INITIAL CALIBRATION VERIFICATION SUMMARY

Instrument: ICP4
Data File/Seq.#: 070821-1

Labnumber: 070821ICV
Filename: 070821-1-009
Analyzed: Aug/21/07 9:29:34 AM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	2	2.06	103	90-110	
2	Antimony	2	1.963	98	90-110	
3	Arsenic	2	1.981	99	90-110	
4	Barium	2	2.089	104	90-110	
5	Beryllium	2	2.029	101	90-110	
6	Boron	2	2.116	106	90-110	
7	Cadmium	2	1.947	97	90-110	
8	Calcium	2	1.963	98	90-110	
9	Chromium	2	1.974	99	90-110	
10	Cobalt	2	1.992	100	90-110	
11	Copper	2	1.991	100	90-110	
12	Iron	2	2.033	102	90-110	
13	Lead	2	1.963	98	90-110	
14	Lithium	2	2.001	100	90-110	
15	Magnesium	2	2.018	101	90-110	
16	Manganese	2	1.995	100	90-110	
17	Molybdenum	2	1.943	97	90-110	
18	Nickel	2	2.001	100	90-110	
19	Phosphorus	2	1.931	97	90-110	
20	Potassium	20	19.823	99	90-110	
21	Selenium	2	1.952	98	90-110	
22	Silicon	10	10.304	103	90-110	
23	Silver	1	0.993	99	90-110	
24	Sodium	20	19.871	99	90-110	
25	Strontium	2	1.966	98	90-110	
26	Thallium	2	2.036	102	90-110	
27	Tin	2	1.96	98	90-110	
28	Titanium	2	2.031	102	90-110	
29	Vanadium	2	2.015	101	90-110	
30	Zinc	2	1.997	100	90-110	

(*) = Out of range

ICP
INITIAL CALIBRATION BLANK SUMMARY

Instrument:	ICP4	Labnumber:	ICB	
Data File/Seq.#:	070821-1	Filename:	070821-1-010	
		Analyzed:	Aug/21/07	9:35:07 AM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.015	
2	Antimony	0.01	0.007	No +'s
3	Arsenic	0.005	-0.003	
4	Barium	0.01	0.001	
5	Beryllium	0.05	0	
6	Boron	0.05	0.01	
7	Cadmium	0.005	0.001	
8	Calcium	0.1	0.006	
9	Chromium	0.005	0.001	
10	Cobalt	0.01	0.001	
11	Copper	0.01	0.004	
12	Iron	0.04	-0.001	
13	Lead	0.005	-0.001	
14	Lithium	0.05	-0.009	
15	Magnesium	0.5	0.004	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0.002	
18	Nickel	0.01	0.002	
19	Phosphorus	0.5	-0.008	
20	Potassium	0.5	0.283	
21	Selenium	0.01	0.003	
22	Silicon	0.05	0.01	
23	Silver	0.01	0.001	
24	Sodium	0.5	0.014	
25	Strontium	0.02	0.001	
26	Thallium	0.01	0.002	
27	Tin	0.1	0.003	
28	Titanium	0.005	0.001	
29	Vanadium	0.01	0.002	
30	Zinc	0.02	0.002	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: **ICP4**
Data File/Seq.#: 070821-1

Labnumber: 070821CCV
Filename: 070821-1-049
Analyzed: Aug/21/07 1:27:27 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.997	100	90-110	
2	Antimony	1	1.009	101	90-110	
3	Arsenic	1	1.044	104	90-110	
4	Barium	1	1.023	102	90-110	
5	Beryllium	1	1.024	102	90-110	
6	Boron	1	1.007	101	90-110	
7	Cadmium	1	1.03	103	90-110	
8	Calcium	10	10.259	103	90-110	
9	Chromium	1	1.03	103	90-110	
10	Cobalt	1	1.036	104	90-110	
11	Copper	1	1.009	101	90-110	
12	Iron	1	1.024	102	90-110	
13	Lead	1	1.04	104	90-110	
14	Lithium	1	1.017	102	90-110	
15	Magnesium	1	1.054	105	90-110	
16	Manganese	1	1.021	102	90-110	
17	Molybdenum	1	1.026	103	90-110	
18	Nickel	1	1.037	104	90-110	
19	Phosphorus	1	1.033	103	90-110	
20	Potassium	10	10.413	104	90-110	
21	Selenium	1	1.041	104	90-110	
22	Silicon	5	5.083	102	90-110	
23	Silver	0.5	0.51	102	90-110	
24	Sodium	10	10.719	107	90-110	
25	Strontium	1	0.985	99	90-110	
26	Thallium	1	1.028	103	90-110	
27	Tin	1	1.048	105	90-110	
28	Titanium	1	1.006	101	90-110	
29	Vanadium	1	1.021	102	90-110	
30	Zinc	1	1.019	102	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	ICP4	Labnumber:	CCB	
Data File/Seq.#:	070821-1	Filename:	070821-1-050	
		Analyzed:	Aug/21/07	1:33:02 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.018	
2	Antimony	0.01	0.004	
3	Arsenic	0.005	-0.003	
4	Barium	0.01	0.001	
5	Beryllium	0.05	0	
6	Boron	0.05	0.008	
7	Cadmium	0.005	0	
8	Calcium	0.1	0.012	
9	Chromium	0.005	0	
10	Cobalt	0.01	0.001	
11	Copper	0.01	0.002	
12	Iron	0.04	-0.002	
13	Lead	0.005	-0.004	
14	Lithium	0.05	-0.008	
15	Magnesium	0.5	-0.002	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0.002	
18	Nickel	0.01	0.001	
19	Phosphorus	0.5	-0.015	
20	Potassium	0.5	0.462	
21	Selenium	0.01	0.005	
22	Silicon	0.05	0.011	
23	Silver	0.01	0.001	
24	Sodium	0.5	0.39	
25	Strontium	0.02	0.001	
26	Thallium	0.01	-0.002	
27	Tin	0.1	0.003	
28	Titanium	0.005	0.001	
29	Vanadium	0.01	0.001	
30	Zinc	0.02	0.002	

(*) = Out of range

all sample results > 5x blank

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: ICP4
Data File/Seq.#: 070821-1

Labnumber: 070821CCV
Filename: 070821-1-061
Analyzed: Aug/21/07 2:35:24 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	1.047	105	90-110	
2	Antimony	1	0.995	100	90-110	
3	Arsenic	1	1.025	102	90-110	
4	Barium	1	1.029	103	90-110	
5	Beryllium	1	1	100	90-110	
6	Boron	1	1.012	101	90-110	
7	Cadmium	1	1.035	103	90-110	
8	Calcium	10	10.191	102	90-110	
9	Chromium	1	1.015	101	90-110	
10	Cobalt	1	1.017	102	90-110	
11	Copper	1	1.01	101	90-110	
12	Iron	1	1.077	108	90-110	
13	Lead	1	1.026	103	90-110	
14	Lithium	1	0.984	98	90-110	
15	Magnesium	1	1.041	104	90-110	
16	Manganese	1	1.019	102	90-110	
17	Molybdenum	1	1.013	101	90-110	
18	Nickel	1	1.02	102	90-110	
19	Phosphorus	1	1.014	101	90-110	
20	Potassium	10	9.739	97	90-110	
21	Selenium	1	1.027	103	90-110	
22	Silicon	5	5.095	102	90-110	
23	Silver	0.5	0.509	102	90-110	
24	Sodium	10	9.805	98	90-110	
25	Strontium	1	0.944	94	90-110	
26	Thallium	1	1.005	100	90-110	
27	Tin	1	1.034	103	90-110	
28	Titanium	1	1.006	101	90-110	
29	Vanadium	1	1.021	102	90-110	
30	Zinc	1	1.012	101	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	ICP4	Labnumber:	CCB	
Data File/Seq.#:	070821-1	Filename:	070821-1-062	
		Analyzed:	Aug/21/07	2:40:59 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.015	
2	Antimony	0.01	-0.001	
3	Arsenic	0.005	-0.001	
4	Barium	0.01	0	
5	Beryllium	0.05	0	
6	Boron	0.05	0.007	
7	Cadmium	0.005	0	
8	Calcium	0.1	0.013	
9	Chromium	0.005	0.001	
10	Cobalt	0.01	0	
11	Copper	0.01	0.002	
12	Iron	0.04	0.003	
13	Lead	0.005	-0.002	
14	Lithium	0.05	-0.005	
15	Magnesium	0.5	0.008	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0.001	
18	Nickel	0.01	0.001	
19	Phosphorus	0.5	-0.003	
20	Potassium	0.5	0.283	
21	Selenium	0.01	0.004	
22	Silicon	0.05	0.008	
23	Silver	0.01	-0.001	
24	Sodium	0.5	-0.028	
25	Strontium	0.02	0.001	
26	Thallium	0.01	0.002	
27	Tin	0.1	0.004	
28	Titanium	0.005	0.001	
29	Vanadium	0.01	0.002	
30	Zinc	0.02	0.002	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: ICP4
Data File/Seq.#: 070821-1

Labnumber: 070821CCV
Filename: 070821-1-073
Analyzed: Aug/21/07 3:41:20 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	1.02	102	90-110	
2	Antimony	1	0.952	95	90-110	
3	Arsenic	1	0.98	98	90-110	
4	Barium	1	0.994	99	90-110	
5	Beryllium	1	0.991	99	90-110	
6	Boron	1	0.971	97	90-110	
7	Cadmium	1	0.994	99	90-110	
8	Calcium	10	9.913	99	90-110	
9	Chromium	1	0.978	98	90-110	
10	Cobalt	1	0.978	98	90-110	
11	Copper	1	0.977	98	90-110	
12	Iron	1	1.066	107	90-110	
13	Lead	1	0.987	99	90-110	
14	Lithium	1	0.982	98	90-110	
15	Magnesium	1	1.004	100	90-110	
16	Manganese	1	0.984	98	90-110	
17	Molybdenum	1	0.977	98	90-110	
18	Nickel	1	0.981	98	90-110	
19	Phosphorus	1	0.982	98	90-110	
20	Potassium	10	9.92	99	90-110	
21	Selenium	1	0.981	98	90-110	
22	Silicon	5	4.912	98	90-110	
23	Silver	0.5	0.491	98	90-110	
24	Sodium	10	9.627	96	90-110	
25	Strontium	1	0.93	93	90-110	
26	Thallium	1	0.971	97	90-110	
27	Tin	1	0.986	99	90-110	
28	Titanium	1	0.974	97	90-110	
29	Vanadium	1	0.992	99	90-110	
30	Zinc	1	0.972	97	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	ICP4	Labnumber:	CCB	
Data File/Seq.#:	070821-1	Filename:	070821-1-074	
		Analyzed:	Aug/21/07	3:46:54 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.015	
2	Antimony	0.01	0.001	
3	Arsenic	0.005	-0.001	
4	Barium	0.01	0	
5	Beryllium	0.05	0	
6	Boron	0.05	0.007	
7	Cadmium	0.005	0	
8	Calcium	0.1	0.021	
9	Chromium	0.005	0.001	
10	Cobalt	0.01	0.001	
11	Copper	0.01	0.001	
12	Iron	0.04	0.005	
13	Lead	0.005	-0.001	
14	Lithium	0.05	-0.004	
15	Magnesium	0.5	0.004	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0.001	
18	Nickel	0.01	0.001	
19	Phosphorus	0.5	-0.001	
20	Potassium	0.5	0.209	
21	Selenium	0.01	0.002	
22	Silicon	0.05	0.007	
23	Silver	0.01	0	
24	Sodium	0.5	-0.039	
25	Strontium	0.02	0	
26	Thallium	0.01	-0.001	
27	Tin	0.1	0.003	
28	Titanium	0.005	0.001	
29	Vanadium	0.01	0.001	
30	Zinc	0.02	0.002	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: ICP4
Data File/Seq.#: 070821-1

Labnumber: 070821CCV
Filename: 070821-1-082
Analyzed: Aug/21/07 4:33:34 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	1.031	103	90-110	
2	Antimony	1	0.972	97	90-110	
3	Arsenic	1	0.995	100	90-110	
4	Barium	1	1.007	101	90-110	
5	Beryllium	1	0.998	100	90-110	
6	Boron	1	0.976	98	90-110	
7	Cadmium	1	1.006	101	90-110	
8	Calcium	10	9.932	99	90-110	
9	Chromium	1	0.996	100	90-110	
10	Cobalt	1	0.997	100	90-110	
11	Copper	1	0.991	99	90-110	
12	Iron	1	1.079	108	90-110	
13	Lead	1	1.004	100	90-110	
14	Lithium	1	0.991	99	90-110	
15	Magnesium	1	1.022	102	90-110	
16	Manganese	1	0.996	100	90-110	
17	Molybdenum	1	0.997	100	90-110	
18	Nickel	1	0.999	100	90-110	
19	Phosphorus	1	1.002	100	90-110	
20	Potassium	10	9.987	100	90-110	
21	Selenium	1	0.997	100	90-110	
22	Silicon	5	4.97	99	90-110	
23	Silver	0.5	0.497	99	90-110	
24	Sodium	10	9.362	94	90-110	
25	Strontium	1	0.94	94	90-110	
26	Thallium	1	0.986	99	90-110	
27	Tin	1	1.005	100	90-110	
28	Titanium	1	0.987	99	90-110	
29	Vanadium	1	1.005	100	90-110	
30	Zinc	1	0.984	98	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	ICP4	Labnumber:	CCB	
Data File/Seq.#:	070821-1	Filename:	070821-1-083	
		Analyzed:	Aug/21/07	4:39:08 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.007	
2	Antimony	0.01	0.001	
3	Arsenic	0.005	-0.001	
4	Barium	0.01	0.001	
5	Beryllium	0.05	0	
6	Boron	0.05	0.008	
7	Cadmium	0.005	0	
8	Calcium	0.1	0.016	
9	Chromium	0.005	0	
10	Cobalt	0.01	0	
11	Copper	0.01	0.001	
12	Iron	0.04	0.005	
13	Lead	0.005	-0.003	
14	Lithium	0.05	-0.005	
15	Magnesium	0.5	0.007	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0.001	
18	Nickel	0.01	0.001	
19	Phosphorus	0.5	-0.004	
20	Potassium	0.5	0.211	
21	Selenium	0.01	-0.001	
22	Silicon	0.05	0.007	
23	Silver	0.01	0	
24	Sodium	0.5	-0.023	
25	Strontium	0.02	0	
26	Thallium	0.01	0	
27	Tin	0.1	0.002	
28	Titanium	0.005	0.001	
29	Vanadium	0.01	-0.001	
30	Zinc	0.02	0.002	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: ICP4
Data File/Seq.#: 070821-1

Labnumber: 070821CCV
Filename: 070821-1-094
Analyzed: Aug/21/07 5:44:48 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.955	96	90-110	
2	Antimony	1	0.962	96	90-110	
3	Arsenic	1	0.984	98	90-110	
4	Barium	1	0.991	99	90-110	
5	Beryllium	1	0.992	99	90-110	
6	Boron	1	0.965	97	90-110	
7	Cadmium	1	0.985	99	90-110	
8	Calcium	10	9.714	97	90-110	
9	Chromium	1	0.989	99	90-110	
10	Cobalt	1	0.987	99	90-110	
11	Copper	1	0.98	98	90-110	
12	Iron	1	0.981	98	90-110	
13	Lead	1	0.995	100	90-110	
14	Lithium	1	0.993	99	90-110	
15	Magnesium	1	0.986	99	90-110	
16	Manganese	1	0.976	98	90-110	
17	Molybdenum	1	0.993	99	90-110	
18	Nickel	1	0.987	99	90-110	
19	Phosphorus	1	0.984	98	90-110	
20	Potassium	10	10.004	100	90-110	
21	Selenium	1	0.985	99	90-110	
22	Silicon	5	4.875	98	90-110	
23	Silver	0.5	0.488	98	90-110	
24	Sodium	10	9.356	94	90-110	
25	Strontium	1	0.94	94	90-110	
26	Thallium	1	0.976	98	90-110	
27	Tin	1	0.992	99	90-110	
28	Titanium	1	0.97	97	90-110	
29	Vanadium	1	0.991	99	90-110	
30	Zinc	1	0.968	97	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	ICP4	Labnumber:	CCB	
Data File/Seq.#:	070821-1	Filename:	070821-1-095	
		Analyzed:	Aug/21/07	5:50:23 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.019	
2	Antimony	0.01	0.002	
3	Arsenic	0.005	0.001	
4	Barium	0.01	0	
5	Beryllium	0.05	0	
6	Boron	0.05	0.008	
7	Cadmium	0.005	0	
8	Calcium	0.1	0.004	
9	Chromium	0.005	0.001	
10	Cobalt	0.01	0	
11	Copper	0.01	0	
12	Iron	0.04	0	
13	Lead	0.005	-0.001	
14	Lithium	0.05	-0.003	
15	Magnesium	0.5	0	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0	
18	Nickel	0.01	0.001	
19	Phosphorus	0.5	-0.005	
20	Potassium	0.5	0.056	
21	Selenium	0.01	0	
22	Silicon	0.05	0.008	
23	Silver	0.01	-0.001	
24	Sodium	0.5	-0.067	
25	Strontium	0.02	0	
26	Thallium	0.01	0	
27	Tin	0.1	0.001	
28	Titanium	0.005	0.001	
29	Vanadium	0.01	0.001	
30	Zinc	0.02	0.001	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: ICP4
Data File/Seq.#: 070821-1

Labnumber: 070821CCV
Filename: 070821-1-098
Analyzed: Aug/21/07 6:09:02 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.935	94	90-110	
2	Antimony	1	0.985	99	90-110	
3	Arsenic	1	0.974	97	90-110	
4	Barium	1	0.998	100	90-110	
5	Beryllium	1	0.982	98	90-110	
6	Boron	1	0.998	100	90-110	
7	Cadmium	1	0.99	99	90-110	
8	Calcium	10	9.606	96	90-110	
9	Chromium	1	0.976	98	90-110	
10	Cobalt	1	0.972	97	90-110	
11	Copper	1	1.001	100	90-110	
12	Iron	1	0.984	98	90-110	
13	Lead	1	0.989	99	90-110	
14	Lithium	1	0.98	98	90-110	
15	Magnesium	1	0.948	95	90-110	
16	Manganese	1	0.984	98	90-110	
17	Molybdenum	1	0.978	98	90-110	
18	Nickel	1	0.969	97	90-110	
19	Phosphorus	1	0.975	98	90-110	
20	Potassium	10	9.44	94	90-110	
21	Selenium	1	0.971	97	90-110	
22	Silicon	5	4.873	97	90-110	
23	Silver	0.5	0.493	99	90-110	
24	Sodium	10	9.443	94	90-110	
25	Strontium	1	0.951	95	90-110	
26	Thallium	1	0.984	98	90-110	
27	Tin	1	0.978	98	90-110	
28	Titanium	1	0.983	98	90-110	
29	Vanadium	1	1.008	101	90-110	
30	Zinc	1	0.979	98	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	ICP4	Labnumber:	CCB	
Data File/Seq.#:	070821-1	Filename:	070821-1-099	
		Analyzed:	Aug/21/07	6:14:37 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	0.003	
2	Antimony	0.01	-0.001	
3	Arsenic	0.005	0.003	
4	Barium	0.01	0	
5	Beryllium	0.05	0	
6	Boron	0.05	0.005	
7	Cadmium	0.005	0	
8	Calcium	0.1	0.002	
9	Chromium	0.005	0	
10	Cobalt	0.01	0	
11	Copper	0.01	0.001	
12	Iron	0.04	0.001	
13	Lead	0.005	0	
14	Lithium	0.05	0.001	
15	Magnesium	0.5	0.01	
16	Manganese	0.02	0.001	
17	Molybdenum	0.02	0.001	
18	Nickel	0.01	-0.001	
19	Phosphorus	0.5	0	
20	Potassium	0.5	0.002	
21	Selenium	0.01	0.005	
22	Silicon	0.05	0.004	
23	Silver	0.01	0	
24	Sodium	0.5	-0.044	
25	Strontium	0.02	0	
26	Thallium	0.01	0	
27	Tin	0.1	0	
28	Titanium	0.005	0.001	
29	Vanadium	0.01	0.001	
30	Zinc	0.02	0.001	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: **ICP4**
Data File/Seq.#: 070821-1

Labnumber: 070821CCV
Filename: 070821-1-110
Analyzed: Aug/21/07 7:17:20 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.966	97	90-110	
2	Antimony	1	0.971	97	90-110	
3	Arsenic	1	0.965	97	90-110	
4	Barium	1	0.966	97	90-110	
5	Beryllium	1	0.983	98	90-110	
6	Boron	1	0.957	96	90-110	
7	Cadmium	1	0.963	96	90-110	
8	Calcium	10	9.607	96	90-110	
9	Chromium	1	0.968	97	90-110	
10	Cobalt	1	0.963	96	90-110	
11	Copper	1	0.97	97	90-110	
12	Iron	1	1.02	102	90-110	
13	Lead	1	0.985	99	90-110	
14	Lithium	1	0.966	97	90-110	
15	Magnesium	1	0.96	96	90-110	
16	Manganese	1	0.952	95	90-110	
17	Molybdenum	1	0.97	97	90-110	
18	Nickel	1	0.959	96	90-110	
19	Phosphorus	1	0.99	99	90-110	
20	Potassium	10	9.446	94	90-110	
21	Selenium	1	0.959	96	90-110	
22	Silicon	5	4.72	94	90-110	
23	Silver	0.5	0.477	95	90-110	
24	Sodium	10	9.222	92	90-110	
25	Strontium	1	0.983	98	90-110	
26	Thallium	1	0.97	97	90-110	
27	Tin	1	0.972	97	90-110	
28	Titanium	1	0.951	95	90-110	
29	Vanadium	1	0.968	97	90-110	
30	Zinc	1	0.946	95	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	ICP4	Labnumber:	CCB	
Data File/Seq.#:	070821-1	Filename:	070821-1-111	
		Analyzed:	Aug/21/07	7:22:55 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	0.023	
2	Antimony	0.01	-0.002	
3	Arsenic	0.005	0.006	*
4	Barium	0.01	0	
5	Beryllium	0.05	0	
6	Boron	0.05	0.004	
7	Cadmium	0.005	0	
8	Calcium	0.1	0.034	
9	Chromium	0.005	0	
10	Cobalt	0.01	0	
11	Copper	0.01	0.001	
12	Iron	0.04	0.018	
13	Lead	0.005	0.002	
14	Lithium	0.05	0.003	
15	Magnesium	0.5	0.011	
16	Manganese	0.02	0.001	
17	Molybdenum	0.02	0.001	
18	Nickel	0.01	-0.001	
19	Phosphorus	0.5	0.005	
20	Potassium	0.5	-0.105	
21	Selenium	0.01	0.003	
22	Silicon	0.05	0.004	
23	Silver	0.01	0.001	
24	Sodium	0.5	-0.073	
25	Strontium	0.02	0.001	
26	Thallium	0.01	-0.004	
27	Tin	0.1	0.001	
28	Titanium	0.005	0.001	
29	Vanadium	0.01	0.002	
30	Zinc	0.02	0.03	*

(*) = Out of range

Sample results > 5x blank

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: ICP4
Data File/Seq.#: 070821-1

Labnumber: 070821CCV
Filename: 070821-1-122
Analyzed: Aug/21/07 8:25:00 PM

	Analyte	Conc (mg/L) True	Conc (mg/L) Found	% Rec	%Limits	Q
1	Aluminum	1	0.987	99	90-110	
2	Antimony	1	0.97	97	90-110	
3	Arsenic	1	0.97	97	90-110	
4	Barium	1	0.989	99	90-110	
5	Beryllium	1	0.98	98	90-110	
6	Boron	1	0.975	98	90-110	
7	Cadmium	1	0.991	99	90-110	
8	Calcium	10	9.595	96	90-110	
9	Chromium	1	0.972	97	90-110	
10	Cobalt	1	0.967	97	90-110	
11	Copper	1	0.991	99	90-110	
12	Iron	1	1.056	106	90-110	
13	Lead	1	0.993	99	90-110	
14	Lithium	1	0.958	96	90-110	
15	Magnesium	1	0.959	96	90-110	
16	Manganese	1	0.968	97	90-110	
17	Molybdenum	1	0.976	98	90-110	
18	Nickel	1	0.96	96	90-110	
19	Phosphorus	1	1.005	100	90-110	
20	Potassium	10	9.126	91	90-110	
21	Selenium	1	0.968	97	90-110	
22	Silicon	5	4.81	96	90-110	
23	Silver	0.5	0.483	97	90-110	
24	Sodium	10	8.966	90	90-110	
25	Strontium	1	0.978	98	90-110	
26	Thallium	1	0.973	97	90-110	
27	Tin	1	0.975	98	90-110	
28	Titanium	1	0.969	97	90-110	
29	Vanadium	1	1.005	100	90-110	
30	Zinc	1	0.966	97	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	ICP4	Labnumber:	CCB	
Data File/Seq.#:	070821-1	Filename:	070821-1-123	
		Analyzed:	Aug/21/07	8:30:34 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	0.014	
2	Antimony	0.01	0	
3	Arsenic	0.005	-0.003	
4	Barium	0.01	0	
5	Beryllium	0.05	0	
6	Boron	0.05	0.004	
7	Cadmium	0.005	0.001	
8	Calcium	0.1	0.012	
9	Chromium	0.005	0.001	
10	Cobalt	0.01	0	
11	Copper	0.01	0.002	
12	Iron	0.04	0.008	
13	Lead	0.005	0.002	
14	Lithium	0.05	0	
15	Magnesium	0.5	0.002	
16	Manganese	0.02	0.001	
17	Molybdenum	0.02	0.001	
18	Nickel	0.01	-0.001	
19	Phosphorus	0.5	0.001	
20	Potassium	0.5	-0.117	
21	Selenium	0.01	0.005	
22	Silicon	0.05	0.001	
23	Silver	0.01	0.001	
24	Sodium	0.5	-0.01	
25	Strontium	0.02	0.001	
26	Thallium	0.01	-0.004	
27	Tin	0.1	0.001	
28	Titanium	0.005	0.001	
29	Vanadium	0.01	0.002	
30	Zinc	0.02	0.022	*

(*) = Out of range

Sequence No.: 6
Sample ID: 070820ICSA/SIC
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 147
Date Collected: 8/20/2007 9:38:08 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 070820ICSA/SIC

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3698106.5	89.91	%	0.002				0.00%
Ag 328.068†	-4600.1	0.0035	mg/L	0.00046	0.0035	mg/L	0.00046	13.30%
Al 308.215†	7847401.1	503.3	mg/L	3.03	503.3	mg/L	3.03	0.60%
As 188.979†	-69.9	0.0194	mg/L	0.00213	0.0194	mg/L	0.00213	10.99%
B 249.772†	5943.9	0.0183	mg/L	0.00790	0.0183	mg/L	0.00790	43.14%
Ba 233.527†	272.6	0.0040	mg/L	0.00004	0.0040	mg/L	0.00004	0.92%
Be 313.107†	-199.9	-0.0002	mg/L	0.00003	-0.0002	mg/L	0.00003	15.19%
Ca 315.887†	33012937.3	499.2	mg/L	3.91	499.2	mg/L	3.91	0.78%
Cd 214.440†	400.8	-0.0023	mg/L	0.00003	-0.0023	mg/L	0.00003	1.38%
Co 228.616†	122.5	0.0039	mg/L	0.00005	0.0039	mg/L	0.00005	1.32%
Cr 205.560†	-8.9	0.0028	mg/L	0.00027	0.0028	mg/L	0.00027	9.75%
Cu 324.752†	-3241.2	0.0034	mg/L	0.00027	0.0034	mg/L	0.00027	8.02%
Fe 238.204†	11537069.7	194.6	mg/L	1.94	194.6	mg/L	1.94	1.00%
K 766.490†	192.8	0.1300	mg/L	0.18509	0.1300	mg/L	0.18509	142.43%
Li 610.362†	-34939.4	-0.0315	mg/L	0.00207	-0.0315	mg/L	0.00207	6.56%
Mg 279.077†	4585808.7	516.6	mg/L	5.82	516.6	mg/L	5.82	1.13%
Mn 257.610†	4260.2	-0.0031	mg/L	0.00028	-0.0031	mg/L	0.00028	9.01%
Mo 202.031†	-59.3	-0.0010	mg/L	0.00126	-0.0010	mg/L	0.00126	130.64%
Na 589.592†	223.4	0.0903	mg/L	0.02836	0.0903	mg/L	0.02836	31.40%
Ni 231.604†	74.2	0.0042	mg/L	0.00091	0.0042	mg/L	0.00091	21.78%
P 214.914†	-90.2	-0.0462	mg/L	0.00575	-0.0462	mg/L	0.00575	12.46%
Pb 220.353†	-264.5	0.0087	mg/L	0.00020	0.0087	mg/L	0.00020	2.33%
Sb 206.836†	36.8	-0.0164	mg/L	0.00414	-0.0164	mg/L	0.00414	25.23%
Se 196.026†	-13.9	-0.0035	mg/L	0.00228	-0.0035	mg/L	0.00228	64.13%
Si 251.611†	1668.6	0.0055	mg/L	0.00059	0.0055	mg/L	0.00059	10.88%
Sn 189.927†	-144.2	-0.0367	mg/L	0.00184	-0.0367	mg/L	0.00184	5.01%
Sr 421.552†	870.3	-0.0041	mg/L	0.00031	-0.0041	mg/L	0.00031	7.38%
Ti 334.940†	-8453.9	0.0001	mg/L	0.00022	0.0001	mg/L	0.00022	162.76%
Tl 190.801†	-81.6	0.0049	mg/L	0.00808	0.0049	mg/L	0.00808	164.04%
V 292.402†	-190.7	0.0024	mg/L	0.00017	0.0024	mg/L	0.00017	7.18%
Zn 213.857†	2301.2	0.0071	mg/L	0.00036	0.0071	mg/L	0.00036	5.04%

all < 2+ MDL

Analysis Begun

Start Time: 8/20/2007 9:44:14 AM
Logged In Analyst: optima
Spectrometer Model: Optima 4300 DV, S/N 077N1100901

Plasma On Time: 8/20/2007 7:55:17 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima\Sample Information\070820-1.sif
Batch ID:
Results Data Set: 070820-1
Results Library: C:\pe\optima\Results\Results.mdb

Sequence No.: 1
Sample ID: 070820ICSAB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 148
Date Collected: 8/20/2007 9:44:14 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 070820ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3695107.2	89.84	%	0.511				0.57%
Ag 328.068†	11289.2	0.2638	mg/L	0.00172	0.2638	mg/L	0.00172	0.65%
Al 308.215†	7645408.3	490.4	mg/L	2.88	490.4	mg/L	2.88	0.59%
As 188.979†	326.8	0.5148	mg/L	0.00676	0.5148	mg/L	0.00676	1.31%
B 249.772†	18143.8	0.5237	mg/L	0.00774	0.5237	mg/L	0.00774	1.48%
Ba 233.527†	34088.1	0.4987	mg/L	0.00684	0.4987	mg/L	0.00684	1.37%
Be 313.107†	538742.9	0.4974	mg/L	0.00453	0.4974	mg/L	0.00453	0.91%
Ca 315.887†	32095559.0	485.3	mg/L	2.14	485.3	mg/L	2.14	0.44%
Cd 214.440†	41904.6	0.4785	mg/L	0.01111	0.4785	mg/L	0.01111	2.32%
Co 228.616†	15388.8	0.4818	mg/L	0.00020	0.4818	mg/L	0.00020	0.04%
Cr 205.560†	4936.0	0.4934	mg/L	0.00143	0.4934	mg/L	0.00143	0.29%
Cu 324.752†	72955.1	0.5383	mg/L	0.00730	0.5383	mg/L	0.00730	1.36%
Fe 238.204†	11239685.3	189.5	mg/L	1.41	189.5	mg/L	1.41	0.74%
K 766.490†	7817.5	11.42	mg/L	0.082	11.42	mg/L	0.082	0.72%
Li 610.362†	43122.3	0.4470	mg/L	0.00099	0.4470	mg/L	0.00099	0.22%
Mg 279.077†	4464555.8	503.0	mg/L	9.21	503.0	mg/L	9.21	1.83%
Mn 257.610†	259223.9	0.4940	mg/L	0.00489	0.4940	mg/L	0.00489	0.99%
Mo 202.031†	2668.1	0.4906	mg/L	0.00101	0.4906	mg/L	0.00101	0.21%
Na 589.592†	11944.0	11.14	mg/L	0.013	11.14	mg/L	0.013	0.12%
Ni 231.604†	8482.6	0.4799	mg/L	0.00051	0.4799	mg/L	0.00051	0.11%
P 214.914†	236.7	0.4658	mg/L	0.00950	0.4658	mg/L	0.00950	2.04%
Pb 220.353†	1616.3	0.4931	mg/L	0.00015	0.4931	mg/L	0.00015	0.03%
Sb 206.836†	853.5	0.4701	mg/L	0.00248	0.4701	mg/L	0.00248	0.53%
Se 196.026†	225.3	0.4833	mg/L	0.00629	0.4833	mg/L	0.00629	1.30%
Si 251.611†	65476.0	2.492	mg/L	0.0248	2.492	mg/L	0.0248	0.99%
Sn 189.927†	833.7	0.4453	mg/L	0.00153	0.4453	mg/L	0.00153	0.34%
Sr 421.552†	42970.2	0.5088	mg/L	0.00607	0.5088	mg/L	0.00607	1.19%
Ti 334.940†	254682.2	0.5027	mg/L	0.00394	0.5027	mg/L	0.00394	0.78%
Tl 190.801†	357.9	0.4615	mg/L	0.00469	0.4615	mg/L	0.00469	1.02%
V 292.402†	16447.7	0.5041	mg/L	0.00373	0.5041	mg/L	0.00373	0.74%
Zn 213.857†	26192.6	0.4842	mg/L	0.00039	0.4842	mg/L	0.00039	0.08%

RUN LOG

Intrument: *ICP4*

Calib.file #: 070821-1 Calib. date: 8/21/2007

#	File_Name	Lab_Number	Dilution	Analyzed	Time
1	070821-1-001	Calib Blank 1	1	Aug/21/07	8:42:08 AM
2	070821-1-002	Calib Std 1	1	Aug/21/07	8:47:43 AM
3	070821-1-003	Calib Std 2	1	Aug/21/07	8:53:17 AM
4	070821-1-004	Calib std 3	1	Aug/21/07	8:58:52 AM
5	070821-1-005	070821ICV	1	Aug/21/07	9:04:28 AM
6	070821-1-006	ICB	1	Aug/21/07	9:10:04 AM
7	070821-1-007	RL CHK1 2XRL	1	Aug/21/07	9:15:37 AM
8	070821-1-008	RL CHK2 20PPB	1	Aug/21/07	9:21:10 AM
9	070821-1-009	070821ICV	1	Aug/21/07	9:28:28 AM
10	070821-1-010	ICB	1	Aug/21/07	9:34:05 AM
11	070821-1-011	7H20123-BLK1	1	Aug/21/07	9:39:50 AM
12	070821-1-012	7H20123-BS1	1	Aug/21/07	9:45:28 AM
13	070821-1-013	IQH1750-01	1	Aug/21/07	9:51:04 AM
14	070821-1-014	7H20123-MS1	1	Aug/21/07	9:56:50 AM
15	070821-1-015	7H20123-MSD1	1	Aug/21/07	10:02:37 AM
16	070821-1-016	IQH1199-01	1	Aug/21/07	10:08:21 AM
17	070821-1-017	7H20123-BS1	1	Aug/21/07	10:14:04 AM
18	070821-1-018	IQH1800-01	1	Aug/21/07	10:19:40 AM
19	070821-1-019	7H20130-MS1	1	Aug/21/07	10:25:21 AM
20	070821-1-020	7H20130-MSD1	1	Aug/21/07	10:31:02 AM
21	070821-1-021	070821CCV	1	Aug/21/07	10:36:44 AM
22	070821-1-022	CCB	1	Aug/21/07	10:42:20 AM
23	070821-1-023	BP CHK1	1	Aug/21/07	10:47:55 AM
24	070821-1-024	BP CHK2	1	Aug/21/07	10:53:28 AM
25	070821-1-025	IQH1797-06	1	Aug/21/07	10:57:43 AM
26	070821-1-026	IQH1797-10	1	Aug/21/07	11:03:21 AM
27	070821-1-027	IQH1413-01	1	Aug/21/07	11:08:56 AM
28	070821-1-028	IQH1734-22	1	Aug/21/07	11:14:36 AM
29	070821-1-029	IQH1561-02	1	Aug/21/07	11:20:14 AM
30	070821-1-030	IQH1697-01	1	Aug/21/07	11:25:51 AM
31	070821-1-031	IQH1697-02	1	Aug/21/07	11:31:27 AM
32	070821-1-032	070821CCV	1	Aug/21/07	11:37:05 AM
33	070821-1-033	CCB	1	Aug/21/07	11:42:40 AM
34	070821-1-034	7H20134-BLK1	1	Aug/21/07	11:57:17 AM
35	070821-1-035	7H20134-BS1	1	Aug/21/07	12:02:51 PM
36	070821-1-036	IQH1808-04	1	Aug/21/07	12:08:26 PM
37	070821-1-037	7H20134-MS1	1	Aug/21/07	12:14:03 PM
38	070821-1-038	7H20134-MSD1	1	Aug/21/07	12:19:41 PM
39	070821-1-039	IQH1808-03	1	Aug/21/07	12:25:19 PM
40	070821-1-040	IQH1808-02	1	Aug/21/07	12:30:54 PM
41	070821-1-041	IQH1808-01	1	Aug/21/07	12:36:30 PM
42	070821-1-042	IQH1642-01	1	Aug/21/07	12:42:09 PM
43	070821-1-043	IQH1644-01	1	Aug/21/07	12:47:44 PM
44	070821-1-044	070821CCV	1	Aug/21/07	12:53:20 PM
45	070821-1-045	CCB	1	Aug/21/07	12:59:00 PM
46	070821-1-046	IQH1641-01	1	Aug/21/07	1:07:41 PM
47	070821-1-047	IQH1093-01	1	Aug/21/07	1:13:28 PM
48	070821-1-048	IQH1641-01	1	Aug/21/07	1:20:47 PM
49	070821-1-049	070821CCV	1	Aug/21/07	1:26:23 PM
50	070821-1-050	CCB	1	Aug/21/07	1:31:59 PM
51	070821-1-051	7H20140-BLK1	1	Aug/21/07	1:38:09 PM
52	070821-1-052	7H20140-BS1	1	Aug/21/07	1:43:44 PM
53	070821-1-053	IQH1759-01	1	Aug/21/07	1:49:18 PM
54	070821-1-054	7H20140-MS1	1	Aug/21/07	1:54:56 PM
55	070821-1-055	7H20140-MSD1	1	Aug/21/07	2:00:34 PM
56	070821-1-056	IQH1759-02	1	Aug/21/07	2:06:12 PM
57	070821-1-057	IQH1759-03	1	Aug/21/07	2:11:50 PM
58	070821-1-058	IQH1759-04	1	Aug/21/07	2:17:27 PM
59	070821-1-059	IQH1759-05	1	Aug/21/07	2:23:05 PM
60	070821-1-060	IQH1759-06	1	Aug/21/07	2:28:42 PM
61	070821-1-061	070821CCV	1	Aug/21/07	2:34:20 PM
62	070821-1-062	CCB	1	Aug/21/07	2:39:56 PM
63	070821-1-063	BP CHK 1	1	Aug/21/07	2:44:56 PM

64	070821-1-064	BP CHK 2	1	Aug/21/07	2:50:30 PM
65	070821-1-065	BP CHK 2-	1	Aug/21/07	2:54:58 PM
66	070821-1-066	IQH1759-07	1	Aug/21/07	3:00:36 PM
67	070821-1-067	IQH1759-08	1	Aug/21/07	3:06:15 PM
68	070821-1-068	IQH1759-09	1	Aug/21/07	3:11:55 PM
69	070821-1-069	IQH1759-10	1	Aug/21/07	3:17:36 PM
70	070821-1-070	IQH1759-11	1	Aug/21/07	3:23:17 PM
71	070821-1-071	IQH1759-12	1	Aug/21/07	3:28:55 PM
72	070821-1-072	IQH1759-13	1	Aug/21/07	3:34:34 PM
73	070821-1-073	070821CCV	1	Aug/21/07	3:40:16 PM
74	070821-1-074	CCB	1	Aug/21/07	3:45:51 PM
75	070821-1-075	IQH1759-14	1	Aug/21/07	3:52:54 PM
76	070821-1-076	IQH1759-15	1	Aug/21/07	3:58:34 PM
77	070821-1-077	IQH1759-16	1	Aug/21/07	4:04:12 PM
78	070821-1-078	IQH1759-17	1	Aug/21/07	4:09:50 PM
79	070821-1-079	IQH1759-19	1	Aug/21/07	4:15:28 PM
80	070821-1-080	IQH1759-20	1	Aug/21/07	4:21:08 PM
81	070821-1-081	IQH1759-21	1	Aug/21/07	4:26:49 PM
82	070821-1-082	070821CCV	1	Aug/21/07	4:32:30 PM
83	070821-1-083	CCB	1	Aug/21/07	4:38:05 PM
84	070821-1-084	BP CHK 1	1	Aug/21/07	4:46:21 PM
85	070821-1-085	BP CHK 2	1	Aug/21/07	4:52:02 PM
86	070821-1-086	BP CHK 1	1	Aug/21/07	4:58:55 PM
87	070821-1-087	7H21111-BLK1	1	Aug/21/07	5:04:29 PM
88	070821-1-088	7H21111-BS1	1	Aug/21/07	5:10:04 PM
89	070821-1-089	IQH1884-01	1	Aug/21/07	5:15:42 PM
90	070821-1-090	7H21111-MS1	1	Aug/21/07	5:21:18 PM
91	070821-1-091	7H21111-MSD1	1	Aug/21/07	5:26:56 PM
92	070821-1-092	7H21073-BLK1	1	Aug/21/07	5:32:33 PM
93	070821-1-093	7H21073-BS1	1	Aug/21/07	5:38:08 PM
94	070821-1-094	070821CCV	1	Aug/21/07	5:43:44 PM
95	070821-1-095	CCB	1	Aug/21/07	5:49:20 PM
96	070821-1-096	Calib Blank 1	1	Aug/21/07	5:56:46 PM
97	070821-1-097	Reslope Std 1	1	Aug/21/07	6:02:21 PM
98	070821-1-098	070821CCV	1	Aug/21/07	6:07:58 PM
99	070821-1-099	CCB	1	Aug/21/07	6:13:35 PM
100	070821-1-100	IQH1759-40	1	Aug/21/07	6:19:09 PM
101	070821-1-101	7H21073-MS1	1	Aug/21/07	6:24:49 PM
102	070821-1-102	7H21073-MSD1	1	Aug/21/07	6:30:30 PM
103	070821-1-103	IQH1759-22	1	Aug/21/07	6:36:11 PM
104	070821-1-104	IQH1759-23	1	Aug/21/07	6:41:51 PM
105	070821-1-105	IQH1759-24	1	Aug/21/07	6:47:38 PM
106	070821-1-106	IQH1759-25	1	Aug/21/07	6:53:29 PM
107	070821-1-107	IQH1759-26	1	Aug/21/07	6:59:11 PM
108	070821-1-108	IQH1759-27	1	Aug/21/07	7:04:51 PM
109	070821-1-109	IQH1759-28	1	Aug/21/07	7:10:31 PM
110	070821-1-110	070821CCV	1	Aug/21/07	7:16:16 PM
111	070821-1-111	CCB	1	Aug/21/07	7:21:52 PM
112	070821-1-112	IQH1759-29	1	Aug/21/07	7:27:24 PM
113	070821-1-113	IQH1759-30	1	Aug/21/07	7:33:01 PM
114	070821-1-114	IQH1759-31	1	Aug/21/07	7:38:39 PM
115	070821-1-115	IQH1759-32	1	Aug/21/07	7:44:17 PM
116	070821-1-116	IQH1759-33	1	Aug/21/07	7:49:55 PM
117	070821-1-117	IQH1759-34	1	Aug/21/07	7:55:34 PM
118	070821-1-118	IQH1759-35	1	Aug/21/07	8:01:15 PM
119	070821-1-119	IQH1759-36	1	Aug/21/07	8:06:55 PM
120	070821-1-120	IQH1759-37	1	Aug/21/07	8:12:35 PM
121	070821-1-121	IQH1759-38	1	Aug/21/07	8:18:15 PM
122	070821-1-122	070821CCV	1	Aug/21/07	8:23:55 PM
123	070821-1-123	CCB	1	Aug/21/07	8:29:32 PM
124	070821-1-124	Calib Blank 1	1	Aug/21/07	8:34:45 PM
125	070821-1-125	Reslope Std 1	1	Aug/21/07	8:40:22 PM
126	070821-1-126	070821CCV	1	Aug/21/07	8:46:07 PM
127	070821-1-127	CCB	1	Aug/21/07	8:51:44 PM
128	070821-1-128	BP CHK 1	1	Aug/21/07	8:57:18 PM
129	070821-1-129	BP CHK 2	1	Aug/21/07	9:02:52 PM
130	070821-1-130	IQH1759-24	1	Aug/21/07	9:10:39 PM
131	070821-1-131	IQH1759-35	1	Aug/21/07	9:16:24 PM
132	070821-1-132	IQH1759-39	1	Aug/21/07	9:22:02 PM
133	070821-1-133	IQH1759-41	1	Aug/21/07	9:27:43 PM

METALS DIGESTION LOG (Solids)
Prep Method: (Circle One) 200.2 3050A 3050A (GF)

6010 Aqua Regia

Temp: 85°C
Analyst: CH
Dig Tube Lot:

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	Client	Sample ID	Sample Size (g)	Test	Matrix	1:1 HNO3 (mL)	conc HNO3 (mL)	1:1 HCL (mL)	H2O2 Add (mL)	Final Vol. (mL)	Comments
	☐	Method Blank	2.00 ± .04	CAM	Soil	0	2.5	7.5	3	50	
		LCS 7080346	2.00								
1		IQH1759-1	2.00								
		MS	2.00								
		SD	2.00								
2		-2	1.99								
3		-3	1.99								
4		-4	2.01								
5		-5	2.00								
6		-6	2.00								
7		-7	2.00								
8		-8	1.99								
9		-9	2.00								
10		-10	2.00								
11		-11	2.01								
12		-12	2.01								
13		-13	2.00								
14		-14	2.01								
15		-15	1.99								
16		-16	2.00								
17		-17	2.00								
18		-19	2.00								
19		-20	2.00								
20		-21	2.00								

A Spike ID#: 7080344
B Spike ID#: 7080345
Volume Spike Added LCS: A+B 1000µ
Volume Spike Added MS/SD:

HCl ID#: 7070354
HNO3 ID#: 7070445
H2O2 ID#: 7070344

Date: 8/20/07
Batch: 7H20140

METALS DIGESTION LOG (Solids)
Prep Method: (Circle One) 200.2 (3050A) 3050A (GF)

6010

Temp: 85°C 87
Analyst: ER
Dig Tube Lot: ✓

	Client	Sample ID	Sample Size (g)	Test	Matrix	1:1 HNO3 (mL)	conc HNO3 (mL)	~~1:1~~ HCL (mL)	H2O2 Add (mL)	Final Vol. (mL)	Comments
		Method Blank	2 ± 0.04	CAM	S	0	2.5	7.5	3	50	
		LCS 7080346	↓								
1	BROWNFIELD	IQH1759-40	2.00								
	CALDWELL	MS	2.01								
	-NV	SD	2.01								
2		-22	2.01								
3		-23	2.00								
4		-24	2.00								
5		-25	2.02								
6		-26	2.01								
7		-27	2.01								
8		-28	2.02								
9		-29	2.02								
10		-30	2.02								
11		-31	2.00								
12		-32	2.01								
13		-33	2.02								
14		-34	2.00								
15		-35	2.00								
16		-36	2.01								
17		-37	2.01								
18		-38	2.00								
19		-39	2.00								
20	↓	-41	2.01	↓	↓	↓	↓	↓	↓	↓	

A Spike ID#: 7080344
B Spike ID#: 7080345
Volume Spike Added LCS: A+B 100ugl
Volime Spike Added MS/SD: ↓

HCl ID#: 7070354
HNO3 ID#: 7070445
H2O2 ID#: 7070344

Date: 8/21/07
Batch: 7H21073

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ICP
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument: ICP4
Data File/Seq.#: 070827-2

Labnumber: RL CHK1 2XRL
Filename: 070827-2-007
Analyzed: Aug/27/07 6:13:37 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	0.1	0.147	147	50-150	
3	Arsenic	0.01	0.005	50	50-150	
5	Beryllium	0.01	0.0099	99	50-150	
6	Boron	0.1	0.1012	101	50-150	
7	Cadmium	0.01	0.0101	101	50-150	
8	Calcium	0.2	0.2198	110	50-150	
9	Chromium	0.01	0.0097	97	50-150	
12	Iron	0.08	0.0839	105	50-150	
13	Lead	0.01	0.0091	91	50-150	
15	Magnesium	0.04	0.0469	117	50-150	
16	Manganese	0.01	0.0103	103	50-150	
19	Phosphorus NT	1	0.0185	2	50-150	*
20	Potassium	1	1.0574	106	50-150	
24	Sodium	1	0.9739	97	50-150	
28	Titanium	0.01	0.0099	99	50-150	

(*) = Out of range

ICP
REPORTING LIMIT VERIFICATION SUMMARY (20 ppb)

Instrument:	ICP4	Labnumber:	RL CHK2 20PPB
Data File/Seq.#:	070827-2	Filename:	070827-2-008
		Analyzed:	Aug/27/07 6:19:10 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
2	Antimony	0.02	0.0178	89	50-150	
4	Barium	0.02	0.0199	100	50-150	
10	Cobalt	0.02	0.0199	100	50-150	
11	Copper	0.02	0.0204	102	50-150	
14	Lithium	0.02	0.0234	117	50-150	
17	Molybdenum	0.02	0.0198	99	50-150	
18	Nickel	0.02	0.0204	102	50-150	
21	Selenium	0.02	0.0199	100	50-150	
22	Silicon	0.1	0.1238	124	50-150	
23	Silver	0.01	0.009	90	50-150	
25	Strontium	0.02	0.0201	100	50-150	
26	Thallium	0.02	0.0216	108	50-150	
27	Tin	0.02	0.0208	104	50-150	
29	Vanadium	0.02	0.0204	102	50-150	
30	Zinc	0.02	0.0257	129	50-150	

(*) = Out of range

ICP
INITIAL CALIBRATION VERIFICATION SUMMARY

Instrument: ICP4
Data File/Seq.#: 070827-2

Labnumber: 070827ICV
Filename: 070827-2-009
Analyzed: Aug/27/07 6:36:19 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	2	1.966	98	90-110	
2	Antimony	2	1.966	98	90-110	
3	Arsenic	2	1.961	98	90-110	
4	Barium	2	2.057	103	90-110	
5	Beryllium	2	1.977	99	90-110	
6	Boron	2	2.042	102	90-110	
7	Cadmium	2	1.891	95	90-110	
8	Calcium	2	1.95	98	90-110	
9	Chromium	2	1.968	98	90-110	
10	Cobalt	2	1.935	97	90-110	
11	Copper	2	1.947	97	90-110	
12	Iron	2	1.969	98	90-110	
13	Lead	2	1.965	98	90-110	
14	Lithium	2	1.905	95	90-110	
15	Magnesium	2	1.935	97	90-110	
16	Manganese	2	1.944	97	90-110	
17	Molybdenum	2	1.945	97	90-110	
18	Nickel	2	1.93	97	90-110	
19	Phosphorus	2	1.958	98	90-110	
20	Potassium	20	19.564	98	90-110	
21	Selenium	2	1.944	97	90-110	
22	Silicon	10	9.755	98	90-110	
23	Silver	1	0.981	98	90-110	
24	Sodium	20	19.542	98	90-110	
25	Strontium	2	1.937	97	90-110	
26	Thallium	2	2.005	100	90-110	
27	Tin	2	1.956	98	90-110	
28	Titanium	2	1.986	99	90-110	
29	Vanadium	2	1.967	98	90-110	
30	Zinc	2	1.924	96	90-110	

(*) = Out of range

ICP
INITIAL CALIBRATION BLANK SUMMARY

Instrument:	ICP4	Labnumber:	ICB	
Data File/Seq.#:	070827-2	Filename:	070827-2-010	
		Analyzed:	Aug/27/07	6:45:03 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	0.007	
2	Antimony	0.01	0	
3	Arsenic	0.005	0	
4	Barium	0.01	0	
5	Beryllium	0.05	0	
6	Boron	0.05	0.026	
7	Cadmium	0.005	0	
8	Calcium	0.1	0.006	
9	Chromium	0.005	0	
10	Cobalt	0.01	0	
11	Copper	0.01	0	
12	Iron	0.04	0	
13	Lead	0.005	-0.003	
14	Lithium	0.05	-0.004	
15	Magnesium	0.5	0.001	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0.001	
18	Nickel	0.01	0	
19	Phosphorus	0.5	0.001	
20	Potassium	0.5	0.076	
21	Selenium	0.01	-0.007	
22	Silicon NT	0.05	0.131	*
23	Silver	0.01	0	
24	Sodium	0.5	-0.036	
25	Strontium	0.02	0	
26	Thallium	0.01	0.003	
27	Tin	0.1	0.001	
28	Titanium	0.005	0	
29	Vanadium	0.01	0.001	
30	Zinc	0.02	0	

(*) = Out of range

only assoc. w/ EB

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: **ICP4**
Data File/Seq.#: 070827-2

Labnumber: 070827CCV
Filename: 070827-2-021
Analyzed: Aug/27/07 7:46:39 PM

	Analyte	Conc (mg/L) True	Conc (mg/L) Found	% Rec	%Limits	Q
1	Aluminum	1	0.962	96	90-110	
2	Antimony	1	0.986	99	90-110	
3	Arsenic	1	0.989	99	90-110	
4	Barium	1	0.998	100	90-110	
5	Beryllium	1	1.003	100	90-110	
6	Boron	1	1	100	90-110	
7	Cadmium	1	0.99	99	90-110	
8	Calcium	10	10.025	100	90-110	
9	Chromium	1	0.994	99	90-110	
10	Cobalt	1	0.994	99	90-110	
11	Copper	1	0.992	99	90-110	
12	Iron	1	0.997	100	90-110	
13	Lead	1	0.992	99	90-110	
14	Lithium	1	1.006	101	90-110	
15	Magnesium	1	1.005	100	90-110	
16	Manganese	1	1	100	90-110	
17	Molybdenum	1	0.993	99	90-110	
18	Nickel	1	0.999	100	90-110	
19	Phosphorus	1	0.987	99	90-110	
20	Potassium	10	9.981	100	90-110	
21	Selenium	1	1.001	100	90-110	
22	Silicon	5	4.988	100	90-110	
23	Silver	0.5	0.508	102	90-110	
24	Sodium	10	10.127	101	90-110	
25	Strontium	1	1.014	101	90-110	
26	Thallium	1	0.993	99	90-110	
27	Tin	1	0.998	100	90-110	
28	Titanium	1	0.992	99	90-110	
29	Vanadium	1	0.992	99	90-110	
30	Zinc	1	0.997	100	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	ICP4	Labnumber:	CCB	
Data File/Seq.#:	070827-2	Filename:	070827-2-022	
		Analyzed:	Aug/27/07	7:52:15 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	0.006	
2	Antimony	0.01	-0.001	
3	Arsenic	0.005	-0.009	*
4	Barium	0.01	0	
5	Beryllium	0.05	0	
6	Boron	0.05	0.026	
7	Cadmium	0.005	0	
8	Calcium	0.1	0.011	
9	Chromium	0.005	0	
10	Cobalt	0.01	0	
11	Copper	0.01	0	
12	Iron	0.04	0	
13	Lead	0.005	-0.001	
14	Lithium	0.05	-0.006	
15	Magnesium	0.5	-0.012	
16	Manganese	0.02	0	
17	Molybdenum	0.02	-0.001	
18	Nickel	0.01	0.001	
19	Phosphorus	0.5	0.009	
20	Potassium	0.5	0.037	
21	Selenium	0.01	-0.004	
22	Silicon	0.05	0.128	*
23	Silver	0.01	-0.001	
24	Sodium	0.5	-0.025	
25	Strontium	0.02	0.001	
26	Thallium	0.01	0.005	
27	Tin	0.1	0.001	
28	Titanium	0.005	0	
29	Vanadium	0.01	0	
30	Zinc	0.02	0.005	

(*) = Out of range

only assoc. w/ EB

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: ICP4
Data File/Seq.#: 070827-2

Labnumber: 070827CCV
Filename: 070827-2-091
Analyzed: Aug/28/07 2:23:14 AM

	Analyte	Conc (mg/L) True	Conc (mg/L) Found	% Rec	%Limits	Q
1	Aluminum	1	0.951	95	90-110	
2	Antimony	1	0.964	96	90-110	
3	Arsenic	1	0.983	98	90-110	
4	Barium	1	0.988	99	90-110	
5	Beryllium	1	0.999	100	90-110	
6	Boron	1	0.99	99	90-110	
7	Cadmium	1	0.997	100	90-110	
8	Calcium	10	9.965	100	90-110	
9	Chromium	1	0.981	98	90-110	
10	Cobalt	1	0.984	98	90-110	
11	Copper	1	0.985	99	90-110	
12	Iron	1	0.988	99	90-110	
13	Lead	1	0.992	99	90-110	
14	Lithium	1	0.975	98	90-110	
15	Magnesium	1	0.983	98	90-110	
16	Manganese	1	0.984	98	90-110	
17	Molybdenum	1	0.987	99	90-110	
18	Nickel	1	0.98	98	90-110	
19	Phosphorus	1	1.006	101	90-110	
20	Potassium	10	9.849	98	90-110	
21	Selenium	1	0.977	98	90-110	
22	Silicon	5	4.992	100	90-110	
23	Silver	0.5	0.482	96	90-110	
24	Sodium	10	10.161	102	90-110	
25	Strontium	1	0.979	98	90-110	
26	Thallium	1	0.972	97	90-110	
27	Tin	1	0.988	99	90-110	
28	Titanium	1	0.975	98	90-110	
29	Vanadium	1	0.996	100	90-110	
30	Zinc	1	0.976	98	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	ICP4	Labnumber:	CCB	
Data File/Seq.#:	070827-2	Filename:	070827-2-092	
		Analyzed:	Aug/28/07	2:28:48 AM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.002	
2	Antimony	0.01	-0.004	
3	Arsenic	0.005	-0.001	
4	Barium	0.01	0	
5	Beryllium	0.05	0.001	
6	Boron	0.05	0.016	
7	Cadmium	0.005	0	
8	Calcium	0.1	0.009	
9	Chromium	0.005	0	
10	Cobalt	0.01	0	
11	Copper	0.01	0	
12	Iron	0.04	0.001	
13	Lead	0.005	-0.003	
14	Lithium	0.05	0	
15	Magnesium	0.5	0.001	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0.006	
18	Nickel	0.01	0.001	
19	Phosphorus	0.5	0.014	
20	Potassium	0.5	0.165	
21	Selenium	0.01	-0.005	
22	Silicon	0.05	0.067	*
23	Silver	0.01	0	
24	Sodium	0.5	0.211	
25	Strontium	0.02	0.001	
26	Thallium	0.01	0.008	
27	Tin	0.1	0	
28	Titanium	0.005	0.001	
29	Vanadium	0.01	0	
30	Zinc	0.02	-0.001	

(*) = Out of range

only assoc. w/ EB

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: ICP4
Data File/Seq.#: 070827-2

Labnumber: 070827CCV
Filename: 070827-2-103
Analyzed: Aug/28/07 3:30:57 AM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.952	95	90-110	
2	Antimony	1	0.986	99	90-110	
3	Arsenic	1	0.998	100	90-110	
4	Barium	1	0.986	99	90-110	
5	Beryllium	1	1.002	100	90-110	
6	Boron	1	0.994	99	90-110	
7	Cadmium	1	0.991	99	90-110	
8	Calcium	10	10.066	101	90-110	
9	Chromium	1	0.995	100	90-110	
10	Cobalt	1	0.998	100	90-110	
11	Copper	1	0.978	98	90-110	
12	Iron	1	0.987	99	90-110	
13	Lead	1	1.006	101	90-110	
14	Lithium	1	0.98	98	90-110	
15	Magnesium	1	0.997	100	90-110	
16	Manganese	1	0.982	98	90-110	
17	Molybdenum	1	0.998	100	90-110	
18	Nickel	1	0.997	100	90-110	
19	Phosphorus	1	1.025	102	90-110	
20	Potassium	10	9.828	98	90-110	
21	Selenium	1	0.997	100	90-110	
22	Silicon	5	4.958	99	90-110	
23	Silver	0.5	0.487	97	90-110	
24	Sodium	10	9.76	98	90-110	
25	Strontium	1	0.994	99	90-110	
26	Thallium	1	0.982	98	90-110	
27	Tin	1	1.001	100	90-110	
28	Titanium	1	0.973	97	90-110	
29	Vanadium	1	0.992	99	90-110	
30	Zinc	1	0.982	98	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	ICP4	Labnumber:	CCB	
Data File/Seq.#:	070827-2	Filename:	070827-2-104	
		Analyzed:	Aug/28/07	3:36:32 AM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.001	
2	Antimony	0.01	-0.001	
3	Arsenic	0.005	-0.004	
4	Barium	0.01	0	
5	Beryllium	0.05	0.001	
6	Boron	0.05	0.015	
7	Cadmium	0.005	0	
8	Calcium	0.1	0.01	
9	Chromium	0.005	0	
10	Cobalt	0.01	0.001	
11	Copper	0.01	-0.001	
12	Iron	0.04	0.001	
13	Lead	0.005	-0.002	
14	Lithium	0.05	0.001	
15	Magnesium	0.5	0.003	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0.003	
18	Nickel	0.01	0.001	
19	Phosphorus	0.5	0.013	
20	Potassium	0.5	0.005	
21	Selenium	0.01	-0.005	
22	Silicon	0.05	0.061	*
23	Silver	0.01	0.001	
24	Sodium	0.5	0.001	
25	Strontium	0.02	0.001	
26	Thallium	0.01	0.003	
27	Tin	0.1	0.001	
28	Titanium	0.005	0	
29	Vanadium	0.01	0	
30	Zinc	0.02	-0.001	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: ICP4
Data File/Seq.#: 070827-2

Labnumber: 070827CCV
Filename: 070827-2-115
Analyzed: Aug/28/07 4:39:37 AM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.976	98	90-110	
2	Antimony	1	0.982	98	90-110	
3	Arsenic	1	1.004	100	90-110	
4	Barium	1	0.998	100	90-110	
5	Beryllium	1	1.007	101	90-110	
6	Boron	1	0.999	100	90-110	
7	Cadmium	1	0.998	100	90-110	
8	Calcium	10	10.208	102	90-110	
9	Chromium	1	0.998	100	90-110	
10	Cobalt	1	1.003	100	90-110	
11	Copper	1	0.987	99	90-110	
12	Iron	1	1.036	104	90-110	
13	Lead	1	1.008	101	90-110	
14	Lithium	1	0.987	99	90-110	
15	Magnesium	1	1.031	103	90-110	
16	Manganese	1	1.002	100	90-110	
17	Molybdenum	1	1.001	100	90-110	
18	Nickel	1	1.001	100	90-110	
19	Phosphorus	1	1.013	101	90-110	
20	Potassium	10	10.196	102	90-110	
21	Selenium	1	1.006	101	90-110	
22	Silicon	5	5.058	101	90-110	
23	Silver	0.5	0.495	99	90-110	
24	Sodium	10	10.201	102	90-110	
25	Strontium	1	1.005	100	90-110	
26	Thallium	1	0.996	100	90-110	
27	Tin	1	1.006	101	90-110	
28	Titanium	1	0.985	99	90-110	
29	Vanadium	1	0.995	100	90-110	
30	Zinc	1	0.993	99	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	ICP4	Labnumber:	CCB	
Data File/Seq.#:	070827-2	Filename:	070827-2-116	
		Analyzed:	Aug/28/07	4:45:38 AM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.013	
2	Antimony	0.01	-0.004	
3	Arsenic	0.005	-0.002	
4	Barium	0.01	0	
5	Beryllium	0.05	0.001	
6	Boron	0.05	0.012	
7	Cadmium	0.005	0	
8	Calcium	0.1	0.023	
9	Chromium	0.005	0	
10	Cobalt	0.01	0	
11	Copper	0.01	-0.001	
12	Iron	0.04	0.003	
13	Lead	0.005	0	
14	Lithium	0.05	0	
15	Magnesium	0.5	-0.005	
16	Manganese	0.02	0.001	
17	Molybdenum	0.02	0.002	
18	Nickel	0.01	0.001	
19	Phosphorus	0.5	0.014	
20	Potassium	0.5	-0.082	
21	Selenium	0.01	-0.005	
22	Silicon	0.05	0.064	*
23	Silver	0.01	-0.001	
24	Sodium	0.5	0.043	
25	Strontium	0.02	0.001	
26	Thallium	0.01	0.006	
27	Tin	0.1	0.001	
28	Titanium	0.005	0	
29	Vanadium	0.01	0	
30	Zinc	0.02	-0.001	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: ICP4
Data File/Seq.#: 070827-2

Labnumber: 070827CCV
Filename: 070827-2-181
Analyzed: Aug/28/07 10:51:48 AM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.963	96	90-110	
2	Antimony	1	1.008	101	90-110	
3	Arsenic	1	1.041	104	90-110	
4	Barium	1	1.013	101	90-110	
5	Beryllium	1	1.027	103	90-110	
6	Boron	1	1.035	103	90-110	
7	Cadmium	1	1.042	104	90-110	
8	Calcium	10	10.42	104	90-110	
9	Chromium	1	1.016	102	90-110	
10	Cobalt	1	1.035	103	90-110	
11	Copper	1	0.994	99	90-110	
12	Iron	1	1.027	103	90-110	
13	Lead	1	1.039	104	90-110	
14	Lithium	1	1.033	103	90-110	
15	Magnesium	1	1.047	105	90-110	
16	Manganese	1	1.021	102	90-110	
17	Molybdenum	1	1.012	101	90-110	
18	Nickel	1	1.036	104	90-110	
19	Phosphorus	1	1.049	105	90-110	
20	Potassium	10	10.066	101	90-110	
21	Selenium	1	1.039	104	90-110	
22	Silicon	5	5.21	104	90-110	
23	Silver	0.5	0.507	101	90-110	
24	Sodium	10	10.375	104	90-110	
25	Strontium	1	0.997	100	90-110	
26	Thallium	1	1.022	102	90-110	
27	Tin	1	1.047	105	90-110	
28	Titanium	1	1.001	100	90-110	
29	Vanadium	1	1.011	101	90-110	
30	Zinc	1	1.02	102	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	ICP4	Labnumber:	CCB	
Data File/Seq.#:	070827-2	Filename:	070827-2-182	
		Analyzed:	Aug/28/07	10:57:20 AM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.017	
2	Antimony	0.01	-0.006	
3	Arsenic	0.005	-0.001	
4	Barium	0.01	0	
5	Beryllium	0.05	0	
6	Boron	0.05	0.019	
7	Cadmium	0.005	0	
8	Calcium	0.1	0.005	
9	Chromium	0.005	0	
10	Cobalt	0.01	0	
11	Copper	0.01	0	
12	Iron	0.04	0.001	
13	Lead	0.005	-0.001	
14	Lithium	0.05	0.025	
15	Magnesium	0.5	0.006	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0.001	
18	Nickel	0.01	0.001	
19	Phosphorus	0.5	0.005	
20	Potassium	0.5	-0.043	
21	Selenium	0.01	-0.005	
22	Silicon	0.05	0.087	*
23	Silver	0.01	0	
24	Sodium	0.5	-0.061	
25	Strontium	0.02	0	
26	Thallium	0.01	0.007	
27	Tin	0.1	0.001	
28	Titanium	0.005	0	
29	Vanadium	0.01	-0.001	
30	Zinc	0.02	-0.002	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: ICP4
Data File/Seq.#: 070827-2

Labnumber: 070827CCV
Filename: 070827-2-193
Analyzed: Aug/28/07 12:10:55 PM

	Analyte	Conc (mg/L) True	Conc (mg/L) Found	% Rec	%Limits	Q
1	Aluminum	1	0.967	97	90-110	
2	Antimony	1	1.008	101	90-110	
3	Arsenic	1	1.042	104	90-110	
4	Barium	1	1.016	102	90-110	
5	Beryllium	1	1.02	102	90-110	
6	Boron	1	1.035	103	90-110	
7	Cadmium	1	1.043	104	90-110	
8	Calcium	10	10.39	104	90-110	
9	Chromium	1	1.016	102	90-110	
10	Cobalt	1	1.038	104	90-110	
11	Copper	1	0.993	99	90-110	
12	Iron	1	1.031	103	90-110	
13	Lead	1	1.037	104	90-110	
14	Lithium	1	1.026	103	90-110	
15	Magnesium	1	1.056	106	90-110	
16	Manganese	1	1.023	102	90-110	
17	Molybdenum	1	1.011	101	90-110	
18	Nickel	1	1.035	103	90-110	
19	Phosphorus	1	1.043	104	90-110	
20	Potassium	10	9.978	100	90-110	
21	Selenium	1	1.04	104	90-110	
22	Silicon	5	5.221	104	90-110	
23	Silver	0.5	0.51	102	90-110	
24	Sodium	10	10.265	103	90-110	
25	Strontium	1	0.985	99	90-110	
26	Thallium	1	1.021	102	90-110	
27	Tin	1	1.048	105	90-110	
28	Titanium	1	1.003	100	90-110	
29	Vanadium	1	1.004	100	90-110	
30	Zinc	1	1.021	102	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	ICP4	Labnumber:	CCB	
Data File/Seq.#:	070827-2	Filename:	070827-2-194	
		Analyzed:	Aug/28/07	12:16:29 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.016	
2	Antimony	0.01	-0.008	
3	Arsenic	0.005	-0.002	
4	Barium	0.01	0	
5	Beryllium	0.05	0	
6	Boron	0.05	0.018	
7	Cadmium	0.005	0	
8	Calcium	0.1	0.004	
9	Chromium	0.005	0	
10	Cobalt	0.01	0	
11	Copper	0.01	-0.001	
12	Iron	0.04	0.001	
13	Lead	0.005	-0.001	
14	Lithium	0.05	0.03	
15	Magnesium	0.5	0.006	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0	
18	Nickel	0.01	0.001	
19	Phosphorus	0.5	0.014	
20	Potassium	0.5	0.084	
21	Selenium	0.01	-0.001	
22	Silicon	0.05	0.082	*
23	Silver	0.01	0	
24	Sodium	0.5	-0.074	
25	Strontium	0.02	0	
26	Thallium	0.01	0.003	
27	Tin	0.1	0.001	
28	Titanium	0.005	0	
29	Vanadium	0.01	-0.001	
30	Zinc	0.02	-0.002	

(*) = Out of range

ICP
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument:	ICP4	Labnumber:	BP CHK 1
Data File/Seq.#:	070827-2	Filename:	070827-2-195
		Analyzed:	Aug/28/07 12:22:01 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	0.1	0.14	140	50-150	
3	Arsenic	0.01	0.0122	122	50-150	
5	Beryllium	0.01	0.0102	102	50-150	
6	Boron	0.1	0.1005	101	50-150	
7	Cadmium	0.01	0.0104	104	50-150	
8	Calcium	0.2	0.2732	137	50-150	
9	Chromium	0.01	0.0099	99	50-150	
12	Iron	0.08	0.0876	110	50-150	
13	Lead	0.01	0.0107	107	50-150	
15	Magnesium	0.04	0.0467	117	50-150	
16	Manganese	0.01	0.0105	105	50-150	
19	Phosphorus NT	1	0.0184	2	50-150	*
20	Potassium	1	1.0101	101	50-150	
24	Sodium	1	1.0871	109	50-150	
28	Titanium	0.01	0.0098	98	50-150	

(*) = Out of range

not a target

ICP
REPORTING LIMIT VERIFICATION SUMMARY (20 ppb)

Instrument: ICP4
Data File/Seq.#: 070827-2

Labnumber: BP CHK 2
Filename: 070827-2-196
Analyzed: Aug/28/07 12:26:11 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
2	Antimony	0.02	0.0172	86	50-150	
4	Barium	0.02	0.0204	102	50-150	
10	Cobalt	0.02	0.0208	104	50-150	
11	Copper	0.02	0.0183	92	50-150	
14	Lithium NT	0.02	0.0534	267	50-150	
17	Molybdenum	0.02	0.0205	103	50-150	
18	Nickel	0.02	0.0215	108	50-150	
21	Selenium	0.02	0.0222	111	50-150	
22	Silicon NT	0.1	0.1789	179	50-150	
23	Silver	0.01	0.0099	99	50-150	
25	Strontium	0.02	0.0194	97	50-150	
26	Thallium	0.02	0.0271	136	50-150	
27	Tin	0.02	0.0229	115	50-150	
29	Vanadium	0.02	0.018	90	50-150	
30	Zinc	0.02	0.0196	98	50-150	

(*) = Out of range

Analysis Begun

Start Time: 8/27/2007 9:42:37 AM
Plasma On Time: 8/27/2007 7:29:17 AM
Logged In Analyst: optima
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N1100901Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima\Sample Information\070827-1.sif
Batch ID:
Results Data Set: 070827-1
Results Library: C:\pe\optima\Results\Results.mdb

Sequence No.: 1
Sample ID: 070827ICSA/SIC-
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 147
Date Collected: 8/27/2007 9:42:37 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 070827ICSA/SIC-

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3383089.1	94.56	%	0.817				0.86%
Ag 328.068†	-4583.8	-0.0065	mg/L	0.00011	-0.0065	mg/L	0.00011	1.74%
Al 308.215†	6998823.2	468.0	mg/L	7.45	468.0	mg/L	7.45	1.59%
As 188.979†	-64.4	0.0157	mg/L	0.00826	0.0157	mg/L	0.00826	52.55%
B 249.772†	4919.0	-0.0039	mg/L	0.00792	-0.0039	mg/L	0.00792	204.29%
Ba 233.527†	142.3	0.0021	mg/L	0.00004	0.0021	mg/L	0.00004	1.77%
Be 313.107†	-526.3	-0.0005	mg/L	0.00008	-0.0005	mg/L	0.00008	15.32%
Ca 315.887†	30185979.0	484.8	mg/L	6.84	484.8	mg/L	6.84	1.41%
Cd 214.440†	243.5	-0.0037	mg/L	0.00009	-0.0037	mg/L	0.00009	2.51%
Co 228.616†	-21.9	-0.0007	mg/L	0.00016	-0.0007	mg/L	0.00016	22.88%
Cr 205.560†	-20.9	0.0013	mg/L	0.00006	0.0013	mg/L	0.00006	4.60%
Cu 324.752†	-3673.5	-0.0011	mg/L	0.00006	-0.0011	mg/L	0.00006	5.61%
Fe 238.204†	10772420.4	182.9	mg/L	3.18	182.9	mg/L	3.18	1.74%
K 766.490†	110.0	0.0041	mg/L	0.02773	0.0041	mg/L	0.02773	670.44%
Li 610.362†	-29264.6	-0.0044	mg/L	0.00175	-0.0044	mg/L	0.00175	39.42%
Mg 279.077†	4089579.5	486.9	mg/L	4.59	486.9	mg/L	4.59	0.94%
Mn 257.610†	-4356.3	-0.0195	mg/L	0.00013	-0.0195	mg/L	0.00013	0.65%
Mo 202.031†	-67.1	-0.0032	mg/L	0.00052	-0.0032	mg/L	0.00052	16.13%
Na 589.592†	-24.9	-0.1384	mg/L	0.02219	-0.1384	mg/L	0.02219	16.04%
Ni 231.604†	-37.2	-0.0022	mg/L	0.00021	-0.0022	mg/L	0.00021	9.33%
P 214.914†	-93.6	-0.0510	mg/L	0.00680	-0.0510	mg/L	0.00680	13.34%
Pb 220.353†	-239.0	0.0091	mg/L	0.00319	0.0091	mg/L	0.00319	35.08%
Sb 206.836†	33.5	-0.0145	mg/L	0.00670	-0.0145	mg/L	0.00670	46.06%
Se 196.026†	-14.0	-0.0078	mg/L	0.00041	-0.0078	mg/L	0.00041	5.20%
Si 251.611†	842.8	-0.0223	mg/L	0.00149	-0.0223	mg/L	0.00149	6.69%
Sn 189.927†	-144.4	-0.0419	mg/L	0.00207	-0.0419	mg/L	0.00207	4.94%
Sr 421.552†	761.1	-0.0057	mg/L	0.00077	-0.0057	mg/L	0.00077	13.54%
Ti 334.940†	-8378.1	-0.0007	mg/L	0.00024	-0.0007	mg/L	0.00024	32.83%
Tl 190.801†	-80.3	-0.0057	mg/L	0.00069	-0.0057	mg/L	0.00069	12.16%
V 292.402†	-166.6	0.0027	mg/L	0.00042	0.0027	mg/L	0.00042	15.27%
Zn 213.857†	927.0	-0.0171	mg/L	0.00039	-0.0171	mg/L	0.00039	2.29%

all results < 2x MDL

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Analysis Begun

Start Time: 8/27/2007 9:52:17 AM
Logged In Analyst: optima
Spectrometer Model: Optima 4300 DV, S/N 077N1100901

Plasma On Time: 8/27/2007 7:29:17 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima\Sample Information\070827-1.sif
Batch ID:
Results Data Set: 070827-1
Results Library: C:\pe\optima\Results\Results.mdb

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Sequence No.: 1
Sample ID: 070827ICSAB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 148
Date Collected: 8/27/2007 9:52:18 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 070827ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3454999.5	96.57	%	0.990				1.03%
Ag 328.068†	9354.8	0.2411	mg/L	0.00748	0.2411	mg/L	0.00748	3.10%
Al 308.215†	7022349.8	469.6	mg/L	7.11	469.6	mg/L	7.11	1.51%
As 188.979†	295.9	0.4953	mg/L	0.00068	0.4953	mg/L	0.00068	0.14%
B 249.772†	16435.2	0.4823	mg/L	0.01399	0.4823	mg/L	0.01399	2.90%
Ba 233.527†	32128.6	0.4776	mg/L	0.00585	0.4776	mg/L	0.00585	1.22%
Be 313.107†	532536.0	0.4965	mg/L	0.00293	0.4965	mg/L	0.00293	0.59%
Ca 315.887†	30101022.3	483.4	mg/L	8.97	483.4	mg/L	8.97	1.86%
Cd 214.440†	40083.0	0.4554	mg/L	0.00469	0.4554	mg/L	0.00469	1.03%
Co 228.616†	14336.8	0.4700	mg/L	0.00762	0.4700	mg/L	0.00762	1.62%
Cr 205.560†	4587.4	0.4802	mg/L	0.00725	0.4802	mg/L	0.00725	1.51%
Cu 324.752†	69893.6	0.5145	mg/L	0.00352	0.5145	mg/L	0.00352	0.68%
Fe 238.204†	10779945.0	183.1	mg/L	2.77	183.1	mg/L	2.77	1.51%
K 766.490†	8071.6	10.96	mg/L	0.086	10.96	mg/L	0.086	0.78%
Li 610.362†	44381.3	0.4554	mg/L	0.00847	0.4554	mg/L	0.00847	1.86%
Mg 279.077†	4124641.9	491.1	mg/L	13.10	491.1	mg/L	13.10	2.67%
Mn 257.610†	239653.3	0.4708	mg/L	0.00575	0.4708	mg/L	0.00575	1.22%
Mo 202.031†	2548.3	0.4776	mg/L	0.00686	0.4776	mg/L	0.00686	1.44%
Na 589.592†	10821.3	10.83	mg/L	0.016	10.83	mg/L	0.016	0.15%
Ni 231.604†	7912.4	0.4704	mg/L	0.00675	0.4704	mg/L	0.00675	1.43%
P 214.914†	250.3	0.4606	mg/L	0.00883	0.4606	mg/L	0.00883	1.92%
Pb 220.353†	1583.6	0.4799	mg/L	0.01113	0.4799	mg/L	0.01113	2.32%
Sb 206.836†	793.1	0.4593	mg/L	0.00592	0.4593	mg/L	0.00592	1.29%
Se 196.026†	192.7	0.4534	mg/L	0.02600	0.4534	mg/L	0.02600	5.73%
Si 251.611†	60558.8	2.384	mg/L	0.0292	2.384	mg/L	0.0292	1.23%
Sn 189.927†	758.4	0.4315	mg/L	0.00671	0.4315	mg/L	0.00671	1.55%
Sr 421.552†	45084.0	0.4988	mg/L	0.00299	0.4988	mg/L	0.00299	0.60%
Ti 334.940†	235349.1	0.4822	mg/L	0.00533	0.4822	mg/L	0.00533	1.10%
Tl 190.801†	316.8	0.4464	mg/L	0.00718	0.4464	mg/L	0.00718	1.61%
V 292.402†	16044.2	0.4805	mg/L	0.00314	0.4805	mg/L	0.00314	0.65%
Zn 213.857†	23663.3	0.4626	mg/L	0.00594	0.4626	mg/L	0.00594	1.29%

RUN LOG

Intrument: ***ICP4***

Calib.file #: 070827-2 Calib. date: 8/27/2007

#	File_Name	Lab_Number	Dilution	Analyzed	Time
1	070827-2-001	Calib Blank 1	1	Aug/27/07	5:32:28 PM
2	070827-2-002	Calib Std 1	1	Aug/27/07	5:38:04 PM
3	070827-2-003	Calib Std 2	1	Aug/27/07	5:43:37 PM
4	070827-2-004	Calib std 3	1	Aug/27/07	5:49:12 PM
5	070827-2-005	070827ICV	1	Aug/27/07	6:01:24 PM
6	070827-2-006	ICB	1	Aug/27/07	6:07:01 PM
7	070827-2-007	RL CHK1 2XRL	1	Aug/27/07	6:12:34 PM
8	070827-2-008	RL CHK2 20PPB	1	Aug/27/07	6:18:07 PM
9	070827-2-009	070827ICV	1	Aug/27/07	6:35:14 PM
10	070827-2-010	ICB	1	Aug/27/07	6:43:53 PM
11	070827-2-011	7H25029-BLK1	1	Aug/27/07	6:49:37 PM
12	070827-2-012	7H25029-BS1	1	Aug/27/07	6:55:13 PM
13	070827-2-013	IQH1986-01	1	Aug/27/07	7:00:49 PM
14	070827-2-014	7H25029-MS1	1	Aug/27/07	7:06:25 PM
15	070827-2-015	7H25029-MSD1	1	Aug/27/07	7:12:02 PM
16	070827-2-016	IQH1874-03	1	Aug/27/07	7:17:38 PM
17	070827-2-017	7H25029-MS2	1	Aug/27/07	7:23:14 PM
18	070827-2-018	IQH1984-01	1	Aug/27/07	7:28:49 PM
19	070827-2-019	IQH1984-02	1	Aug/27/07	7:34:24 PM
20	070827-2-020	IQH1985-06	1	Aug/27/07	7:40:00 PM
21	070827-2-021	070827CCV	1	Aug/27/07	7:45:35 PM
22	070827-2-022	CCB	1	Aug/27/07	7:51:13 PM
23	070827-2-023	IQH1985-07	1	Aug/27/07	7:55:57 PM
24	070827-2-024	IQH1985-08	1	Aug/27/07	8:01:32 PM
25	070827-2-025	IQH1985-09	1	Aug/27/07	8:07:08 PM
26	070827-2-026	IQH1985-10	1	Aug/27/07	8:12:45 PM
27	070827-2-027	7H24138-BLK1	1	Aug/27/07	8:18:20 PM
28	070827-2-028	7H24138-BS1	1	Aug/27/07	8:23:55 PM
29	070827-2-029	IQH2369-01	1	Aug/27/07	8:29:31 PM
30	070827-2-030	7H24138-MS1	1	Aug/27/07	8:35:12 PM
31	070827-2-031	7H24138-MSD1	1	Aug/27/07	8:41:03 PM
32	070827-2-032	IQH2260-01	1	Aug/27/07	8:46:46 PM
33	070827-2-033	070827CCV	1	Aug/27/07	8:52:31 PM
34	070827-2-034	CCB	1	Aug/27/07	8:58:08 PM
35	070827-2-035	IQH2263-01	1	Aug/27/07	9:03:29 PM
36	070827-2-036	7H27122-BLK1	1	Aug/27/07	9:09:20 PM
37	070827-2-037	7H27122-BS1	1	Aug/27/07	9:15:01 PM
38	070827-2-038	IQH1460-01	1	Aug/27/07	9:20:42 PM
39	070827-2-039	7H27122-MS1	1	Aug/27/07	9:26:27 PM
40	070827-2-040	7H27122-MSD1	1	Aug/27/07	9:32:12 PM
41	070827-2-041	IQH2164-01	1	Aug/27/07	9:37:59 PM
42	070827-2-042	IQH1456-01	1	Aug/27/07	9:43:45 PM
43	070827-2-043	070827CCV	1	Aug/27/07	9:49:24 PM
44	070827-2-044	CCB	1	Aug/27/07	9:54:59 PM
45	070827-2-045	BP CHK 1	1	Aug/27/07	10:00:33 PM
46	070827-2-046	BP CHK 2	1	Aug/27/07	10:06:10 PM
47	070827-2-047	7H27100-BLK1	1	Aug/27/07	10:11:45 PM
48	070827-2-048	7H27100-BS1	1	Aug/27/07	10:17:21 PM
49	070827-2-049	IQH2451-03	1	Aug/27/07	10:22:58 PM
50	070827-2-050	7H27100-MS1	1	Aug/27/07	10:28:45 PM
51	070827-2-051	7H27100-MSD1	1	Aug/27/07	10:34:33 PM
52	070827-2-052	IQH1714-05	1	Aug/27/07	10:40:20 PM
53	070827-2-053	IQH1714-06	1	Aug/27/07	10:46:28 PM
54	070827-2-054	IQH2192-21	1	Aug/27/07	10:52:09 PM
55	070827-2-055	070827CCV	1	Aug/27/07	10:57:50 PM
56	070827-2-056	CCB	1	Aug/27/07	11:03:26 PM
57	070827-2-057	IQH2297-14	1	Aug/27/07	11:09:01 PM
58	070827-2-058	IQH0716-22	1	Aug/27/07	11:14:42 PM
59	070827-2-059	IQH2165-01	1	Aug/27/07	11:20:22 PM
60	070827-2-060	IQH2167-01	1	Aug/27/07	11:26:08 PM
61	070827-2-061	IQH2441-11	1	Aug/27/07	11:31:54 PM
62	070827-2-062	7H25024-BLK1	1	Aug/27/07	11:37:35 PM
63	070827-2-063	7H25024-BS1	1	Aug/27/07	11:43:11 PM

64	070827-2-064	IQH2166-01	1	Aug/27/07	11:48:47 PM
65	070827-2-065	7H25024-MS1	1	Aug/27/07	11:54:25 PM
66	070827-2-066	7H25024-MSD1	1	Aug/28/07	12:00:03 AM
67	070827-2-067	070827CCV	1	Aug/28/07	12:05:41 AM
68	070827-2-068	CCB	1	Aug/28/07	12:11:17 AM
69	070827-2-069	IQH1920-01	1	Aug/28/07	12:16:52 AM
70	070827-2-070	IQH1920-02	1	Aug/28/07	12:22:43 AM
71	070827-2-071	IQH2192-21	1	Aug/28/07	12:28:35 AM
72	070827-2-072	IQH2192-22	1	Aug/28/07	12:34:15 AM
73	070827-2-073	IQH2313-11	1	Aug/28/07	12:39:52 AM
74	070827-2-074	IQH2331-11	1	Aug/28/07	12:45:33 AM
75	070827-2-075	IQH2331-12	1	Aug/28/07	12:51:13 AM
76	070827-2-076	IQH2163-01	1	Aug/28/07	12:56:54 AM
77	070827-2-077	IQH2165-01	1	Aug/28/07	1:02:42 AM
78	070827-2-078	IQH2167-01	1	Aug/28/07	1:08:31 AM
79	070827-2-079	070827CCV	1	Aug/28/07	1:14:11 AM
80	070827-2-080	CCB	1	Aug/28/07	1:19:47 AM
81	070827-2-081	IQH2169-01	1	Aug/28/07	1:25:22 AM
82	070827-2-082	7H27113-BLK1	1	Aug/28/07	1:31:04 AM
83	070827-2-083	7H27113-BS1	1	Aug/28/07	1:36:42 AM
84	070827-2-084	IQH2460-01	1	Aug/28/07	1:42:22 AM
85	070827-2-085	7H27113-MS1	1	Aug/28/07	1:48:03 AM
86	070827-2-086	7H27113-MSD1	1	Aug/28/07	1:53:46 AM
87	070827-2-087	IQH2472-01	1	Aug/28/07	1:59:31 AM
88	070827-2-088	IQH2472-02	1	Aug/28/07	2:05:13 AM
89	070827-2-089	IQH2472-03	1	Aug/28/07	2:10:55 AM
90	070827-2-090	IQH1933-01	1	Aug/28/07	2:16:34 AM
91	070827-2-091	070827CCV	1	Aug/28/07	2:22:10 AM
92	070827-2-092	CCB	1	Aug/28/07	2:27:45 AM
93	070827-2-093	IQH1933-02	1	Aug/28/07	2:33:19 AM
94	070827-2-094	IQH1933-03	1	Aug/28/07	2:38:55 AM
95	070827-2-095	IQH1933-04	1	Aug/28/07	2:44:47 AM
96	070827-2-096	IQH1933-05	1	Aug/28/07	2:50:26 AM
97	070827-2-097	IQH1933-06	1	Aug/28/07	2:56:07 AM
98	070827-2-098	IQH1933-07	1	Aug/28/07	3:01:48 AM
99	070827-2-099	7H27111-BLK1	1	Aug/28/07	3:07:24 AM
100	070827-2-100	7H27111-BS1	1	Aug/28/07	3:13:01 AM
101	070827-2-101	IQH1759-18	1	Aug/28/07	3:18:38 AM
102	070827-2-102	7H27111-MS1	1	Aug/28/07	3:24:16 AM
103	070827-2-103	070827CCV	1	Aug/28/07	3:29:53 AM
104	070827-2-104	CCB	1	Aug/28/07	3:35:29 AM
105	070827-2-105	7H27111-MSD1	1	Aug/28/07	3:41:04 AM
106	070827-2-106	IQH2258-01	1	Aug/28/07	3:46:43 AM
107	070827-2-107	IQH2263-01	1	Aug/28/07	3:52:25 AM
108	070827-2-108	IQH1759-42	1	Aug/28/07	3:58:13 AM
109	070827-2-109	IQH1759-57	1	Aug/28/07	4:03:50 AM
110	070827-2-110	IQH1781-01	1	Aug/28/07	4:09:27 AM
111	070827-2-111	IQH1781-02	1	Aug/28/07	4:15:18 AM
112	070827-2-112	IQH1781-03	1	Aug/28/07	4:21:04 AM
113	070827-2-113	IQH1781-04	1	Aug/28/07	4:26:54 AM
114	070827-2-114	IQH1781-05	1	Aug/28/07	4:32:44 AM
115	070827-2-115	070827CCV	1	Aug/28/07	4:38:33 AM
116	070827-2-116	CCB	1	Aug/28/07	4:44:09 AM
117	070827-2-117	IQH1781-06	1	Aug/28/07	4:50:14 AM
118	070827-2-118	IQH2260-01	1	Aug/28/07	4:55:59 AM
119	070827-2-119	IQH1798-01	1	Aug/28/07	5:01:42 AM
120	070827-2-120	IQH1954-05	1	Aug/28/07	5:07:22 AM
121	070827-2-121	IQH1954-21	1	Aug/28/07	5:13:00 AM
122	070827-2-122	IQH1954-37	1	Aug/28/07	5:18:37 AM
123	070827-2-123	IQH1954-55	1	Aug/28/07	5:24:15 AM
124	070827-2-124	IQH1993-07	1	Aug/28/07	5:29:56 AM
125	070827-2-125	IQH1993-08	1	Aug/28/07	5:35:39 AM
126	070827-2-126	IQH1994-01	1	Aug/28/07	5:41:21 AM
127	070827-2-127	070827CCV	1	Aug/28/07	5:46:57 AM
128	070827-2-128	CCB	1	Aug/28/07	5:52:33 AM
129	070827-2-129	BP CHK 1	1	Aug/28/07	5:58:06 AM
130	070827-2-130	BP CHK 2	1	Aug/28/07	6:03:40 AM
131	070827-2-131	7H24112-BLK1	1	Aug/28/07	6:09:15 AM
132	070827-2-132	7H24112-BS1	1	Aug/28/07	6:14:50 AM
133	070827-2-133	IQH2262-01	1	Aug/28/07	6:20:27 AM

134	070827-2-134	7H24112-MS1	1	Aug/28/07	6:26:03 AM
135	070827-2-135	7H24112-MSD1	1	Aug/28/07	6:31:41 AM
136	070827-2-136	IQH2285-01	1	Aug/28/07	6:37:19 AM
137	070827-2-137	7H27073-BLK1	1	Aug/28/07	6:42:55 AM
138	070827-2-138	7H27073-BS1	1	Aug/28/07	6:49:00 AM
139	070827-2-139	070827CCV	1	Aug/28/07	6:54:36 AM
140	070827-2-140	CCB	1	Aug/28/07	7:00:12 AM
141	070827-2-141	IQH2202-01	1	Aug/28/07	7:05:47 AM
142	070827-2-142	7H27073-MS1	1	Aug/28/07	7:11:23 AM
143	070827-2-143	7H27073-MSD1	1	Aug/28/07	7:17:00 AM
144	070827-2-144	IQH2287-01	1	Aug/28/07	7:22:37 AM
145	070827-2-145	IQH2287-02	1	Aug/28/07	7:28:12 AM
146	070827-2-146	7H23131-BLK1	1	Aug/28/07	7:33:55 AM
147	070827-2-147	7H23131-BS1	1	Aug/28/07	7:39:29 AM
148	070827-2-148	IQH2103-01	1	Aug/28/07	7:45:05 AM
149	070827-2-149	7H23131-MS1	1	Aug/28/07	7:50:43 AM
150	070827-2-150	7H23131-MSD1	1	Aug/28/07	7:56:25 AM
151	070827-2-151	070827CCV	1	Aug/28/07	8:02:06 AM
152	070827-2-152	CCB	1	Aug/28/07	8:07:41 AM
153	070827-2-153	IQH2072-01	1	Aug/28/07	8:13:15 AM
154	070827-2-154	IQH2100-01	1	Aug/28/07	8:18:51 AM
155	070827-2-155	IQH1951-01	1	Aug/28/07	8:24:27 AM
156	070827-2-156	7H24114-BLK1	1	Aug/28/07	8:30:05 AM
157	070827-2-157	7H24114-BS1	1	Aug/28/07	8:35:40 AM
158	070827-2-158	IQH2020-65	1	Aug/28/07	8:41:16 AM
159	070827-2-159	7H24114-MS1	1	Aug/28/07	8:47:05 AM
160	070827-2-160	7H24114-MSD1	1	Aug/28/07	8:52:11 AM
161	070827-2-161	7H27100-MS1	1	Aug/28/07	8:58:00 AM
162	070827-2-162	7H27100-MSD1	1	Aug/28/07	9:03:41 AM
163	070827-2-163	070827CCV	1	Aug/28/07	9:09:21 AM
164	070827-2-164	CCB	1	Aug/28/07	9:14:55 AM
165	070827-2-165	IQH2263-01	1	Aug/28/07	9:20:57 AM
166	070827-2-166	IQH0716-22	1	Aug/28/07	9:26:42 AM
167	070827-2-167	IQH2165-01	1	Aug/28/07	9:32:27 AM
168	070827-2-168	IQH2167-01	1	Aug/28/07	9:38:11 AM
169	070827-2-169	IQH1920-01	1	Aug/28/07	9:43:49 AM
170	070827-2-170	IQH1920-02	1	Aug/28/07	9:49:30 AM
171	070827-2-171	IQH2163-01	1	Aug/28/07	9:55:19 AM
172	070827-2-172	IQH2165-01	1	Aug/28/07	10:01:00 AM
173	070827-2-173	IQH2167-01	1	Aug/28/07	10:06:45 AM
174	070827-2-174	IQH2169-01	1	Aug/28/07	10:12:22 AM
175	070827-2-175	070827CCV	1	Aug/28/07	10:17:59 AM
176	070827-2-176	CCB	1	Aug/28/07	10:23:34 AM
177	070827-2-177	7H24114-MS1	1	Aug/28/07	10:27:35 AM
178	070827-2-178	7H24114-MSD1	1	Aug/28/07	10:33:14 AM
179	070827-2-179	IQH1920-01	1	Aug/28/07	10:39:14 AM
180	070827-2-180	IQH1920-02	1	Aug/28/07	10:45:07 AM
181	070827-2-181	070827CCV	1	Aug/28/07	10:50:43 AM
182	070827-2-182	CCB	1	Aug/28/07	10:56:18 AM
183	070827-2-183	BP CHK 1	1	Aug/28/07	11:02:22 AM
184	070827-2-184	BP CHK 2	1	Aug/28/07	11:07:57 AM
185	070827-2-185	7H27111-BLK1	1	Aug/28/07	11:26:16 AM
186	070827-2-186	7H27111-BS1	1	Aug/28/07	11:31:54 AM
187	070827-2-187	IQH1759-18	1	Aug/28/07	11:37:33 AM
188	070827-2-188	7H27111-MS1	1	Aug/28/07	11:43:10 AM
189	070827-2-189	7H27111-MSD1	1	Aug/28/07	11:48:49 AM
190	070827-2-190	IQH2263-01	1	Aug/28/07	11:54:27 AM
191	070827-2-191	IQH2441-11	1	Aug/28/07	12:00:11 PM
192	070827-2-192	7H25024-BLK1	1	Aug/28/07	12:06:02 PM
193	070827-2-193	070827CCV	1	Aug/28/07	12:09:51 PM
194	070827-2-194	CCB	1	Aug/28/07	12:15:26 PM
195	070827-2-195	BP CHK 1	1	Aug/28/07	12:20:59 PM
196	070827-2-196	BP CHK 2	1	Aug/28/07	12:25:08 PM
197	070827-2-197	7H25024-BS1	1	Aug/28/07	12:30:47 PM
198	070827-2-198	IQH2166-01	1	Aug/28/07	12:36:23 PM
199	070827-2-199	7H25024-MS1	1	Aug/28/07	12:42:01 PM
200	070827-2-200	7H25024-MSD1	1	Aug/28/07	12:47:46 PM
201	070827-2-201	IQH2192-21	1	Aug/28/07	12:53:24 PM
202	070827-2-202	IQH2192-22	1	Aug/28/07	12:59:04 PM
203	070827-2-203	IQH2313-11	1	Aug/28/07	1:04:41 PM

204	070827-2-204	IQH2331-11	1	Aug/28/07	1:10:27 PM
205	070827-2-205	070827CCV	1	Aug/28/07	1:16:06 PM
206	070827-2-206	CCB	1	Aug/28/07	1:21:41 PM
207	070827-2-207	IQH2331-12	1	Aug/28/07	1:27:15 PM
208	070827-2-208	IQH1759-42	1	Aug/28/07	1:32:58 PM
209	070827-2-209	IQH1759-57	1	Aug/28/07	1:38:35 PM
210	070827-2-210	IQH2260-01	1	Aug/28/07	1:44:14 PM
211	070827-2-211	IQH1781-01	1	Aug/28/07	1:50:02 PM
212	070827-2-212	IQH1781-02	1	Aug/28/07	1:55:50 PM
213	070827-2-213	IQH1781-03	1	Aug/28/07	2:01:32 PM
214	070827-2-214	IQH1781-04	1	Aug/28/07	2:07:18 PM
215	070827-2-215	IQH1781-05	1	Aug/28/07	2:13:04 PM
216	070827-2-216	IQH1781-06	1	Aug/28/07	2:18:47 PM
217	070827-2-217	070827CCV	1	Aug/28/07	2:24:31 PM
218	070827-2-218	CCB	1	Aug/28/07	2:30:09 PM
219	070827-2-219	BP CHK 1	1	Aug/28/07	2:40:11 PM
220	070827-2-220	BP CHK 2	1	Aug/28/07	2:45:47 PM
221	070827-2-221	IQH2020-52	1	Aug/28/07	2:50:25 PM
222	070827-2-222	IQH2020-53	1	Aug/28/07	2:56:06 PM
223	070827-2-223	IQH2020-54	1	Aug/28/07	3:01:50 PM
224	070827-2-224	IQH2020-55	1	Aug/28/07	3:07:29 PM
225	070827-2-225	IQH2020-56	1	Aug/28/07	3:13:09 PM
226	070827-2-226	IQH2020-57	1	Aug/28/07	3:18:53 PM
227	070827-2-227	IQH2020-58	1	Aug/28/07	3:24:33 PM
228	070827-2-228	IQH2020-59	1	Aug/28/07	3:30:14 PM
229	070827-2-229	070827CCV	1	Aug/28/07	3:35:54 PM
230	070827-2-230	CCB	1	Aug/28/07	3:41:29 PM
231	070827-2-231	IQH2020-62	1	Aug/28/07	3:47:26 PM
232	070827-2-232	IQH2020-63	1	Aug/28/07	3:53:20 PM
233	070827-2-233	IQH2020-64	1	Aug/28/07	3:59:08 PM
234	070827-2-234	IQH2020-66	1	Aug/28/07	4:04:49 PM
235	070827-2-235	IQH2020-67	1	Aug/28/07	4:10:34 PM
236	070827-2-236	IQH2020-68	1	Aug/28/07	4:16:18 PM
237	070827-2-237	IQH2020-69	1	Aug/28/07	4:21:57 PM
238	070827-2-238	IQH2020-70	1	Aug/28/07	4:27:56 PM
239	070827-2-239	IQH2020-71	1	Aug/28/07	4:33:40 PM
240	070827-2-240	IQH2020-72	1	Aug/28/07	4:39:24 PM
241	070827-2-241	070827CCV	1	Aug/28/07	4:45:03 PM
242	070827-2-242	CCB	1	Aug/28/07	4:50:40 PM
243	070827-2-243	IQH2020-73	1	Aug/28/07	4:56:15 PM
244	070827-2-244	RL1 TEST	1	Aug/28/07	5:01:58 PM
245	070827-2-245	070827CCV	1	Aug/28/07	5:07:33 PM
246	070827-2-246	CCB	1	Aug/28/07	5:13:08 PM

METALS DIGESTION LOG (Aqueous) 6010B 1 DAY RUSH

Prep Method: (Circle One) 200.2 3005A 3010A 3020A

Temp: 85°C
Analyst: KP
Dig. tube lot: A702151136

Client	Sample ID	Sample Size (mL)	Test	Matrix	HNO3 Add (mL)	HCL Add (mL)	Final Vol. (mL)	pH	Comments
	Method Blank	50	CAM	W	1.0	2.5	50	<2	
BP	LCS 7080346								
~~GeO~~ BAC	IQH 1759-18A								
	-18AMS								
	-18ASD								
	-42A								
	-57A								
GeO	1781-01B		CAM						
	-02B								
	-03B								
	-04B								
	-05C								
	-06C								
ASH	1798-01B								
ENV	1954-05A		CAM						
	-21A								
	-37A								
	-55A		Sb						
SECOR	1993-07H		CAM						
1410182	1994-01A								
1412681	2258-01G		Pb						
GeO BP	2260-01C		CAM						
BP	2263-01B								
	1993-08H								

Volume Spike Added LCS: 500 µl (A+B)
Volume Spike Added MS/SD: " "

HCL ID #: 7070354
HNO3 ID#: 7070445

A: 7080344
B: 7080345

Batch: ~~7H27095~~ 7H27111 KP

Date: 08-27-07

MDL STUDY

METALS BY ICP - EPA 6010B / 200.7

Analytical Method: EPA 6010B / 200.7
Prep Method: ~~EPA 3005A~~ / 200.2
Matrix: Water (50ml-->50ml)
Units: mg/L

Instruments: ICP 5
Standard Conc: Na,K: 10x - Si: 5x - Ag: 0.5x
Ca,Mg: 1x

Reviewed: T. Vu (Nov/06/06)

#	Analyte	Spike(mg/l)		MDL Runs - (mg/L)								Calc Data (mg/L)			final	*current* LIMS (mg/L)			Validation Criteria				Comm't
		recom.	Actual	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Avrg	StdDev	MDL	MDL	MDL	RL_1	RL_2	MDL<RL	Ch'g	Ratio (1-10)	%Rec	Grubbs Test
1	Aluminum	0.05	0.05	0.0668	0.0645	0.0566	0.0626	0.0645	0.0647	0.0674	0.0621	0.064	0.003	0.010	0.010	0.040	0.05	0.05	OK	-75%	5	127%	2.09
2	Antimony	0.01	0.01	0.0094	0.0082	0.0072	0.0089	0.0098	0.0114	0.0095	0.0095	0.009	0.001	0.004	0.004	0.007	0.01	0.01	OK	-47%	3	93%	
3	Arsenic	0.005	0.005	0.0073	0.0059	0.0076	0.0049	0.0060	0.0044	0.0050	0.0035	0.006	0.001	0.004	0.004	0.0044	0.005	0.005	OK	no ch'g	1	112%	
4	Barium	0.01	0.005	0.0059	0.0055	0.0057	0.0057	0.0055	0.0051	0.0051	0.0052	0.005	0.000	0.001	0.001	0.006	0.01	0.01	OK	-85%	6	109%	
5	Beryllium	0.004	0.005	0.0051	0.0048	0.0049	0.0048	0.0054	0.0050	0.0049	0.0049	0.005	0.000	0.001	0.0008	0.0009	0.004	0.004	OK	-33%	8	100%	2.12
6	Boron	0.05	0.02	0.0121	0.0109	0.0106	0.0124	0.0204	0.0200	0.0208	0.0246	0.016	0.006	0.017	0.017	0.008	0.05	0.05	OK	108%	1.2	82%	
7	Cadmium	0.005	0.005	0.0054	0.0052	0.0053	0.0052	0.0054	0.0051	0.0051	0.0050	0.005	0.000	0.000	0.000	0.002	0.005	0.005	OK	-80%	13	104%	
8	Calcium	0.1	0.1	0.1096	0.1305	0.1122	0.1142	0.1200	0.1204	0.1176	0.1295	0.119	0.008	0.023	0.023	0.050	0.1	0.1	OK	-54%	4	119%	
9	Chromium	0.005	0.005	0.0052	0.0053	0.0064	0.0050	0.0055	0.0055	0.0052	0.0052	0.005	0.000	0.001	0.001	0.002	0.005	0.005	OK	-35%	4	108%	2.33
10	Cobalt	0.01	0.005	0.0054	0.0053	0.0053	0.0051	0.0053	0.0050	0.0049	0.0049	0.005	0.000	0.001	0.001	0.002	0.01	0.01	OK	-70%	8	103%	
11	Copper	0.01	0.01	0.0106	0.0109	0.0107		0.0119	0.0130	0.0114	0.0109	0.011	0.001	0.003	0.003	0.003	0.01	0.01	OK	-10%	4	114%	
12	Iron	0.04	0.02	0.0232		0.0242	0.0241	0.0223	0.0235	0.0220	0.0215	0.023	0.001	0.003	0.003	0.015	0.04	0.02	OK	-78%	8	115%	
13	Lead	0.005	0.005	0.0052	0.0037	0.0048	0.0039	0.0055	0.0056	0.0044	0.0054	0.005	0.001	0.002	0.002	0.003	0.005	0.005	OK	-27%	2	97%	
14	Lithium	0.05	0.02	0.0171	0.0189	0.0210	0.0188	0.0256	0.0248	0.0252	0.0243	0.022	0.003	0.010	0.010	0.030	0.05	0.05	OK	-66%	2	110%	
15	Magnesium	0.02	0.01	0.0163	0.0146	0.0148	0.0148	0.0118	0.0129	0.0114	0.0117	0.014	0.002	0.006	0.006	0.008	0.02	0.02	OK	-31%	2	135%	
16	Manganese	0.02	0.01	0.0110	0.0108	0.0106	0.0108	0.0104	0.0113	0.0106	0.0105	0.011	0.000	0.001	0.001	0.007	0.02	0.02	OK	-87%	11	108%	
17	Molybdenum	0.02	0.01	0.0105	0.0101	0.0101	0.0098	0.0102	0.0110	0.0103	0.0102	0.010	0.000	0.001	0.001	0.002	0.02	0.02	OK	-45%	9	103%	
18	Nickel	0.01	0.01	0.0107	0.0110	0.0108	0.0106	0.0107	0.0108	0.0107	0.0104	0.011	0.000	0.001	0.001	0.002	0.01	0.01	OK	-75%	20	107%	
19	Phosphorus	0.5	0.05	0.0432	0.0425	0.0428	0.0429	0.0482	0.0480	0.0510	0.0505	0.046	0.004	0.011	0.011	0.02	0.5	0.5	OK	-45%	5	92%	
20	Potassium	0.5	0.5	0.6720	0.6570	0.6774	0.6535	0.5619	0.5429	0.5084	0.5388	0.601	0.070	0.209	0.21	0.15	0.5	0.5	OK	40%	2	120%	
21	Selenium	0.01	0.01	0.0093	0.0133	0.0143	0.0131	0.0165	0.0150	0.0152	0.0121	0.014	0.002	0.007	0.007	0.008	0.01	0.01	OK	-18%	2	136%	
22	Silicon	0.05	0.025	0.0191	0.0174	0.0174	0.0166	0.0258	0.0260	0.0252	0.0258	0.022	0.004	0.013	0.013	0.01	0.05	0.05	OK	31%	2	87%	
23	Silver	0.01	0.01	0.0113	0.0089	0.0103	0.0103	0.0091	0.0091	0.0099	0.0095	0.010	0.001	0.003	0.003	0.006	0.01	0.007	OK	-58%	4	98%	
24	Sodium	0.5	0.5	0.6352	0.6515	0.6399	0.6481	0.5785	0.5724	0.5587	0.5808	0.608	0.039	0.117	0.117	0.19	0.5	0.5	OK	-39%	4	122%	
25	Strontium	0.02	0.005	0.0054	0.0053	0.0052	0.0053	0.0049	0.0050	0.0047	0.0049	0.005	0.000	0.001	0.001	0.005	0.02	0.02	OK	-86%	7	102%	
26	Thallium	0.01	0.01	0.0102	0.0106	0.0092	0.0093	0.0111	0.0074	0.0069	0.0101	0.009	0.002	0.005	0.005	0.007	0.01	0.01	OK	-36%	2	94%	
27	Tin	0.1	0.05	0.0396	0.0414	0.0394	0.0402	0.0398	0.0400	0.0398	0.0408	0.040	0.001	0.002	0.002	0.01	0.1	0.1	OK	-79%	24	80%	
28	Titanium	0.005	0.005	0.0046	0.0044	0.0047	0.0043	0.0052	0.0048	0.0045	0.0047	0.005	0.000	0.001	0.001	0.002	0.005	0.005	OK	-60%	6	93%	
29	Vanadium	0.01	0.005	0.0059	0.0065	0.0066	0.0057	0.0061	0.0059	0.0053	0.0051	0.006	0.001	0.002	0.002	0.003	0.01	0.01	OK	-50%	3	118%	
30	Zinc	0.02	0.02	0.0249	0.0231	0.0228	0.0228	0.0216	0.0225	0.0250		0.023	0.001	0.004	0.004	0.004	0.02	0.02	OK	no ch'g	5	116%	
31	Zirconium	0.2	0.005													0.012	0.2	0.2					

ICP
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument: **ICP5**
Data File/Seq.#: 070901-1

Labnumber: RL CHK1 2XRL
Filename: 070901-1-019
Analyzed: Sep/01/07 11:36:51 AM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	0.1	0.107	107	50-150	
3	Arsenic	0.01	0.01	100	50-150	
5	Beryllium	0.01	0.0105	105	50-150	
6	Boron	0.1	0.1254	125	50-150	
7	Cadmium	0.01	0.0106	106	50-150	
8	Calcium	0.2	0.2138	107	50-150	
9	Chromium	0.01	0.0123	123	50-150	
12	Iron	0.08	0.087	109	50-150	
13	Lead	0.01	0.0107	107	50-150	
15	Magnesium	0.04	0.0495	124	50-150	
16	Manganese	0.01	0.0107	107	50-150	
19	Phosphorus	1	0.0077	1	50-150	*
20	Potassium	1	1.0484	105	50-150	
24	Sodium	1	0.3493	35	50-150	*
28	Titanium	0.01	0.0104	104	50-150	

(*) = Out of range

only Ca reported from this sequence

ICP
INITIAL CALIBRATION VERIFICATION SUMMARY

Instrument: **ICP5**
Data File/Seq.#: 070901-1

Labnumber: 070901ICV
Filename: 070901-1-021
Analyzed: Sep/01/07 11:52:00 AM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	2	2.007	100	90-110	
2	Antimony	2	1.945	97	90-110	
3	Arsenic	2	1.919	96	90-110	
4	Barium	2	2.083	104	90-110	
5	Beryllium	2	1.966	98	90-110	
6	Boron	2	2.082	104	90-110	
7	Cadmium	2	1.884	94	90-110	
8	Calcium	2	2.201	110	90-110	
9	Chromium	2	1.955	98	90-110	
10	Cobalt	2	1.923	96	90-110	
11	Copper	2	1.96	98	90-110	
12	Iron	2	1.989	99	90-110	
13	Lead	2	1.925	96	90-110	
14	Lithium	2	1.898	95	90-110	
15	Magnesium	2	1.904	95	90-110	
16	Manganese	2	1.917	96	90-110	
17	Molybdenum	2	1.922	96	90-110	
18	Nickel	2	1.919	96	90-110	
19	Phosphorus	2	1.998	100	90-110	
20	Potassium	20	20.921	105	90-110	
21	Selenium	2	1.9	95	90-110	
22	Silicon	10	9.852	99	90-110	
23	Silver	1	1.008	101	90-110	
24	Sodium	20	19.983	100	90-110	
25	Strontium	2	1.951	98	90-110	
26	Thallium	2	1.993	100	90-110	
27	Tin	2	1.985	99	90-110	
28	Titanium	2	1.984	99	90-110	
29	Vanadium	2	1.991	100	90-110	
30	Zinc	2	1.9	95	90-110	

(*) = Out of range

ICP
INITIAL CALIBRATION BLANK SUMMARY

Instrument:	ICP5	Labnumber:	ICB	
Data File/Seq.#:	070901-1	Filename:	070901-1-022	
		Analyzed:	Sep/01/07	11:57:30 AM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.014	
2	Antimony	0.01	0.007	
3	Arsenic	0.005	-0.004	
4	Barium	0.01	0.001	
5	Beryllium	0.05	0.001	
6	Boron	0.05	0.007	
7	Cadmium	0.005	0.001	
8	Calcium	0.1	-0.003	
9	Chromium	0.005	0.002	
10	Cobalt	0.01	0.001	
11	Copper	0.01	0.001	
12	Iron	0.04	0.001	
13	Lead	0.005	0.001	
14	Lithium	0.05	0.016	
15	Magnesium	0.5	0.003	
16	Manganese	0.02	0.001	
17	Molybdenum	0.02	0.002	
18	Nickel	0.01	0	
19	Phosphorus	0.5	0.001	
20	Potassium	0.5	-0.03	
21	Selenium	0.01	0.008	
22	Silicon	0.05	0.029	
23	Silver	0.01	0.003	
24	Sodium	0.5	-0.982	*
25	Strontium	0.02	0.001	
26	Thallium	0.01	-0.003	
27	Tin	0.1	-0.002	
28	Titanium	0.005	0.001	
29	Vanadium	0.01	0.001	
30	Zinc	0.02	0	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: **ICP5**
Data File/Seq.#: 070901-1

Labnumber: 070901CCV
Filename: 070901-1-028
Analyzed: Sep/01/07 12:34:44 PM

	Analyte	Conc (mg/L) True	Conc (mg/L) Found	% Rec	%Limits	Q
1	Aluminum	1	0.975	98	90-110	
2	Antimony	1	0.998	100	90-110	
3	Arsenic	1	0.995	100	90-110	
4	Barium	1	1.013	101	90-110	
5	Beryllium	1	1.009	101	90-110	
6	Boron	1	1.016	102	90-110	
7	Cadmium	1	1.011	101	90-110	
8	Calcium	10	10.05	101	90-110	
9	Chromium	1	1	100	90-110	
10	Cobalt	1	1.007	101	90-110	
11	Copper	1	0.998	100	90-110	
12	Iron	1	1.013	101	90-110	
13	Lead	1	1.007	101	90-110	
14	Lithium	1	1.037	104	90-110	
15	Magnesium	1	1.015	101	90-110	
16	Manganese	1	1.002	100	90-110	
17	Molybdenum	1	0.997	100	90-110	
18	Nickel	1	1.002	100	90-110	
19	Phosphorus	1	1.016	102	90-110	
20	Potassium	10	10.124	101	90-110	
21	Selenium	1	1.01	101	90-110	
22	Silicon	5	4.987	100	90-110	
23	Silver	0.5	0.502	100	90-110	
24	Sodium	10	9.717	97	90-110	
25	Strontium	1	0.993	99	90-110	
26	Thallium	1	0.997	100	90-110	
27	Tin	1	1.011	101	90-110	
28	Titanium	1	1	100	90-110	
29	Vanadium	1	1.014	101	90-110	
30	Zinc	1	0.978	98	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	**ICP5**	Labnumber:	CCB	
Data File/Seq.#:	070901-1	Filename:	070901-1-029	
		Analyzed:	Sep/01/07	12:40:15 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.011	
2	Antimony	0.01	0.011	*
3	Arsenic	0.005	0.003	
4	Barium	0.01	0	
5	Beryllium	0.05	0.001	
6	Boron	0.05	0.007	
7	Cadmium	0.005	0.001	
8	Calcium	0.1	0.007	
9	Chromium	0.005	0.004	
10	Cobalt	0.01	0	
11	Copper	0.01	0.001	
12	Iron	0.04	0	
13	Lead	0.005	0.003	
14	Lithium	0.05	0.004	
15	Magnesium	0.5	0.007	
16	Manganese	0.02	0.001	
17	Molybdenum	0.02	0	
18	Nickel	0.01	-0.001	
19	Phosphorus	0.5	0.001	
20	Potassium	0.5	0.016	
21	Selenium	0.01	0.014	*
22	Silicon	0.05	0.086	*
23	Silver	0.01	0	
24	Sodium	0.5	-0.858	*
25	Strontium	0.02	0	
26	Thallium	0.01	0.01	
27	Tin	0.1	0	
28	Titanium	0.005	0.001	
29	Vanadium	0.01	-0.001	
30	Zinc	0.02	0	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: ICP5
Data File/Seq.#: 070901-1

Labnumber: 070901CCV
Filename: 070901-1-086
Analyzed: Sep/01/07 6:24:10 PM

	Analyte	Conc (mg/L) True	Conc (mg/L) Found	% Rec	%Limits	Q
1	Aluminum	1	0.952	95	90-110	
2	Antimony	1	0.664	66	90-110	*
3	Arsenic	1	0.69	69	90-110	*
4	Barium	1	0.966	97	90-110	
5	Beryllium	1	1.007	101	90-110	
6	Boron	1	0.998	100	90-110	
7	Cadmium	1	0.703	70	90-110	*
8	Calcium	10	9.989	100	90-110	
9	Chromium	1	0.7	70	90-110	*
10	Cobalt	1	0.861	86	90-110	*
11	Copper	1	0.98	98	90-110	
12	Iron	1	0.977	98	90-110	
13	Lead	1	0.752	75	90-110	*
14	Lithium	1	1.051	105	90-110	
15	Magnesium	1	0.992	99	90-110	
16	Manganese	1	0.993	99	90-110	
17	Molybdenum	1	0.673	67	90-110	*
18	Nickel	1	0.922	92	90-110	
19	Phosphorus	1	0.748	75	90-110	*
20	Potassium	10	11.149	111	90-110	*
21	Selenium	1	0.717	72	90-110	*
22	Silicon	5	4.901	98	90-110	
23	Silver	0.5	0.502	100	90-110	
24	Sodium	10	14.713	147	90-110	*
25	Strontium	1	1.033	103	90-110	
26	Thallium	1	0.719	72	90-110	*
27	Tin	1	0.698	70	90-110	*
28	Titanium	1	0.999	100	90-110	
29	Vanadium	1	1.01	101	90-110	
30	Zinc	1	0.734	73	90-110	*

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	ICP5	Labnumber:	CCB	
Data File/Seq.#:	070901-1	Filename:	070901-1-087	
		Analyzed:	Sep/01/07	6:29:46 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.047	
2	Antimony	0.01	-0.01	
3	Arsenic	0.005	0	
4	Barium	0.01	0.001	
5	Beryllium	0.05	0.001	
6	Boron	0.05	0.01	
7	Cadmium	0.005	0	
8	Calcium	0.1	0.004	
9	Chromium	0.005	0	
10	Cobalt	0.01	0.001	
11	Copper	0.01	0	
12	Iron	0.04	0.002	
13	Lead	0.005	0	
14	Lithium	0.05	-0.009	
15	Magnesium	0.5	0.009	
16	Manganese	0.02	0	
17	Molybdenum	0.02	-0.002	
18	Nickel	0.01	0.001	
19	Phosphorus	0.5	0.033	
20	Potassium	0.5	0.96	*
21	Selenium	0.01	0.023	*
22	Silicon	0.05	-0.012	
23	Silver	0.01	0.003	
24	Sodium	0.5	2.867	*
25	Strontium	0.02	0	
26	Thallium	0.01	0.003	
27	Tin	0.1	-0.009	
28	Titanium	0.005	0.001	
29	Vanadium	0.01	0	
30	Zinc	0.02	-0.002	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: **ICP5**
Data File/Seq.#: 070901-1

Labnumber: 070901CCV
Filename: 070901-1-098
Analyzed: Sep/01/07 7:31:40 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.925	93	90-110	
2	Antimony	1	0.628	63	90-110	*
3	Arsenic	1	0.631	63	90-110	*
4	Barium	1	0.96	96	90-110	
5	Beryllium	1	0.99	99	90-110	
6	Boron	1	0.972	97	90-110	
7	Cadmium	1	0.67	67	90-110	*
8	Calcium	10	9.743	97	90-110	
9	Chromium	1	0.668	67	90-110	*
10	Cobalt	1	0.837	84	90-110	*
11	Copper	1	0.976	98	90-110	
12	Iron	1	0.961	96	90-110	
13	Lead	1	0.72	72	90-110	*
14	Lithium	1	1.051	105	90-110	
15	Magnesium	1	0.95	95	90-110	
16	Manganese	1	0.979	98	90-110	
17	Molybdenum	1	0.648	65	90-110	*
18	Nickel	1	0.893	89	90-110	*
19	Phosphorus	1	0.693	69	90-110	*
20	Potassium	10	10.426	104	90-110	
21	Selenium	1	0.674	67	90-110	*
22	Silicon	5	4.809	96	90-110	
23	Silver	0.5	0.504	101	90-110	
24	Sodium	10	12.007	120	90-110	*
25	Strontium	1	1.046	105	90-110	
26	Thallium	1	0.642	64	90-110	*
27	Tin	1	0.667	67	90-110	*
28	Titanium	1	0.988	99	90-110	
29	Vanadium	1	1.006	101	90-110	
30	Zinc	1	0.697	70	90-110	*

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	ICP5	Labnumber:	CCB	
Data File/Seq.#:	070901-1	Filename:	070901-1-099	
		Analyzed:	Sep/01/07	7:37:15 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.056	*
2	Antimony	0.01	-0.012	*
3	Arsenic	0.005	-0.008	*
4	Barium	0.01	0.001	
5	Beryllium	0.05	0.001	
6	Boron	0.05	0.006	
7	Cadmium	0.005	0	
8	Calcium	0.1	0.004	
9	Chromium	0.005	-0.001	
10	Cobalt	0.01	0.001	
11	Copper	0.01	0.001	
12	Iron	0.04	0.002	
13	Lead	0.005	0.001	
14	Lithium	0.05	0.006	
15	Magnesium	0.5	0.003	
16	Manganese	0.02	0	
17	Molybdenum	0.02	-0.002	
18	Nickel	0.01	0.002	
19	Phosphorus	0.5	0.036	
20	Potassium	0.5	0.292	
21	Selenium	0.01	0.02	*
22	Silicon	0.05	-0.062	*
23	Silver	0.01	0.005	
24	Sodium	0.5	0.684	*
25	Strontium	0.02	0	
26	Thallium	0.01	0	
27	Tin	0.1	-0.007	
28	Titanium	0.005	0.001	
29	Vanadium	0.01	-0.001	
30	Zinc	0.02	-0.002	

(*) = Out of range

ICP
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument:	ICP5	Labnumber:	BP CHK1 2XRL	
Data File/Seq.#:	070901-1	Filename:	070901-1-112	
		Analyzed:	Sep/01/07	8:50:38 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	0.1	0.052	52	50-150	
3	Arsenic	0.01	0.0055	55	50-150	
5	Beryllium	0.01	0.0107	107	50-150	
6	Boron	0.1	0.1152	115	50-150	
7	Cadmium	0.01	0.0064	64	50-150	
8	Calcium	0.2	0.2054	103	50-150	
9	Chromium	0.01	0.0054	54	50-150	
12	Iron	0.08	0.0824	103	50-150	
13	Lead	0.01	0.0075	75	50-150	
15	Magnesium	0.04	0.0451	113	50-150	
16	Manganese	0.01	0.0101	101	50-150	
19	Phosphorus	1	0.044	4	50-150	*
20	Potassium	1	0.9253	93	50-150	
24	Sodium	1	-0.2808	-28	50-150	*
28	Titanium	0.01	0.0098	98	50-150	

(*) = Out of range

Method: 070819 ICPS

Sequence No.: 6
Sample ID: 070828ICSA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 147
Date Collected: 8/28/2007 10:51:56 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Mean Data: 070828ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	6725109.7	89.43	%	0.777				0.87%
Ag 328.068†	-5525.4	0.0000	mg/L	0.00157	0.0000	mg/L	0.00157	>999.9%
Al 308.215†	12496649.9	445.3	mg/L	5.42	445.3	mg/L	5.42	1.22%
As 188.979†	10.1	0.0118	mg/L	0.00276	0.0118	mg/L	0.00276	23.45%
B 249.772†	9660.0	0.0735	mg/L	0.00287	0.0735	mg/L	0.00287	3.90%
Ba 233.527†	217.5	0.0029	mg/L	0.00013	0.0029	mg/L	0.00013	4.41%
Be 313.107†	-701.0	-0.0006	mg/L	0.00007	-0.0006	mg/L	0.00007	10.78%
Ca 315.887†	53613934.7	466.9	mg/L	5.07	466.9	mg/L	5.07	1.09%
Cd 214.440†	75.2	0.0008	mg/L	0.00011	0.0008	mg/L	0.00011	13.47%
Co 228.616†	-41.9	-0.0014	mg/L	0.00040	-0.0014	mg/L	0.00040	28.63%
Cr 205.560†	39.0	0.0004	mg/L	0.00075	0.0004	mg/L	0.00075	183.20%
Cu 324.752†	-1965.7	0.0005	mg/L	0.00029	0.0005	mg/L	0.00029	56.22%
Fe 238.204†	14430290.1	179.3	mg/L	1.80	179.3	mg/L	1.80	1.00%
K 766.490†	52.6	-0.1803	mg/L	0.01178	-0.1803	mg/L	0.01178	6.54%
Li 610.362†	-192159.4	0.0947	mg/L	0.00601	0.0947	mg/L	0.00601	6.35%
Mg 279.077†	3715835.3	464.9	mg/L	1.14	464.9	mg/L	1.14	0.24%
Mn 257.610†	-1922.0	-0.0141	mg/L	0.00010	-0.0141	mg/L	0.00010	0.68%
Mo 202.031†	0.5	-0.0026	mg/L	0.00044	-0.0026	mg/L	0.00044	17.21%
Na 589.592†	3.6	-0.2128	mg/L	0.01995	-0.2128	mg/L	0.01995	9.38%
Ni 231.604†	-561.5	0.0048	mg/L	0.00077	0.0048	mg/L	0.00077	16.21%
P 214.914†	55.2	-0.0350	mg/L	0.00777	-0.0350	mg/L	0.00777	22.18%
Pb 220.353†	-23.1	-0.0007	mg/L	0.00114	-0.0007	mg/L	0.00114	163.87%
Sb 206.836†	27.5	0.0064	mg/L	0.00462	0.0064	mg/L	0.00462	71.66%
Se 196.026†	-29.5	-0.0059	mg/L	0.00784	-0.0059	mg/L	0.00784	131.95%
Si 251.611†	503.5	-0.0121	mg/L	0.00244	-0.0121	mg/L	0.00244	20.07%
Sn 189.927†	-128.4	0.0073	mg/L	0.00341	0.0073	mg/L	0.00341	46.53%
Sr 421.552†	1462.7	-0.0060	mg/L	0.00015	-0.0060	mg/L	0.00015	2.52%
Ti 334.940†	-4129.0	-0.0002	mg/L	0.00005	-0.0002	mg/L	0.00005	25.67%
Tl 190.801†	-33.9	-0.0045	mg/L	0.01136	-0.0045	mg/L	0.01136	251.17%
V 292.402†	720.4	-0.0005	mg/L	0.00036	-0.0005	mg/L	0.00036	68.58%
Zn 213.857†	862.9	-0.0219	mg/L	0.00002	-0.0219	mg/L	0.00002	0.09%

Analysis Begun

Start Time: 8/28/2007 11:00:11 AM
Plasma On Time: 8/28/2007 7:34:09 AM
Logged In Analyst: inorg
Technique: ICP Continuous
Spectrometer Model: Optima 5300 DV, S/N 077N5112802Autosampler Model: AS-93plus

Sample Information File: C:\pe\Administrator\Sample Information\070828-2.sif
Batch ID:
Results Data Set: 070828-2
Results Library: C:\pe\Administrator\Results\Results.mdb

Sequence No.: 1
Autosampler Location: 148
Sample ID: 070828ICSAB
Date Collected: 8/28/2007 11:00:11 AM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Mean Data: 070828ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	6702248.5	89.12	%	0.379				0.43%
Ag 328.068†	20488.4	0.2555	mg/L	0.00030	0.2555	mg/L	0.00030	0.12%
Al 308.215†	12479620.3	444.7	mg/L	4.30	444.7	mg/L	4.30	0.97%
As 188.979†	335.9	0.5045	mg/L	0.00506	0.5045	mg/L	0.00506	1.00%
B 249.772†	19972.7	0.5826	mg/L	0.00437	0.5826	mg/L	0.00437	0.75%
Ba 233.527†	36359.4	0.4891	mg/L	0.00229	0.4891	mg/L	0.00229	0.47%
Be 313.107†	534686.9	0.4901	mg/L	0.00124	0.4901	mg/L	0.00124	0.25%
Ca 315.887†	53519122.4	466.0	mg/L	4.85	466.0	mg/L	4.85	1.04%
Cd 214.440†	42605.3	0.4650	mg/L	0.00218	0.4650	mg/L	0.00218	0.47%
Co 228.616†	13202.9	0.4490	mg/L	0.00289	0.4490	mg/L	0.00289	0.64%
Cr 205.560†	3807.4	0.4777	mg/L	0.00228	0.4777	mg/L	0.00228	0.48%
Cu 324.752†	51911.8	0.5029	mg/L	0.00194	0.5029	mg/L	0.00194	0.39%
Fe 238.204†	14479595.8	180.0	mg/L	2.07	180.0	mg/L	2.07	1.15%
K 766.490†	14998.4	11.26	mg/L	0.079	11.26	mg/L	0.079	0.70%
Li 610.362†	-87235.9	0.5126	mg/L	0.00732	0.5126	mg/L	0.00732	1.43%
Mg 279.077†	3653913.8	457.2	mg/L	1.38	457.2	mg/L	1.38	0.30%
Mn 257.610†	263380.2	0.4529	mg/L	0.00116	0.4529	mg/L	0.00116	0.26%
Mo 202.031†	1892.3	0.4838	mg/L	0.00205	0.4838	mg/L	0.00205	0.42%
Na 589.592†	26441.9	10.75	mg/L	0.057	10.75	mg/L	0.057	0.53%
Ni 231.604†	7001.3	0.4563	mg/L	0.00282	0.4563	mg/L	0.00282	0.62%
P 214.914†	544.2	0.4625	mg/L	0.00171	0.4625	mg/L	0.00171	0.37%
Pb 220.353†	1893.7	0.4620	mg/L	0.00442	0.4620	mg/L	0.00442	0.96%
Sb 206.836†	612.3	0.4924	mg/L	0.00156	0.4924	mg/L	0.00156	0.32%
Se 196.026†	215.0	0.4583	mg/L	0.00681	0.4583	mg/L	0.00681	1.49%
Si 251.611†	53864.8	2.434	mg/L	0.0008	2.434	mg/L	0.0008	0.03%
Sn 189.927†	506.4	0.4807	mg/L	0.00390	0.4807	mg/L	0.00390	0.81%
Sr 421.552†	87665.4	0.4956	mg/L	0.00120	0.4956	mg/L	0.00120	0.24%
Ti 334.940†	353582.1	0.4922	mg/L	0.00162	0.4922	mg/L	0.00162	0.33%
Tl 190.801†	199.5	0.4567	mg/L	0.01702	0.4567	mg/L	0.01702	3.73%
V 292.402†	43452.7	0.4976	mg/L	0.00186	0.4976	mg/L	0.00186	0.37%
Zn 213.857†	18569.5	0.4383	mg/L	0.00153	0.4383	mg/L	0.00153	0.35%

RUN LOG

Intrument: *ICP5*

Calib.file #: 070901-1 Calib. date: 9/1/2007

#	File_Name	Lab_Number	Dilution	Analyzed	Time
1	070901-1-001	Calib Blank 1	1	Sep/01/07	9:18:32 AM
2	070901-1-002	Calib Std 1	1	Sep/01/07	9:24:06 AM
3	070901-1-003	Calib Blank 1	1	Sep/01/07	9:29:33 AM
4	070901-1-004	Calib Std 1	1	Sep/01/07	9:35:02 AM
5	070901-1-005	Calib Std 2	1	Sep/01/07	9:40:31 AM
6	070901-1-006	Calib Blank 1	1	Sep/01/07	9:49:11 AM
7	070901-1-007	Calib Std 1	1	Sep/01/07	9:54:45 AM
8	070901-1-008	Calib Std 2	1	Sep/01/07	10:00:14 AM
9	070901-1-009	Calib Blank 1	1	Sep/01/07	10:10:18 AM
10	070901-1-010	Calib Std 1	1	Sep/01/07	10:15:48 AM
11	070901-1-011	Calib Blank 1	1	Sep/01/07	10:51:26 AM
12	070901-1-012	Calib Std 1	1	Sep/01/07	10:57:00 AM
13	070901-1-013	Calib Blank 1	1	Sep/01/07	11:02:32 AM
14	070901-1-014	Calib Std 1	1	Sep/01/07	11:08:06 AM
15	070901-1-015	Calib Std 2	1	Sep/01/07	11:13:35 AM
16	070901-1-016	Calib Std3	1	Sep/01/07	11:19:06 AM
17	070901-1-017	070901ICV	1	Sep/01/07	11:24:43 AM
18	070901-1-018	ICB	1	Sep/01/07	11:30:15 AM
19	070901-1-019	RL CHK1 2XRL	1	Sep/01/07	11:35:44 AM
20	070901-1-020	RL CHK2 20PPB	1	Sep/01/07	11:41:18 AM
21	070901-1-021	070901ICV	1	Sep/01/07	11:50:55 AM
22	070901-1-022	ICB	1	Sep/01/07	11:56:27 AM
23	070901-1-023	7H31099-BLK1	1	Sep/01/07	12:05:42 PM
24	070901-1-024	7H31099-BS1	1	Sep/01/07	12:11:18 PM
25	070901-1-025	IQH2072-01	1	Sep/01/07	12:16:55 PM
26	070901-1-026	7H31099-MS1	1	Sep/01/07	12:22:29 PM
27	070901-1-027	7H31099-MSD1	1	Sep/01/07	12:28:02 PM
28	070901-1-028	070901CV	1	Sep/01/07	12:33:35 PM
29	070901-1-029	CCB	1	Sep/01/07	12:39:12 PM
30	070901-1-030	7H31134-BLK1	1	Sep/01/07	12:59:27 PM
31	070901-1-031	7H31134-BS1	1	Sep/01/07	1:05:04 PM
32	070901-1-032	IQH2217-01	1	Sep/01/07	1:10:43 PM
33	070901-1-033	7H31134-MS1	1	Sep/01/07	1:16:25 PM
34	070901-1-034	7H31134-MSD1	1	Sep/01/07	1:22:07 PM
35	070901-1-035	IQH2274-01	1	Sep/01/07	1:27:51 PM
36	070901-1-036	IQH2274-02	1	Sep/01/07	1:33:38 PM
37	070901-1-037	IQH2274-03	1	Sep/01/07	1:39:23 PM
38	070901-1-038	IQH2908-01	1	Sep/01/07	1:45:17 PM
39	070901-1-039	070901CV	1	Sep/01/07	1:50:55 PM
40	070901-1-040	CCB	1	Sep/01/07	1:56:32 PM
41	070901-1-041	7I01038-BLK1	1	Sep/01/07	2:08:00 PM
42	070901-1-042	7I01038-BS1	1	Sep/01/07	2:13:42 PM
43	070901-1-043	IQH1625-01	1	Sep/01/07	2:19:20 PM
44	070901-1-044	7I01038-MS1	1	Sep/01/07	2:25:02 PM
45	070901-1-045	7I01038-MSD1	1	Sep/01/07	2:30:42 PM
46	070901-1-046	IQH1824-06	1	Sep/01/07	2:36:23 PM
47	070901-1-047	IQH2453-01	1	Sep/01/07	2:42:06 PM
48	070901-1-048	IQH1920-01	1	Sep/01/07	2:47:49 PM
49	070901-1-049	IQH1920-02	1	Sep/01/07	2:53:33 PM
50	070901-1-050	IQH1956-02	1	Sep/01/07	2:59:14 PM
51	070901-1-051	070901CCV	1	Sep/01/07	3:04:56 PM
52	070901-1-052	CCB	1	Sep/01/07	3:10:32 PM
53	070901-1-053	IQH2605-01	1	Sep/01/07	3:16:11 PM
54	070901-1-054	IQH2096-01	1	Sep/01/07	3:21:54 PM
55	070901-1-055	7H31142-BLK1	1	Sep/01/07	3:27:29 PM
56	070901-1-056	7H31142-BS1	1	Sep/01/07	3:33:07 PM
57	070901-1-057	IQH2941-16	1	Sep/01/07	3:38:47 PM
58	070901-1-058	7H31142-MS1	1	Sep/01/07	3:44:32 PM
59	070901-1-059	7H31142-MSD1	1	Sep/01/07	3:50:18 PM
60	070901-1-060	7H31145-BLK1	1	Sep/01/07	3:56:00 PM
61	070901-1-061	7H31145-BS1	1	Sep/01/07	4:01:37 PM
62	070901-1-062	IQH3036-05	1	Sep/01/07	4:07:13 PM
63	070901-1-063	070901CCV	1	Sep/01/07	4:12:51 PM

64	070901-1-064	CCB	1	Sep/01/07	4:18:28 PM
65	070901-1-065	7H31145-MS1	1	Sep/01/07	4:23:59 PM
66	070901-1-066	7H31145-MSD1	1	Sep/01/07	4:29:37 PM
67	070901-1-067	IQH2890-03	1	Sep/01/07	4:35:15 PM
68	070901-1-068	7H31124-BLK1	1	Sep/01/07	4:40:53 PM
69	070901-1-069	7H31124-BS1	1	Sep/01/07	4:46:29 PM
70	070901-1-070	IQH1550-01	1	Sep/01/07	4:52:05 PM
71	070901-1-071	7H31124-MS1	1	Sep/01/07	4:57:51 PM
72	070901-1-072	7H31124-MSD1	1	Sep/01/07	5:03:37 PM
73	070901-1-073	IQH2890-12	1	Sep/01/07	5:09:23 PM
74	070901-1-074	070901CCV	1	Sep/01/07	5:15:05 PM
75	070901-1-075	CCB	1	Sep/01/07	5:20:42 PM
76	070901-1-076	7H31112-BLK1	1	Sep/01/07	5:26:18 PM
77	070901-1-077	7H31112-BS1	1	Sep/01/07	5:31:54 PM
78	070901-1-078	IQH2941-13	1	Sep/01/07	5:37:34 PM
79	070901-1-079	7H31112-MS1	1	Sep/01/07	5:43:19 PM
80	070901-1-080	7H31112-MSD1	1	Sep/01/07	5:49:03 PM
81	070901-1-081	IQH2941-14	1	Sep/01/07	5:54:46 PM
82	070901-1-082	IQH2941-15	1	Sep/01/07	6:00:28 PM
83	070901-1-083	IQH2941-16	1	Sep/01/07	6:06:10 PM
84	070901-1-084	IQH2376-01	1	Sep/01/07	6:11:51 PM
85	070901-1-085	IQH2376-02	1	Sep/01/07	6:17:24 PM
86	070901-1-086	070901CCV	1	Sep/01/07	6:23:01 PM
87	070901-1-087	CCB	1	Sep/01/07	6:28:38 PM
88	070901-1-088	IQH2376-03	1	Sep/01/07	6:34:13 PM
89	070901-1-089	7H31109-BLK1	1	Sep/01/07	6:39:49 PM
90	070901-1-090	7H31109-BS1	1	Sep/01/07	6:45:25 PM
91	070901-1-091	IQH3300-01	1	Sep/01/07	6:51:06 PM
92	070901-1-092	7H31109-MS1	1	Sep/01/07	6:56:48 PM
93	070901-1-093	7H31109-MSD1	1	Sep/01/07	7:02:30 PM
94	070901-1-094	IQH3300-02	1	Sep/01/07	7:08:11 PM
95	070901-1-095	IQH1759-18	1	Sep/01/07	7:13:48 PM
96	070901-1-096	IQH1759-42	1	Sep/01/07	7:19:22 PM
97	070901-1-097	IQH1759-57	1	Sep/01/07	7:24:56 PM
98	070901-1-098	070901CCV	1	Sep/01/07	7:30:31 PM
99	070901-1-099	CCB	1	Sep/01/07	7:36:08 PM
100	070901-1-100	IQH2336-01	1	Sep/01/07	7:41:42 PM
101	070901-1-101	IQH2336-02	1	Sep/01/07	7:47:18 PM
102	070901-1-102	IQH2336-03	1	Sep/01/07	7:52:54 PM
103	070901-1-103	IQH1550-03	1	Sep/01/07	7:58:26 PM
104	070901-1-104	IQH1550-05	1	Sep/01/07	8:04:10 PM
105	070901-1-105	IQH1550-07	1	Sep/01/07	8:09:53 PM
106	070901-1-106	IQH1550-09	1	Sep/01/07	8:15:36 PM
107	070901-1-107	IQH1550-11	1	Sep/01/07	8:21:16 PM
108	070901-1-108	IQH1550-12	1	Sep/01/07	8:27:00 PM
109	070901-1-109	IQH1550-14	1	Sep/01/07	8:32:41 PM
110	070901-1-110	070901CCV	1	Sep/01/07	8:38:21 PM
111	070901-1-111	CCB	1	Sep/01/07	8:43:57 PM
112	070901-1-112	BP CHK1 2XRL	1	Sep/01/07	8:49:31 PM
113	070901-1-113	BP CHK2 20PPB	1	Sep/01/07	8:55:05 PM
114	070901-1-114	IQH2158-02	1	Sep/01/07	9:00:37 PM
115	070901-1-115	IQH2453-01	1	Sep/01/07	9:06:39 PM
116	070901-1-116	IQH2602-01	1	Sep/01/07	9:12:22 PM
117	070901-1-117	IQH2602-02	1	Sep/01/07	9:18:00 PM
118	070901-1-118	IQH2637-04	1	Sep/01/07	9:23:37 PM
119	070901-1-119	IQH2697-05	1	Sep/01/07	9:29:19 PM
120	070901-1-120	IQH2789-01	1	Sep/01/07	9:34:59 PM
121	070901-1-121	070901CCV	1	Sep/01/07	9:40:30 PM
122	070901-1-122	CCB	1	Sep/01/07	9:46:07 PM
123	070901-1-123	IQH2516-02	1	Sep/01/07	9:51:43 PM
124	070901-1-124	IQH2516-03	1	Sep/01/07	9:57:27 PM
125	070901-1-125	IQH2516-04	1	Sep/01/07	10:03:07 PM
126	070901-1-126	IQH2516-05	1	Sep/01/07	10:08:47 PM
127	070901-1-127	IQH2516-06	1	Sep/01/07	10:14:25 PM
128	070901-1-128	IQH2516-07	1	Sep/01/07	10:19:58 PM
129	070901-1-129	IQH2274-01	1	Sep/01/07	10:25:40 PM
130	070901-1-130	IQH2274-02	1	Sep/01/07	10:31:26 PM
131	070901-1-131	IQH2274-03	1	Sep/01/07	10:37:11 PM
132	070901-1-132	IQH3036-06	1	Sep/01/07	10:43:07 PM
133	070901-1-133	070901CCV	1	Sep/01/07	10:48:49 PM

134	070901-1-134	CCB	1	Sep/01/07	10:54:21 PM
135	070901-1-135	IQH3036-07	1	Sep/01/07	10:59:56 PM
136	070901-1-136	IQH3036-08	1	Sep/01/07	11:05:39 PM
137	070901-1-137	IQH3036-09	1	Sep/01/07	11:11:18 PM
138	070901-1-138	IQH3036-10	1	Sep/01/07	11:17:07 PM
139	070901-1-139	IQH2964-05	1	Sep/01/07	11:22:45 PM
140	070901-1-140	IQH2964-06	1	Sep/01/07	11:28:21 PM
141	070901-1-141	IQH2964-07	1	Sep/01/07	11:34:04 PM
142	070901-1-142	IQH2964-08	1	Sep/01/07	11:39:38 PM
143	070901-1-143	IQH2941-01	1	Sep/01/07	11:45:22 PM
144	070901-1-144	IQH2941-02	1	Sep/01/07	11:50:55 PM
145	070901-1-145	070901CCV	1	Sep/01/07	11:56:32 PM
146	070901-1-146	CCB	1	Sep/02/07	12:02:08 AM
147	070901-1-147	IQH2941-03	1	Sep/02/07	12:07:43 AM
148	070901-1-148	IQH2941-04	1	Sep/02/07	12:13:22 AM
149	070901-1-149	IQH2941-05	1	Sep/02/07	12:19:00 AM
150	070901-1-150	IQH2941-06	1	Sep/02/07	12:24:36 AM
151	070901-1-151	IQH2941-07	1	Sep/02/07	12:30:13 AM
152	070901-1-152	IQH2941-08	1	Sep/02/07	12:36:01 AM
153	070901-1-153	IQH2941-09	1	Sep/02/07	12:41:38 AM
154	070901-1-154	IQH2941-10	1	Sep/02/07	12:47:16 AM
155	070901-1-155	IQH2941-11	1	Sep/02/07	12:52:53 AM
156	070901-1-156	IQH2941-12	1	Sep/02/07	12:58:30 AM
157	070901-1-157	070901CCV	1	Sep/02/07	1:04:08 AM
158	070901-1-158	CCB	1	Sep/02/07	1:09:40 AM
159	070901-1-159	BP CHK1 2XRL	1	Sep/02/07	1:15:14 AM
160	070901-1-160	BP CHK2 20PPB	1	Sep/02/07	1:20:48 AM

METALS DIGESTION LOG (Aqueous)

6010 1day rush!!

Prep Method: (Circle One) 200.2 3005A 3010A 3020A

Temp: 85°C

Analyst: E.O

Dig. tube lot: A702L8136

	Client	Sample ID	Sample Size (mL)	Test	Matrix	HNO3 Add (mL)	HCL Add (mL)	Final Vol. (mL)	pH	Comments
		Method Blank	50		W	1	2.5	50	<2	
		LCS 7080346								
1		1QH:3300-01 (A)		Se						
		MS								
		SD								
2		-02								
3		1759.18		Ca						
4		.42								
5		.57								
6		2336.01 (C)		Mn						
7		.02								
8		.03								
9		2941.01 (D)		Cam						
10		.02								
11		.03								
12		.04								
13		.05								
14		.06								
15		.07								
16		.08								
17		-09								
18		.10								
19		-11								
20		.12								

Volume Spike Added LCS: (A+B) 500 ulm

Volime Spike Added MS/SD:

HCL ID #: 7070354

HNO3 ID#: 7070445

A: 7080344

B: 7080346

Batch: 7H31109

Date: 08/31/07

2nd SEMI-ANNUAL MDL STUDY - 2006

Metals by ICPMS - EPA 6020/200.8

Instrument: Elan1
Prep: 3005A/200.2 (50ml->50ml)

Reviewed: T. Vu (May/4/07)

#	Analyte	Spike(ug/l) recom.	Spike(ug/l) Actual	MDL Runs - (ug/L) Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Calc Data (ug/L) Avrg	StdDev	MDL	final MDL	LIMS Data (ug/L) MDL	RL_1	RL_2	Validation Criteria MDL<RL	Ch'g	Ratio	%Rec	Grubbs Comm't
1	Aluminum	<=10	10	17.578	18.028	14.372	14.978	15.872	15.38	14.6	17.039	15.98	1.40	4.2	4.2	6.0	10		OK	-30%	2	160%	
2	Antimony	<=1	1	1.019	1.045	1.015	1.001	1.054	1.044	1.033	1.049	1.03	0.02	0.06	0.1	0.05	2	1	OK	13%	18	103%	
3	Arsenic	<=1	1	0.783	0.742	0.768	0.844	1.203	1.155	1.131	1.274	0.99	0.22	0.67	0.7	0.70	1		OK	no ch'g	1	99%	
4	Barium	<=1	1	0.972	1.007	1.049	1.007	1.184	1.017	1.034	1.031	1.04	0.06	0.19	0.2	0.15	1		OK	27%	5	104%	2.31
5	Beryllium	<=0.2	0.2	0.2	0.199	0.204	0.199	0.217	0.238	0.212	0.2	0.21	0.01	0.04	0.04	0.075	0.5	0.2	OK	-45%	5	104%	2.16
6	Cadmium	<=0.2	0.2	0.213	0.211	0.214	0.213	0.212	0.212	0.244	0.208	0.22	0.01	0.03	0.03	0.05	1	0.2	OK	-31%	6	108%	2.44
7	Cerium	<=1	1	0.987	1.002	1.011	0.991	1.019	1.014	1.003	1.003	1.00	0.01	0.03	0.03	0.35	1		OK	n/a	30	100%	
8	Chromium	<=1	1	1.23	1.278	1.333	1.377	1.18	1.067	1.127	1.193	1.22	0.10	0.31	0.3	0.70	2	1	OK	-56%	3	122%	
9	Cobalt	<=1	1	1.057	1.073	1.085	1.061	1.095	1.074	1.05	1.073	1.07	0.01	0.04	0.0	0.15	1		OK	-70%	23	107%	
10	Copper	<=1	1	1.066	1.073	1.175	1.164	1.743	1.302	1.032	1.36	1.24	0.23	0.70	0.7	0.40	2	1	OK	75%	1.4	124%	2.15
11	Copper[63]	<=1	1	1.09	1.112	1.201	1.207	1.785	1.335	1.068	1.401	1.27	0.24	0.71	0.7	0.30	2	1	OK	137%	1.4	127%	2.15
12	Lead	<=1	1	1.105	1.116	1.102	1.077	1.103	1.086	1.074	1.085	1.09	0.02	0.05	0.0	0.10	1		OK	-55%	22	109%	
13	Manganese	<=1	1	1.073	1.102	1.552	1.125	1.155	1.195	1.037	1.248	1.19	0.16	0.49	0.5	0.5	1		OK	no ch'g	2	119%	2.25
14	Molybdenum	<=1	1	1.015	1.01	1.018	1.004	1.051	1.01	1.002	1.033	1.02	0.02	0.05	0.0	0.15	2	1	OK	-67%	20	102%	
15	Nickel	<=1	1	1.046	1.046	1.177	1.027	1.079	1.069	0.993	1.082	1.06	0.05	0.16	0.2	0.90	2	1	OK	-82%	6	106%	2.08
16	Selenium	<=1	1	0.867	0.885	0.875	0.911	0.896	0.854	0.893	0.899	0.89	0.02	0.06	0.1	0.3	2	1	OK	-81%	18	89%	
17	Silver	<=1	1	1.247	1.184	1.34	1.175	1.209	1.177	1.16	1.183	1.21	0.06	0.18	0.2	0.10	1		OK	77%	6	121%	2.21
18	Thallium	<=1	1	1.109	1.1	1.122	1.09	1.11	1.097	1.087	1.092	1.10	0.01	0.04	0.0	0.15	1		OK	-76%	28	110%	
19	Uranium	<=1	1	1.097	1.113	1.097	1.103	1.11	1.09	1.066	1.082	1.09	0.02	0.05	0.0	0.15	1		OK	-69%	22	109%	
20	Vanadium	<=1	1	0.972	1.422	1.008	1.115	0.954	0.948	1.003	1.046	1.06	0.16	0.47	0.5	0.7	2	1	OK	-33%	2	106%	2.32
21	Zinc	<=5	2	4.006	4.411	4.049	4.403	4.151	4.138	4.032	4.69	4.24	0.24	0.73	0.7	2.5	10	5	OK	-71%	3	212%	

For Reference:

0.2ppb	*filename:*	070212-4-(	070212-4-01	070212-4-0	070212-4-0	070213-1-01	070213-1-01	070213-1-0	070213-1-014
	labnumber:	7B12068-E	7B12068-BS	7B12068-BS	7B12068-BS	7B12068-BS	7B12068-BS	7B12068-BS	7B12068-BS8
	date:	Feb/12/07	Feb/12/07	Feb/12/07	Feb/12/07	Feb/13/07	Feb/13/07	Feb/13/07	Feb/13/07
	time:	16:39	16:43	16:47	16:51	9:54	9:58	10:02	10:06
1ppb:	*filename:*	070212-4-(	070212-4-01	070212-4-0	070212-4-0	070213-1-01	070213-1-01	070213-1-0	070213-1-018
	labnumber:	7B12069-E	7B12069-BS	7B12069-BS	7B12069-BS	7B12069-BS	7B12069-BS	7B12069-BS	7B12069-BS8
	date:	Feb/12/07	Feb/12/07	Feb/12/07	Feb/12/07	Feb/13/07	Feb/13/07	Feb/13/07	Feb/13/07
	time:	16:55	16:59	17:02	17:06	10:10	10:14	10:18	10:21
2ppb	*filename:*	070212-4-(	070212-4-01	070212-4-0	070212-4-0	070213-1-02	070213-1-02	070213-1-0	070213-1-024
	labnumber:	7B12070-E	7B12070-BS	7B12070-BS	7B12070-BS	7B12070-BS	7B12070-BS	7B12070-BS	7B12070-BS8
	date:	Feb/12/07	Feb/12/07	Feb/12/07	Feb/12/07	Feb/13/07	Feb/13/07	Feb/13/07	Feb/13/07
	time:	17:10	17:14	17:26	17:30	10:33	10:37	10:41	10:45
10ppb	*filename:*	070212-4-(	070212-4-02	070212-4-0	070212-4-0	070213-1-02	070213-1-02	070213-1-0	070213-1-028
	labnumber:	7B12071-E	7B12071-BS	7B12071-BS	7B12071-BS	7B12071-BS	7B12071-BS	7B12071-BS	7B12071-BS4
	date:	Feb/12/07	Feb/12/07	Feb/12/07	Feb/12/07	Feb/13/07	Feb/13/07	Feb/13/07	Feb/13/07
	time:	17:33	17:37	17:41	17:45	10:48	10:52	10:56	11:00

MDL < spike < 10x MDL

ICPMS
INITIAL CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070823-3

Labnumber: ICV-25PPB
Filename: 070823-3-005
Analyzed: Aug/23/07 9:10:11 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	25	23.072	92	90-110	
2	Antimony	25	22.884	92	90-110	
3	Arsenic	25	25.093	100	90-110	
4	Barium	25	26.016	104	90-110	
5	Beryllium	25	24.538	98	90-110	
6	Cadmium	25	25.931	104	90-110	
7	Cerium	25	26.485	106	90-110	
8	Chromium	25	25.72	103	90-110	
9	Cobalt	25	25.695	103	90-110	
10	Copper	25	25.149	101	90-110	
11	Copper[63]	25	25.42	102	90-110	
12	Iron	250	252.113	101	90-110	
13	Lead	25	25.887	104	90-110	
14	Manganese	25	25.941	104	90-110	
15	Molybdenum	25	26.407	106	90-110	
16	Nickel	25	25.148	101	90-110	
17	Selenium	25	25.376	102	90-110	
18	Silver	25	24.924	100	90-110	
19	Thallium	25	26.823	107	90-110	
20	Uranium NT	25	21.561	86	90-110	*
21	Vanadium	25	25.232	101	90-110	
22	Zinc	25	25.41	102	90-110	

ICPMS
INITIAL CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	ICB	
Data File/Seq.#:	070823-3	Filename:	070823-3-006	
		Analyzed:	Aug/23/07	9:14:17 PM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	0.036	
2	Antimony	2	0.303	
3	Arsenic	1	0.303	
4	Barium	1	0.003	
5	Beryllium	0.5	0.007	
6	Cadmium	1	0.006	
7	Cerium	1	0.006	
8	Chromium	2	-0.167	
9	Cobalt	1	0.005	
10	Copper	2	0.019	
11	Copper[63]	2	0.005	
12	Iron	10	0.727	
13	Lead	1	0.006	
14	Manganese	1	0.008	
15	Molybdenum	2	0.1	
16	Nickel	2	0.004	
17	Selenium	2	-0.036	
18	Silver	1	0.006	
19	Thallium	1	0.136	
20	Uranium	1	0.052	
21	Vanadium	2	-0.192	
22	Zinc	10	0.08	

(*) denotes greater than 0.5x MRL

ICPMS
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument:	Elan	Labnumber:	0.2 PPB RL CHK
Data File/Seq.#:	070823-3	Filename:	070823-3-010
		Analyzed:	Aug/23/07 9:33:21 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	0.2	15.185	7593	50-150	*
2	Antimony	0.2	0.206	103	50-150	
3	Arsenic	0.2	0.491	246	50-150	*
4	Barium	0.2	0.3	150	50-150	
5	Beryllium	0.2	0.199	100	50-150	
6	Cadmium	0.2	0.214	107	50-150	
7	Cerium	0.2	0.224	112	50-150	
8	Chromium	0.2	-0.325	-163	50-150	*
9	Cobalt	0.2	0.199	100	50-150	
10	Copper	0.2	0.112	56	50-150	
11	Copper[63]	0.2	0.105	53	50-150	
12	Iron	2.0	12.699	635	50-150	*
13	Lead	0.2	0.204	102	50-150	
14	Manganese	0.2	0.142	71	50-150	
15	Molybdenum	0.2	0.553	277	50-150	*
16	Nickel	0.2	0.197	98	50-150	
17	Selenium	0.2	0.111	55	50-150	
18	Silver	0.2	0.218	109	50-150	
19	Thallium	0.2	0.202	101	50-150	
20	Uranium	0.2	0.169	85	50-150	
21	Vanadium	0.2	0.062	31	50-150	*
22	Zinc	0.2	-0.511	-256	50-150	*

0.2 ug/L < MDL for As, Cr, V, Zn

J Mo up to 0.6

only assoc. w/ EB

no +

ICPMS
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument:	Elan	Labnumber:	2.0 PPB RL CHK
Data File/Seq.#:	070823-3	Filename:	070823-3-011
		Analyzed:	Aug/23/07 9:37:11 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum NT	2	9.071	454	50-150	*
2	Antimony	2	2.077	104	50-150	
3	Arsenic	2	2.261	113	50-150	
4	Barium	2	2.123	106	50-150	
5	Beryllium	2	1.893	95	50-150	
6	Cadmium	2	2.101	105	50-150	
7	Cerium	2	2.114	106	50-150	
8	Chromium	2	1.47	74	50-150	
9	Cobalt	2	2.009	100	50-150	
10	Copper	2	1.993	100	50-150	
11	Copper[63]	2	1.923	96	50-150	
12	Iron	20	23.532	118	50-150	
13	Lead	2	2.076	104	50-150	
14	Manganese	2	1.929	96	50-150	
15	Molybdenum	2	2.118	106	50-150	
16	Nickel	2	1.964	98	50-150	
17	Selenium	2	1.992	100	50-150	
18	Silver	2	2.104	105	50-150	
19	Thallium	2	2.041	102	50-150	
20	Uranium	2	1.73	87	50-150	
21	Vanadium	2	1.688	84	50-150	
22	Zinc	2	1.552	78	50-150	

ICPMS
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070823-3

Labnumber: CCV
Filename: 070823-3-046
Analyzed: Aug/23/07 11:53:28 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	50	52.824	106	90-110	
2	Antimony	50	52.23	104	90-110	
3	Arsenic	50	50.051	100	90-110	
4	Barium	50	50.588	101	90-110	
5	Beryllium	50	46.221	92	90-110	
6	Cadmium	50	51.331	103	90-110	
7	Cerium	50	51.291	103	90-110	
8	Chromium	50	48.307	97	90-110	
9	Cobalt	50	49.72	99	90-110	
10	Copper	50	49.747	99	90-110	
11	Copper[63]	50	49.904	100	90-110	
12	Iron	500	509.501	102	90-110	
13	Lead	50	50.002	100	90-110	
14	Manganese	50	49.788	100	90-110	
15	Molybdenum	50	49.61	99	90-110	
16	Nickel	50	49.49	99	90-110	
17	Selenium	50	48.856	98	90-110	
18	Silver	50	51.285	103	90-110	
19	Thallium	50	51.367	103	90-110	
20	Uranium NT	50	40.992	82	90-110	*
21	Vanadium	50	48.926	98	90-110	
22	Zinc	50	51.007	102	90-110	

ICPMS
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	CCB	
Data File/Seq.#:	070823-3	Filename:	070823-3-047	
		Analyzed:	Aug/23/07	11:57:21 PM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum NT	10	5.288	*
2	Antimony	2	0.011	
3	Arsenic	1	0.397	
4	Barium	1	0.001	
5	Beryllium	0.5	-0.001	
6	Cadmium	1	0	
7	Cerium	1	0.007	
8	Chromium	2	-0.608	
9	Cobalt	1	-0.003	
10	Copper	2	-0.083	
11	Copper[63]	2	-0.095	
12	Iron	10	-1.734	
13	Lead	1	0.005	
14	Manganese	1	-0.079	
15	Molybdenum	2	-0.072	
16	Nickel	2	-0.002	
17	Selenium	2	0.005	
18	Silver	1	0	
19	Thallium	1	0.039	
20	Uranium	1	0.011	
21	Vanadium	2	-0.128	
22	Zinc	10	0.247	

(*) denotes greater than 0.5x MRL

ICPMS
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument:	Elan	Labnumber:	CCV
Data File/Seq.#:	070823-3	Filename:	070823-3-058
		Analyzed:	Aug/24/07 12:40:02 AM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum NT	50	56.439	113	90-110	*
2	Antimony	50	50.357	101	90-110	
3	Arsenic	50	50.193	100	90-110	
4	Barium	50	49.756	100	90-110	
5	Beryllium	50	52.076	104	90-110	
6	Cadmium	50	50.186	100	90-110	
7	Cerium	50	52.246	104	90-110	
8	Chromium	50	49.932	100	90-110	
9	Cobalt	50	51.04	102	90-110	
10	Copper	50	50.371	101	90-110	
11	Copper[63]	50	50.888	102	90-110	
12	Iron	500	503.153	101	90-110	
13	Lead	50	50.711	101	90-110	
14	Manganese	50	50.56	101	90-110	
15	Molybdenum	50	49.133	98	90-110	
16	Nickel	50	50.376	101	90-110	
17	Selenium	50	48.531	97	90-110	
18	Silver	50	50.435	101	90-110	
19	Thallium	50	51.945	104	90-110	
20	Uranium NT	50	41.607	83	90-110	*
21	Vanadium	50	50.372	101	90-110	
22	Zinc	50	51.321	103	90-110	

ICPMS
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	CCB	
Data File/Seq.#:	070823-3	Filename:	070823-3-059	
		Analyzed:	Aug/24/07	12:43:55 AM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	5.925	*
2	Antimony	2	0.012	
3	Arsenic	1	0.387	
4	Barium	1	0.01	
5	Beryllium	0.5	0.001	
6	Cadmium	1	0.001	
7	Cerium	1	0.008	
8	Chromium	2	-0.625	
9	Cobalt	1	-0.002	
10	Copper	2	-0.081	
11	Copper[63]	2	-0.095	
12	Iron	10	-2.127	
13	Lead	1	0.01	
14	Manganese	1	-0.073	
15	Molybdenum	2	-0.076	
16	Nickel	2	-0.007	
17	Selenium	2	0.003	
18	Silver	1	-0.001	
19	Thallium	1	0.037	
20	Uranium	1	0.014	
21	Vanadium	2	-0.18	
22	Zinc	10	0.248	

(*) denotes greater than 0.5x MRL

ICPMS
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070823-3

Labnumber: CCV
Filename: 070823-3-071
Analyzed: Aug/24/07 1:30:38 AM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum NT	50	57.808	116	90-110	*
2	Antimony	50	51.069	102	90-110	
3	Arsenic	50	50.644	101	90-110	
4	Barium	50	50.737	101	90-110	
5	Beryllium	50	54.054	108	90-110	
6	Cadmium	50	50.584	101	90-110	
7	Cerium	50	53.112	106	90-110	
8	Chromium	50	50.802	102	90-110	
9	Cobalt	50	51.308	103	90-110	
10	Copper	50	51.308	103	90-110	
11	Copper[63]	50	51.452	103	90-110	
12	Iron	500	505.746	101	90-110	
13	Lead	50	51.991	104	90-110	
14	Manganese	50	50.937	102	90-110	
15	Molybdenum	50	50.234	100	90-110	
16	Nickel	50	51.275	103	90-110	
17	Selenium	50	48.814	98	90-110	
18	Silver	50	51.333	103	90-110	
19	Thallium	50	53.079	106	90-110	
20	Uranium NT	50	42.887	86	90-110	*
21	Vanadium	50	51.707	103	90-110	
22	Zinc	50	51.369	103	90-110	

ICPMS
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	CCB	
Data File/Seq.#:	070823-3	Filename:	070823-3-072	
		Analyzed:	Aug/24/07	1:34:31 AM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	5.873	*
2	Antimony	2	0.01	
3	Arsenic	1	0.343	
4	Barium	1	0.007	
5	Beryllium	0.5	0.002	
6	Cadmium	1	-0.002	
7	Cerium	1	0.008	
8	Chromium	2	-0.52	
9	Cobalt	1	-0.002	
10	Copper	2	-0.086	
11	Copper[63]	2	-0.098	
12	Iron	10	-1.103	
13	Lead	1	0.031	
14	Manganese	1	-0.076	
15	Molybdenum	2	-0.074	
16	Nickel	2	-0.007	
17	Selenium	2	-0.002	
18	Silver	1	-0.001	
19	Thallium	1	0.035	
20	Uranium	1	0.015	
21	Vanadium	2	-0.545	
22	Zinc	10	0.252	

(*) denotes greater than 0.5x MRL

ICPMS
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument: Elan
Data File/Seq.#: 070823-3

Labnumber: 2.0 PPB RL CHK
Filename: 070823-3-073
Analyzed: Aug/24/07 1:38:26 AM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	2	5.207	260	50-150	*
2	Antimony	2	2.09	105	50-150	
3	Arsenic	2	2.659	133	50-150	
4	Barium	2	2.239	112	50-150	
5	Beryllium	2	2.112	106	50-150	
6	Cadmium	2	2.056	103	50-150	
7	Cerium	2	2.265	113	50-150	
8	Chromium	2	1.654	83	50-150	
9	Cobalt	2	2.119	106	50-150	
10	Copper	2	2.348	117	50-150	
11	Copper[63]	2	2.404	120	50-150	
12	Iron	20	20.307	102	50-150	
13	Lead	2	2.134	107	50-150	
14	Manganese	2	2.024	101	50-150	
15	Molybdenum	2	1.885	94	50-150	
16	Nickel	2	2.525	126	50-150	
17	Selenium	2	2.126	106	50-150	
18	Silver	2	2.081	104	50-150	
19	Thallium	2	2.132	107	50-150	
20	Uranium	2	1.788	89	50-150	
21	Vanadium	2	1.915	96	50-150	
22	Zinc	2	1.905	95	50-150	

Method 6020/200.8 - Summary Report

Sample ID: ICSA
Sample Date/Time: Thursday, August 23, 2007 21:19:21
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\working methods\050628.mth
Dataset File: C:\elandata\Dataset\Default\0708DASET\070823-3\ICSA.007

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	48.334	1.667	0.15838	12.04	ug/L
	Al	27	327554245.786	11466.048	80831.64294	0.19	ug/L
	V	51	5867.220	64.030	0.87747	27.76	ug/L
	Cr	52	24617.491	10879.917	2.61803	10.77	ug/L
	Mn	55	20930.533	1047.382	2.43024	0.94	ug/L
	Co	59	2452.902	56.001	0.37120	3.79	ug/L
	Ni	60	2445.411	37.593	1.70098	2.32	ug/L
	Cu	63	7091.497	400.343	2.19626	1.15	ug/L
	Cu	65	3309.416	187.670	2.10873	2.28	ug/L
	Zn	66	8233.788	1276.070	7.76587	2.43	ug/L
>	Ge	72	66869.475	74248.189			mg/L
	As	75	2915.701	3387.632	-0.13524	50.77	ug/L
	Se	82	169.418	52.406	1.07641	19.43	ug/L
	Kr	84	145.857	140.933			mg/L
	Mo	98	6424305.656	545.352	2327.09711	0.59	ug/L
	Ag	107	1374.413	19.667	0.24116	2.37	ug/L
	Cd	114	12327.884	21.713	3.65063	2.00	ug/L
	Sb	121	1878.143	93.668	0.40667	7.59	ug/L
	Ba	135	1282.737	146.336	0.87498	2.99	ug/L
>	Tb	159	854805.465	976501.894			ug/L
	Tl	205	5310.374	377.009	0.33573	3.17	ug/L
	Pb	208	19401.049	291.004	0.88945	1.92	ug/L
	U	238	2272.537	256.672	0.06970	1.89	ug/L
	Na	23	325735137.179	82788.655	101.09100	0.70	mg/L
	Mg	24	233395591.431	12364.806	100.88314	1.58	mg/L
	K	39	443095128.964	232722.731	113.72978	1.92	mg/L
	Ca	44	13823084.464	4711.491	117.89693	1.13	mg/L
	Fe	54	39286083.240	18963.418	139798.74317	0.43	ug/L
>	Sc	45	185953.303	314970.140			mg/L
	Ce	140	5394.406	44.667	0.35980	2.80	ug/L
>	In	115	557472.214	738532.525			ug/L

only assoc. w/ EB
low interferents

Method 6020/200.8 - Summary Report

Sample ID: ICSAB
Sample Date/Time: Thursday, August 23, 2007 21:24:26
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\working methods\050628.mth
Dataset File: C:\elandata\Dataset\Default\0708DASET\070823-3\ICSAB.008

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	37.667	1.667	0.11951	13.30	ug/L
	Al	27	334431367.024	11466.048	80555.70083	1.62	ug/L
	V	51	6532.103	64.030	0.95461	1.83	ug/L
	Cr	52	119114.212	10879.917	18.79449	2.96	ug/L
	Mn	55	154945.145	1047.382	18.27283	1.29	ug/L
	Co	59	111572.310	56.001	16.81561	0.62	ug/L
	Ni	60	24820.469	37.593	17.06762	1.15	ug/L
	Cu	63	50701.339	400.343	16.03009	0.59	ug/L
	Cu	65	24494.232	187.670	15.93915	0.25	ug/L
	Zn	66	20312.981	1276.070	20.46808	1.57	ug/L
>	Ge	72	68511.636	74248.189			mg/L
	As	75	21032.295	3387.632	17.50164	2.30	ug/L
	Se	82	154.128	52.406	0.90531	25.01	ug/L
	Kr	84	150.119	140.933			mg/L
	Mo	98	6758066.883	545.352	2388.70496	2.50	ug/L
	Ag	107	102042.363	19.667	17.70023	0.71	ug/L
	Cd	114	74702.416	21.713	21.61808	1.24	ug/L
	Sb	121	1673.448	93.668	0.35085	4.27	ug/L
	Ba	135	1357.745	146.336	0.90656	4.21	ug/L
>	Tb	159	885390.469	976501.894			ug/L
	Tl	205	5041.607	377.009	0.30584	2.09	ug/L
	Pb	208	19299.315	291.004	0.85362	0.84	ug/L
	U	238	1719.121	256.672	0.04885	2.62	ug/L
	Na	23	329964950.984	82788.655	97.84113	1.73	mg/L
	Mg	24	234558792.507	12364.806	96.86236	2.35	mg/L
	K	39	466612810.198	232722.731	114.43717	1.81	mg/L
	Ca	44	14551662.929	4711.491	118.56497	0.80	mg/L
	Fe	54	40883021.371	18963.418	138960.77165	0.35	ug/L
>	Sc	45	194691.910	314970.140			mg/L
	Ce	140	5474.437	44.667	0.34235	1.54	ug/L
>	In	115	594512.224	738532.525			ug/L

RUN LOG

Intrument: *Elan*

Calib.file #: 070823-3 Calib. date: 8/23/2007

#	File_Name	Lab_Number	Dilution	Analyzed	Time
1	070823-3-001	Blank	1	Aug/23/07	8:46:09 PM
2	070823-3-002	Standard 1	1	Aug/23/07	8:51:13 PM
3	070823-3-003	Standard 2	1	Aug/23/07	8:57:19 PM
4	070823-3-004	Standard 3	1	Aug/23/07	9:03:25 PM
5	070823-3-005	ICV-25PPB	1	Aug/23/07	9:10:11 PM
6	070823-3-006	ICB	1	Aug/23/07	9:14:17 PM
7	070823-3-007	ICSA	1	Aug/23/07	9:19:21 PM
8	070823-3-008	ICSAB	1	Aug/23/07	9:24:26 PM
9	070823-3-009	RINSE	1	Aug/23/07	9:29:31 PM
10	070823-3-010	0.2 PPB RL CHK	1	Aug/23/07	9:33:21 PM
11	070823-3-011	2.0 PPB RL CHK	1	Aug/23/07	9:37:11 PM
12	070823-3-012	IQH1587-02	1	Aug/23/07	9:41:53 PM
13	070823-3-013	IQH1587-03	1	Aug/23/07	9:45:44 PM
14	070823-3-014	7H22127-BLK1	1	Aug/23/07	9:49:36 PM
15	070823-3-015	7H22127-BS1	1	Aug/23/07	9:53:29 PM
16	070823-3-016	IQH1500-01	1	Aug/23/07	9:57:22 PM
17	070823-3-017	7H22127-MS1	1	Aug/23/07	10:01:12 PM
18	070823-3-018	7H22127-MSD1	1	Aug/23/07	10:05:06 PM
19	070823-3-019	7H22116-BLK1	1	Aug/23/07	10:08:58 PM
20	070823-3-020	7H22116-BS1	1	Aug/23/07	10:12:49 PM
21	070823-3-021	IQH1550-08	1	Aug/23/07	10:16:41 PM
22	070823-3-022	CCV	1	Aug/23/07	10:20:34 PM
23	070823-3-023	CCB	1	Aug/23/07	10:24:27 PM
24	070823-3-024	7H22128-BLK1	1	Aug/23/07	10:28:20 PM
25	070823-3-025	7H22128-BS1	1	Aug/23/07	10:32:14 PM
26	070823-3-026	IQH1602-01	1	Aug/23/07	10:36:07 PM
27	070823-3-027	7H22128-MS1	1	Aug/23/07	10:39:58 PM
28	070823-3-028	7H22128-MSD1	1	Aug/23/07	10:43:49 PM
29	070823-3-029	7H22116-MS1	1	Aug/23/07	10:47:41 PM
30	070823-3-030	7H22116-MSD1	1	Aug/23/07	10:51:33 PM
31	070823-3-031	7H22116-PS1	1	Aug/23/07	10:55:25 PM
32	070823-3-032	IQH1550-02	1	Aug/23/07	10:59:18 PM
33	070823-3-033	IQH1550-04	1	Aug/23/07	11:03:10 PM
34	070823-3-034	CCV	1	Aug/23/07	11:07:01 PM
35	070823-3-035	CCB	1	Aug/23/07	11:10:55 PM
36	070823-3-036	7H23112-BLK1	1	Aug/23/07	11:14:47 PM
37	070823-3-037	7H23112-BS1	1	Aug/23/07	11:18:39 PM
38	070823-3-038	7H23112-BS2	1	Aug/23/07	11:22:32 PM
39	070823-3-039	7H23112-BS3	1	Aug/23/07	11:26:25 PM
40	070823-3-040	7H23112-BS4	1	Aug/23/07	11:30:18 PM
41	070823-3-041	IQH2100-02	1	Aug/23/07	11:34:12 PM
42	070823-3-042	IQH1550-06	1	Aug/23/07	11:38:03 PM
43	070823-3-043	IQH1550-10	1	Aug/23/07	11:41:54 PM
44	070823-3-044	IQH1550-13	1	Aug/23/07	11:45:45 PM
45	070823-3-045	IQH1550-15	1	Aug/23/07	11:49:36 PM
46	070823-3-046	CCV	1	Aug/23/07	11:53:28 PM
47	070823-3-047	CCB	1	Aug/23/07	11:57:21 PM
48	070823-3-048	7H23112-MS1	1	Aug/24/07	12:01:15 AM
49	070823-3-049	7H23112-MSD1	1	Aug/24/07	12:05:09 AM
50	070823-3-050	IQH1951-02	1	Aug/24/07	12:09:04 AM
51	070823-3-051	7H23106-BLK1	1	Aug/24/07	12:12:56 AM
52	070823-3-052	7H23106-BS1	1	Aug/24/07	12:16:48 AM
53	070823-3-053	IQH1349-02	1	Aug/24/07	12:20:40 AM
54	070823-3-054	7H23106-MS1	1	Aug/24/07	12:24:33 AM
55	070823-3-055	IQH1550-17	1	Aug/24/07	12:28:25 AM
56	070823-3-056	IQH1824-01	1	Aug/24/07	12:32:17 AM
57	070823-3-057	IQH1824-02	1	Aug/24/07	12:36:09 AM
58	070823-3-058	CCV	1	Aug/24/07	12:40:02 AM
59	070823-3-059	CCB	1	Aug/24/07	12:43:55 AM
60	070823-3-060	BP RL CHK	1	Aug/24/07	12:47:51 AM
61	070823-3-061	7H23106-MSD1	1	Aug/24/07	12:51:46 AM
62	070823-3-062	IQH1483-02	1	Aug/24/07	12:55:39 AM
63	070823-3-063	IQH1759-18	1	Aug/24/07	12:59:32 AM

64	070823-3-064	IQH1759-42	1	Aug/24/07	1:03:26 AM
65	070823-3-065	IQH1759-57	1	Aug/24/07	1:07:20 AM
66	070823-3-066	IQH1824-03	1	Aug/24/07	1:11:13 AM
67	070823-3-067	IQH1824-04	1	Aug/24/07	1:15:06 AM
68	070823-3-068	IQH1824-05	1	Aug/24/07	1:18:59 AM
69	070823-3-069	IQH1824-05	1	Aug/24/07	1:22:52 AM
70	070823-3-070	IQH1824-06	1	Aug/24/07	1:26:44 AM
71	070823-3-071	CCV	1	Aug/24/07	1:30:38 AM
72	070823-3-072	CCB	1	Aug/24/07	1:34:31 AM
73	070823-3-073	BP RL CHK	1	Aug/24/07	1:38:26 AM
74	070823-3-074	IQH1781-01	1	Aug/24/07	1:42:23 AM
75	070823-3-075	IQH1781-02	1	Aug/24/07	1:46:17 AM
76	070823-3-076	IQH1781-03	1	Aug/24/07	1:50:13 AM
77	070823-3-077	IQH1781-04	1	Aug/24/07	1:54:06 AM
78	070823-3-078	IQH1781-05	1	Aug/24/07	1:57:58 AM
79	070823-3-079	IQH1824-07	1	Aug/24/07	2:01:49 AM
80	070823-3-080	IQH1824-08	1	Aug/24/07	2:05:39 AM
81	070823-3-081	IQH1824-09	1	Aug/24/07	2:09:30 AM
82	070823-3-082	CCV	1	Aug/24/07	2:13:22 AM
83	070823-3-083	CCB	1	Aug/24/07	2:17:15 AM
84	070823-3-084	BP RL CHK	1	Aug/24/07	2:21:11 AM
85	070823-3-085	7H23097-BLK1	1	Aug/24/07	2:25:06 AM
86	070823-3-086	7H23097-BS1	1	Aug/24/07	2:28:58 AM
87	070823-3-087	7H23097-BS2	1	Aug/24/07	2:32:51 AM
88	070823-3-088	7H23097-BS3	1	Aug/24/07	2:36:45 AM
89	070823-3-089	7H23097-BS4	1	Aug/24/07	2:40:39 AM
90	070823-3-090	IQH1741-01	1	Aug/24/07	2:44:33 AM
91	070823-3-091	7H23097-MS1	1	Aug/24/07	2:48:27 AM
92	070823-3-092	7H23097-MSD1	1	Aug/24/07	2:52:22 AM
93	070823-3-093	IQH1741-02	1	Aug/24/07	2:56:17 AM
94	070823-3-094	CCV	1	Aug/24/07	3:00:11 AM
95	070823-3-095	CCB	1	Aug/24/07	3:04:04 AM
96	070823-3-096	BP RL CHK	1	Aug/24/07	3:08:00 AM

METALS DIGESTION LOG (Aqueous)

Prep Method: (Circle One) 200.2 3005A 3010A 3020A

6020

Temp: 85°C

Analyst: CG

Dig. tube lot:

38

	Client	Sample ID	Sample Size (mL)	Test	Matrix	HNO3 Add (mL)	HCL Add (mL)	Final Vol. (mL)	pH	Comments
	524091	Method Blank	50	Zn	W	.5	.25	50	<2	MS 2
		LCS 7080161								
1		IQH1349 -02								
		MS								
		SD								
2	524091	IQH1483 -02		Zn						
3		IQH1759 -18		CAM						
4		-42								
5		-57								
6		IQH1781 -01								
7		-02								
8		-03								
9		-04								
10		-05								
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										

ICPMS: 7080161 = 400 µl

Volume Spike Added LCS:

Volime Spike Added MS/SD:

HCL ID #: 7070354

HNO3 ID#: 7070445

Batch: 7H23106

Date: 8/23/07

ICPMS
INITIAL CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070825-2

Labnumber: ICV-25PPB
Filename: 070825-2-006
Analyzed: Aug/25/07 11:15:40 AM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	25	23.804	95	90-110	
2	Antimony	25	22.682	91	90-110	
3	Arsenic	25	24.595	98	90-110	
4	Barium	25	25.028	100	90-110	
5	Beryllium	25	23.85	95	90-110	
6	Cadmium	25	25.17	101	90-110	
7	Cerium	25	23.464	94	90-110	
8	Chromium	25	25.95	104	90-110	
9	Cobalt	25	25.765	103	90-110	
10	Copper	25	25.328	101	90-110	
11	Copper[63]	25	25.232	101	90-110	
12	Iron	250	248.194	99	90-110	
13	Lead	25	26.091	104	90-110	
14	Manganese	25	26.146	105	90-110	
15	Molybdenum	25	25.359	101	90-110	
16	Nickel	25	24.876	100	90-110	
17	Selenium	25	24.463	98	90-110	
18	Silver	25	24.412	98	90-110	
19	Thallium	25	26.724	107	90-110	
20	Uranium	25	26.057	104	90-110	
21	Vanadium	25	25.778	103	90-110	
22	Zinc	25	25.531	102	90-110	

ICPMS
INITIAL CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	ICB
Data File/Seq.#:	070825-2	Filename:	070825-2-007
		Analyzed:	Aug/25/07 11:21:18 AM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	0.499	
2	Antimony	2	-0.019	
3	Arsenic	1	0.081	
4	Barium	1	-0.002	
5	Beryllium	0.5	0.007	
6	Cadmium	1	0.001	
7	Cerium	1	0.001	
8	Chromium	2	0.035	
9	Cobalt	1	0.003	
10	Copper	2	0	
11	Copper[63]	2	-0.001	
12	Iron	10	0.615	
13	Lead	1	0.003	
14	Manganese	1	0.026	
15	Molybdenum	2	0.009	
16	Nickel	2	0.003	
17	Selenium	2	0.039	
18	Silver	1	-0.009	
19	Thallium	1	0.007	
20	Uranium	1	0.007	
21	Vanadium	2	-0.013	
22	Zinc	10	0.024	

(*) denotes greater than 0.5x MRL

ICPMS
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument:	Elan	Labnumber:	0.2 PPB RL CHK
Data File/Seq.#:	070825-2	Filename:	070825-2-011
		Analyzed:	Aug/25/07 11:40:22 AM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum NT	0.2	-0.113	-57	50-150	*
2	Antimony "	0.2	-0.089	-45	50-150	*
3	Arsenic	0.2	0.454	227	50-150	*
4	Barium	0.2	0.192	96	50-150	
5	Beryllium	0.2	0.221	111	50-150	
6	Cadmium	0.2	0.199	100	50-150	
7	Cerium	0.2	0.187	93	50-150	
8	Chromium	0.2	0.664	332	50-150	*
9	Cobalt	0.2	0.203	102	50-150	
10	Copper	0.2	0.199	100	50-150	
11	Copper[63]	0.2	0.204	102	50-150	
12	Iron NT	2.0	3.212	161	50-150	*
13	Lead	0.2	0.207	103	50-150	
14	Manganese	0.2	0.235	118	50-150	
15	Molybdenum	0.2	0.214	107	50-150	
16	Nickel	0.2	0.196	98	50-150	
17	Selenium	0.2	0.258	129	50-150	
18	Silver	0.2	0.108	54	50-150	
19	Thallium	0.2	0.206	103	50-150	
20	Uranium	0.2	0.211	105	50-150	
21	Vanadium	0.2	0.235	118	50-150	
22	Zinc	0.2	-0.871	-435	50-150	*

0.2 ug/L < MDL for As, Cr, Zn

ICPMS
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument: Elan
Data File/Seq.#: 070825-2

Labnumber: 2.0 PPB RL CHK
Filename: 070825-2-012
Analyzed: Aug/25/07 11:44:12 AM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	2	1.518	76	50-150	
2	Antimony	2	1.714	86	50-150	
3	Arsenic	2	2.373	119	50-150	
4	Barium	2	1.907	95	50-150	
5	Beryllium	2	2.061	103	50-150	
6	Cadmium	2	1.988	99	50-150	
7	Cerium	2	1.878	94	50-150	
8	Chromium	2	2.525	126	50-150	
9	Cobalt	2	2.101	105	50-150	
10	Copper	2	2.115	106	50-150	
11	Copper[63]	2	2.099	105	50-150	
12	Iron	20	22.747	114	50-150	
13	Lead	2	2.186	109	50-150	
14	Manganese	2	2.132	107	50-150	
15	Molybdenum	2	1.979	99	50-150	
16	Nickel	2	2.028	101	50-150	
17	Selenium	2	1.901	95	50-150	
18	Silver	2	1.94	97	50-150	
19	Thallium	2	2.166	108	50-150	
20	Uranium	2	2.233	112	50-150	
21	Vanadium	2	1.788	89	50-150	
22	Zinc	2	1.006	50	50-150	

ICPMS
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070825-2

Labnumber: CCV
Filename: 070825-2-023
Analyzed: Aug/25/07 12:26:43 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	50	47.265	95	90-110	
2	Antimony	50	49.239	98	90-110	
3	Arsenic	50	47.897	96	90-110	
4	Barium	50	47.443	95	90-110	
5	Beryllium	50	49.7	99	90-110	
6	Cadmium	50	49.424	99	90-110	
7	Cerium	50	43.655	87	90-110	*
8	Chromium	50	49.532	99	90-110	
9	Cobalt	50	50.57	101	90-110	
10	Copper	50	52.051	104	90-110	
11	Copper[63]	50	51.682	103	90-110	
12	Iron	500	499.723	100	90-110	
13	Lead	50	52.426	105	90-110	
14	Manganese	50	50.47	101	90-110	
15	Molybdenum	50	48.639	97	90-110	
16	Nickel	50	49.923	100	90-110	
17	Selenium	50	47.071	94	90-110	
18	Silver	50	49.545	99	90-110	
19	Thallium	50	53.075	106	90-110	
20	Uranium	50	51.028	102	90-110	
21	Vanadium	50	49.4	99	90-110	
22	Zinc	50	52.538	105	90-110	

ICPMS
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	CCB	
Data File/Seq.#:	070825-2	Filename:	070825-2-024	
		Analyzed:	Aug/25/07	12:30:37 PM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	-1.072	
2	Antimony	2	-0.351	
3	Arsenic	1	0.024	
4	Barium	1	0	
5	Beryllium	0.5	-0.001	
6	Cadmium	1	-0.003	
7	Cerium	1	0.002	
8	Chromium	2	0.071	
9	Cobalt	1	-0.003	
10	Copper	2	-0.024	
11	Copper[63]	2	-0.03	
12	Iron	10	-2.456	
13	Lead	1	0.013	
14	Manganese	1	-0.002	
15	Molybdenum	2	0.024	
16	Nickel	2	-0.019	
17	Selenium	2	0.057	
18	Silver	1	-0.095	
19	Thallium	1	0.042	
20	Uranium	1	0.022	
21	Vanadium	2	0.267	
22	Zinc	10	0.203	

(*) denotes greater than 0.5x MRL

ICPMS
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument: Elan
Data File/Seq.#: 070825-2

Labnumber: 2.0 PPB RL CHK
Filename: 070825-2-025
Analyzed: Aug/25/07 12:34:32 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	2	1.161	58	50-150	
2	Antimony	2	1.653	83	50-150	
3	Arsenic	2	2.263	113	50-150	
4	Barium	2	1.934	97	50-150	
5	Beryllium	2	1.975	99	50-150	
6	Cadmium	2	2.002	100	50-150	
7	Cerium	2	1.933	97	50-150	
8	Chromium	2	2.235	112	50-150	
9	Cobalt	2	2.099	105	50-150	
10	Copper	2	2.109	105	50-150	
11	Copper[63]	2	2.125	106	50-150	
12	Iron	20	19.944	100	50-150	
13	Lead	2	2.151	108	50-150	
14	Manganese	2	2.131	107	50-150	
15	Molybdenum	2	1.946	97	50-150	
16	Nickel	2	2.061	103	50-150	
17	Selenium	2	1.979	99	50-150	
18	Silver	2	1.963	98	50-150	
19	Thallium	2	2.165	108	50-150	
20	Uranium	2	2.195	110	50-150	
21	Vanadium	2	2.069	103	50-150	
22	Zinc	2	1.197	60	50-150	

Method 6020/200.8 - Summary Report

Sample ID: ICSA
Sample Date/Time: Saturday, August 25, 2007 11:26:22
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\working methods\050628-p.mth
Dataset File: C:\elandata\Dataset\Default\0708DASET\070825-2\ICSA.008

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	70.668	5.667	0.16646	25.28	ug/L
	Al	27	S	11381.335	S	S	ug/L
	V	51	2117.223	-3685.656	0.42733	37.23	ug/L
	Cr	52	49412.195	19084.266	2.40346	1.60	ug/L
	Mn	55	51709.638	2170.854	2.91683	0.53	ug/L
	Co	59	5462.766	219.004	0.36631	1.93	ug/L
	Ni	60	6664.850	177.706	1.99378	4.80	ug/L
	Cu	63	19058.897	444.678	2.60673	1.21	ug/L
	Cu	65	8348.523	262.338	2.29187	0.93	ug/L
	Zn	66	18703.100	3030.685	7.58800	1.58	ug/L
>	Ge	72	159129.609	147449.191			mg/L
	As	75	10831.754	11577.741	-0.69208	15.81	ug/L
	Se	82	369.585	89.174	1.09166	10.71	ug/L
	Kr	84	383.897	352.255			mg/L
	Mo	98	10317354.529	569.580	1743.66728	0.07	ug/L
	Ag	107	2597.929	1117.388	0.11660	4.81	ug/L
	Cd	114	22228.049	87.378	3.21323	2.54	ug/L
	Sb	121	7082.494	3638.833	0.36300	11.15	ug/L
	Ba	135	2045.167	61.334	0.74194	0.97	ug/L
>	Tb	159	1273740.514	1608307.972			ug/L
	Tl	205	6988.780	822.365	0.28290	2.84	ug/L
	Pb	208	29502.607	1171.031	0.87736	0.56	ug/L
	U	238	2408.560	992.044	0.04601	2.55	ug/L
	Na	23	S	106922.679	S	S	mg/L
	Mg	24	371352812.220	15796.624	93.51498	1.43	mg/L
	K	39	S	520252.529	S	S	mg/L
	Ca	44	30615906.397	18807.568	111.54569	1.84	mg/L
	Fe	54	77016397.192	40083.743	120234.12779	3.34	ug/L
>	Sc	45	455405.444	567664.317			mg/L
	Ce	140	8713.411	256.005	0.30499	0.89	ug/L
>	In	115	974882.728	1268740.877			ug/L

low interferents in assoc. sample

Method 6020/200.8 - Summary Report

Sample ID: ICSAB

Sample Date/Time: Saturday, August 25, 2007 11:31:27
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\working methods\050628-p.mth
Dataset File: C:\elandata\Dataset\Default\0708DASET\070825-2\ICSAB.009

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	69.668	5.667	0.16639	4.67	ug/L
	Al	27	S	11381.335	S	S	ug/L
	V	51	1207.330	-3685.656	0.36494	10.85	ug/L
	Cr	52	262504.850	19084.266	20.53977	1.26	ug/L
	Mn	55	369638.145	2170.854	22.06026	1.87	ug/L
	Co	59	247769.799	219.004	17.63744	2.29	ug/L
	Ni	60	56400.258	177.706	17.58436	1.78	ug/L
	Cu	63	116859.552	444.678	16.59365	1.58	ug/L
	Cu	65	54244.009	262.338	15.58301	1.35	ug/L
	Zn	66	43166.565	3030.685	19.96563	0.91	ug/L
>	Ge	72	156584.456	147449.191			mg/L
	As	75	49785.524	11577.741	15.89438	2.24	ug/L
	Se	82	338.954	89.174	0.99253	7.62	ug/L
	Kr	84	428.112	352.255			mg/L
	Mo	98	10270506.028	569.580	1764.24675	2.09	ug/L
	Ag	107	185321.561	1117.388	15.67242	1.58	ug/L
	Cd	114	125669.567	87.378	18.52181	1.76	ug/L
	Sb	121	5690.857	3638.833	0.21324	3.88	ug/L
	Ba	135	2001.827	61.334	0.73798	3.95	ug/L
>	Tb	159	1262614.827	1608307.972			ug/L
	Tl	205	6927.749	822.365	0.28292	2.50	ug/L
	Pb	208	29214.654	1171.031	0.87643	1.18	ug/L
	U	238	2414.229	992.044	0.04676	10.45	ug/L
	Na	23	S	106922.679	S	S	mg/L
	Mg	24	376643164.303	15796.624	92.48313	1.26	mg/L
	K	39	S	520252.529	S	S	mg/L
	Ca	44	31473878.628	18807.568	111.79781	0.27	mg/L
	Fe	54	78787606.018	40083.743	119896.34134	1.10	ug/L
>	Sc	45	467116.870	567664.317			mg/L
	Ce	140	8750.434	256.005	0.30835	1.70	ug/L
>	In	115	968618.585	1268740.877			ug/L

RUN LOG

Intrument: *Elan*

Calib.file #: 070825-2 Calib. date: 8/25/2007

#	File_Name	Lab_Number	Dilution	Analyzed	Time
1	070825-2-001	Blank	1	Aug/25/07	10:47:15 AM
2	070825-2-002	Standard 1	1	Aug/25/07	10:52:20 AM
3	070825-2-003	Standard 2	1	Aug/25/07	10:58:25 AM
4	070825-2-004	Standard 3	1	Aug/25/07	11:04:31 AM
5	070825-2-005	ICV-25PPB	1	Aug/25/07	11:11:18 AM
6	070825-2-006	ICV-25PPB	1	Aug/25/07	11:15:40 AM
7	070825-2-007	ICB	1	Aug/25/07	11:21:18 AM
8	070825-2-008	ICSA	1	Aug/25/07	11:26:22 AM
9	070825-2-009	ICSAB	1	Aug/25/07	11:31:27 AM
10	070825-2-010	RINSE	1	Aug/25/07	11:36:32 AM
11	070825-2-011	0.2 PPB RL CHK	1	Aug/25/07	11:40:22 AM
12	070825-2-012	2.0 PPB RL CHK	1	Aug/25/07	11:44:12 AM
13	070825-2-013	7H24146-BLK1	1	Aug/25/07	11:48:03 AM
14	070825-2-014	~~7H24146-BS1~~	1	Aug/25/07	11:51:54 AM
15	070825-2-015	IQH1759-01	1	Aug/25/07	11:55:47 AM
16	070825-2-016	~~7H24146-MS1~~	1	Aug/25/07	11:59:39 AM
17	070825-2-017	7H24146-MSD1	1	Aug/25/07	12:03:31 PM
18	070825-2-018	7H24146-PS1	1	Aug/25/07	12:07:25 PM
19	070825-2-019	IQH1943-01	1	Aug/25/07	12:11:19 PM
20	070825-2-020	IQH1956-01	1	Aug/25/07	12:15:10 PM
21	070825-2-021	IQH1956-02	1	Aug/25/07	12:19:01 PM
22	070825-2-022	IQH1956-03	1	Aug/25/07	12:22:51 PM
23	070825-2-023	CCV	1	Aug/25/07	12:26:43 PM
24	070825-2-024	CCB	1	Aug/25/07	12:30:37 PM
25	070825-2-025	BP RL CHK	1	Aug/25/07	12:34:32 PM
26	070825-2-026	IQH1943-01	1	Aug/25/07	12:39:38 PM
27	070825-2-027	IQH2096-01	1	Aug/25/07	12:43:30 PM
28	070825-2-028	IQH2096-02	1	Aug/25/07	12:47:22 PM
29	070825-2-029	IQH2096-03	1	Aug/25/07	12:51:14 PM
30	070825-2-030	IQH2096-04	1	Aug/25/07	12:55:06 PM
31	070825-2-031	IQH2096-05	1	Aug/25/07	12:58:59 PM
32	070825-2-032	IQH2186-01	1	Aug/25/07	1:02:52 PM
33	070825-2-033	IQH2186-02	1	Aug/25/07	1:06:45 PM
34	070825-2-034	IQH2186-03	1	Aug/25/07	1:10:38 PM
35	070825-2-035	IQH2186-04	1	Aug/25/07	1:14:32 PM
36	070825-2-036	CCV	1	Aug/25/07	1:18:25 PM
37	070825-2-037	CCB	1	Aug/25/07	1:22:19 PM
38	070825-2-038	BP RL CHK	1	Aug/25/07	1:27:02 PM
39	070825-2-039	IQH1956-01	1	Aug/25/07	1:30:56 PM
40	070825-2-040	IQH1956-02	1	Aug/25/07	1:34:49 PM
41	070825-2-041	IQH1943-01	1	Aug/25/07	1:38:41 PM
42	070825-2-042	IQH2096-02	1	Aug/25/07	1:42:34 PM
43	070825-2-043	IQH2096-03	1	Aug/25/07	1:46:27 PM
44	070825-2-044	IQH2096-04	1	Aug/25/07	1:50:21 PM
45	070825-2-045	CCV	1	Aug/25/07	1:54:14 PM
46	070825-2-046	CCB	1	Aug/25/07	1:58:08 PM
47	070825-2-047	BP RL CHK	1	Aug/25/07	2:02:27 PM
48	070825-2-048	IQH1637-02	1	Aug/25/07	2:10:30 PM
49	070825-2-049	7H24113-BLK1	1	Aug/25/07	2:14:21 PM
50	070825-2-050	7H24113-BS1	1	Aug/25/07	2:18:13 PM
51	070825-2-051	IQH1647-01	1	Aug/25/07	2:22:05 PM
52	070825-2-052	7H24113-MS1	1	Aug/25/07	2:25:58 PM
53	070825-2-053	7H24113-MSD1	1	Aug/25/07	2:29:50 PM
54	070825-2-054	IQH1880-01	1	Aug/25/07	2:33:39 PM
55	070825-2-055	IQH1880-02	1	Aug/25/07	2:37:30 PM
56	070825-2-056	IQH1880-03	1	Aug/25/07	2:41:20 PM
57	070825-2-057	IQH1880-01	1	Aug/25/07	2:45:12 PM
58	070825-2-058	CCV	1	Aug/25/07	2:49:04 PM
59	070825-2-059	CCB	1	Aug/25/07	2:52:57 PM
60	070825-2-060	7H24113-BS1	1	Aug/25/07	2:58:47 PM
61	070825-2-061	IQH1880-02	1	Aug/25/07	3:02:38 PM
62	070825-2-062	IQH1880-03	1	Aug/25/07	3:06:31 PM
63	070825-2-063	7H25030-BLK1	1	Aug/25/07	3:10:22 PM

64	070825-2-064	7H25030-BS1	1	Aug/25/07	3:14:13 PM
65	070825-2-065	IQH1985-10	1	Aug/25/07	3:18:04 PM
66	070825-2-066	7H25030-MS1	1	Aug/25/07	3:21:55 PM
67	070825-2-067	7H25030-MSD1	1	Aug/25/07	3:25:46 PM
68	070825-2-068	IQH1636-01	1	Aug/25/07	3:29:38 PM
69	070825-2-069	IQH1989-01	1	Aug/25/07	3:33:30 PM
70	070825-2-070	CCV	1	Aug/25/07	3:37:22 PM
71	070825-2-071	CCB	1	Aug/25/07	3:41:16 PM
72	070825-2-072	IQH1984-01	1	Aug/25/07	3:45:09 PM
73	070825-2-073	IQH1984-02	1	Aug/25/07	3:49:01 PM
74	070825-2-074	IQH1985-06	1	Aug/25/07	3:52:55 PM
75	070825-2-075	IQH1985-07	1	Aug/25/07	3:56:49 PM
76	070825-2-076	IQH1985-08	1	Aug/25/07	4:00:43 PM
77	070825-2-077	IQH1985-09	1	Aug/25/07	4:04:35 PM
78	070825-2-078	7H24140-BLK1	1	Aug/25/07	4:08:26 PM
79	070825-2-079	7H24140-BS1	1	Aug/25/07	4:12:17 PM
80	070825-2-080	IQH2290-08	1	Aug/25/07	4:16:09 PM
81	070825-2-081	7H24140-MS1	1	Aug/25/07	4:20:01 PM
82	070825-2-082	CCV	1	Aug/25/07	4:23:53 PM
83	070825-2-083	CCB	1	Aug/25/07	4:27:46 PM
84	070825-2-084	7H24140-MSD1	1	Aug/25/07	4:31:39 PM
85	070825-2-085	IQH2288-01	1	Aug/25/07	4:35:32 PM
86	070825-2-086	7H24140-MS2	1	Aug/25/07	4:39:25 PM
87	070825-2-087	IQH1487-04	1	Aug/25/07	4:43:19 PM
88	070825-2-088	IQH2290-07	1	Aug/25/07	4:47:12 PM
89	070825-2-089	IQH2290-06	1	Aug/25/07	4:51:06 PM
90	070825-2-090	IQH2290-05	1	Aug/25/07	4:55:00 PM
91	070825-2-091	IQH2290-04	1	Aug/25/07	4:58:55 PM
92	070825-2-092	IQH2290-03	1	Aug/25/07	5:02:48 PM
93	070825-2-093	IQH2290-02	1	Aug/25/07	5:06:39 PM
94	070825-2-094	CCV	1	Aug/25/07	5:10:32 PM
95	070825-2-095	CCB	1	Aug/25/07	5:14:25 PM
96	070825-2-096	IQH2290-01	1	Aug/25/07	5:18:17 PM
97	070825-2-097	IQH2288-02	1	Aug/25/07	5:22:10 PM
98	070825-2-098	IQH2288-03	1	Aug/25/07	5:26:03 PM
99	070825-2-099	IQH2288-04	1	Aug/25/07	5:29:56 PM
100	070825-2-100	IQH2288-05	1	Aug/25/07	5:33:49 PM
101	070825-2-101	IQH2289-01	1	Aug/25/07	5:37:43 PM
102	070825-2-102	IQH2289-02	1	Aug/25/07	5:41:37 PM
103	070825-2-103	IQH2289-03	1	Aug/25/07	5:45:32 PM
104	070825-2-104	IQH2289-04	1	Aug/25/07	5:49:27 PM
105	070825-2-105	IQH2289-05	1	Aug/25/07	5:53:20 PM
106	070825-2-106	CCV	1	Aug/25/07	5:57:13 PM
107	070825-2-107	CCB	1	Aug/25/07	6:01:06 PM
108	070825-2-108	BP RL CHK	1	Aug/25/07	6:05:02 PM

METALS DIGESTION LOG (Solids)
Prep Method: (Circle One) 200.2 3050A 3050A (GF)

6020

Temp: 85°C
Analyst: CH
Dig Tube Lot:

4

	Client	Sample ID	Sample Size (g)	Test	Matrix	1:1 HNO3 (mL)	conc HNO3 (mL)	1:1 HCL (mL)	H2O2 Add (mL)	Final Vol. (mL)	Comments
	↳	Method Blank	2.00±.04	CAM	Soil	10	5	10	3	50	
		LCS 7080346	2.00								
1		IQH1759-01	2.00								KBP
		MS	2.00								
		SD	2.00								
2	98706	IQH1943-01	1.99								
3	1416491	IQH1956-01	1.99								KBP
4		-02	2.01								
5		-03	2.00								
6		IQH2096-01	2.00								
7		-02	2.00								
8		-03	1.99								
9		-04	1.99								
10		-05	2.01								
11		IQH2186-01	2.00								
12		-02	2.00								
13		-03	2.00								
14		-04	2.00								
15											
16											
17											
18											
19											
20											

A Spike ID#: 7080344
B Spike ID#: 7080345
Volume Spike Added LCS: A+B 1000µl
Volime Spike Added MS/SD: ↓

HCl ID#: 7070354
HNO3 ID#: 7070445
H2O2 ID#: 7070344

Date: 8/24/07
Batch: 7H24146

609

ICPMS
INITIAL CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070829-1

Labnumber: ICV-25PPB
Filename: 070829-1-018
Analyzed: Aug/29/07 10:34:03 AM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	25	24.462	98	90-110	
2	Antimony	25	22.985	92	90-110	
3	Arsenic	25	23.79	95	90-110	
4	Barium	25	25.223	101	90-110	
5	Beryllium	25	24.402	98	90-110	
6	Cadmium	25	25.128	101	90-110	
7	Cerium	25	25.731	103	90-110	
8	Chromium	25	25.552	102	90-110	
9	Cobalt	25	25.24	101	90-110	
10	Copper	25	25.075	100	90-110	
11	Copper[63]	25	25.193	101	90-110	
12	Iron	250	244.688	98	90-110	
13	Lead	25	24.945	100	90-110	
14	Manganese	25	25.459	102	90-110	
15	Molybdenum	25	25.225	101	90-110	
16	Nickel	25	24.918	100	90-110	
17	Selenium	25	25.402	102	90-110	
18	Silver	25	24.981	100	90-110	
19	Thallium	25	25.38	102	90-110	
20	Uranium	25	25.887	104	90-110	
21	Vanadium	25	25.339	101	90-110	
22	Zinc	25	26.008	104	90-110	

ICPMS
INITIAL CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	ICB	
Data File/Seq.#:	070829-1	Filename:	070829-1-019	
		Analyzed:	Aug/29/07	10:38:09 AM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	-0.155	
2	Antimony	2	0.131	
3	Arsenic	1	-0.47	
4	Barium	1	0.018	
5	Beryllium	0.5	-0.008	
6	Cadmium	1	0.002	
7	Cerium	1	0.001	
8	Chromium	2	-0.31	
9	Cobalt	1	0	
10	Copper	2	0.008	
11	Copper[63]	2	-0.001	
12	Iron	10	-0.67	
13	Lead	1	0.002	
14	Manganese	1	-0.028	
15	Molybdenum	2	0.009	
16	Nickel	2	0.001	
17	Selenium	2	-0.022	
18	Silver	1	0.003	
19	Thallium	1	0.05	
20	Uranium	1	0.033	
21	Vanadium	2	0.103	
22	Zinc	10	0.021	

(*) denotes greater than 0.5x MRL

ICPMS
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument: Elan
Data File/Seq.#: 070829-1

Labnumber: 0.2 PPB RL CHK
Filename: 070829-1-023
Analyzed: Aug/29/07 11:04:41 AM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum NT	0.2	0.973	486	50-150	*
2	Antimony	0.2	0.19	95	50-150	
3	Arsenic	0.2	0.083	42	50-150	*
4	Barium	0.2	0.18	90	50-150	
5	Beryllium	0.2	0.21	105	50-150	
6	Cadmium	0.2	0.199	100	50-150	
7	Cerium	0.2	0.215	108	50-150	
8	Chromium	0.2	0.248	124	50-150	
9	Cobalt	0.2	0.21	105	50-150	
10	Copper	0.2	0.184	92	50-150	
11	Copper[63]	0.2	0.186	93	50-150	
12	Iron NT	2.0	3.597	180	50-150	*
13	Lead	0.2	0.198	99	50-150	
14	Manganese	0.2	0.187	93	50-150	
15	Molybdenum	0.2	0.186	93	50-150	
16	Nickel	0.2	0.186	93	50-150	
17	Selenium	0.2	0.271	136	50-150	
18	Silver	0.2	0.202	101	50-150	
19	Thallium	0.2	0.198	99	50-150	
20	Uranium	0.2	0.207	103	50-150	
21	Vanadium	0.2	0.348	174	50-150	*
22	Zinc	0.2	-0.48	-240	50-150	*

0.2 mg/L < MDL for As, V, Zn

ICPMS
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument: Elan
Data File/Seq.#: 070829-1

Labnumber: 2.0 PPB RL CHK
Filename: 070829-1-024
Analyzed: Aug/29/07 11:08:31 AM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	2	2.958	148	50-150	
2	Antimony	2	2.004	100	50-150	
3	Arsenic	2	2.008	100	50-150	
4	Barium	2	1.976	99	50-150	
5	Beryllium	2	2.136	107	50-150	
6	Cadmium	2	2.035	102	50-150	
7	Cerium	2	2.132	107	50-150	
8	Chromium	2	2.37	119	50-150	
9	Cobalt	2	2.213	111	50-150	
10	Copper	2	2.203	110	50-150	
11	Copper[63]	2	2.178	109	50-150	
12	Iron	20	23.769	119	50-150	
13	Lead	2	2.086	104	50-150	
14	Manganese	2	2.26	113	50-150	
15	Molybdenum	2	1.981	99	50-150	
16	Nickel	2	2.159	108	50-150	
17	Selenium	2	1.928	96	50-150	
18	Silver	2	2.098	105	50-150	
19	Thallium	2	2.072	104	50-150	
20	Uranium	2	2.184	109	50-150	
21	Vanadium	2	1.826	91	50-150	
22	Zinc	2	1.549	77	50-150	

ICPMS
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070829-1

Labnumber: CCV
Filename: 070829-1-035
Analyzed: Aug/29/07 11:51:32 AM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	50	52.185	104	90-110	
2	Antimony	50	53.386	107	90-110	
3	Arsenic	50	49.795	100	90-110	
4	Barium	50	52.54	105	90-110	
5	Beryllium	50	52.928	106	90-110	
6	Cadmium	50	53.714	107	90-110	
7	Cerium	50	51.935	104	90-110	
8	Chromium	50	49.748	99	90-110	
9	Cobalt	50	50.165	100	90-110	
10	Copper	50	49.821	100	90-110	
11	Copper[63]	50	49.747	99	90-110	
12	Iron	500	501.954	100	90-110	
13	Lead	50	52.231	104	90-110	
14	Manganese	50	50.731	101	90-110	
15	Molybdenum	50	50.838	102	90-110	
16	Nickel	50	49.902	100	90-110	
17	Selenium	50	52.019	104	90-110	
18	Silver	50	52.941	106	90-110	
19	Thallium	50	52.825	106	90-110	
20	Uranium	50	54.392	109	90-110	
21	Vanadium	50	50.395	101	90-110	
22	Zinc	50	51.108	102	90-110	

ICPMS
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	CCB	
Data File/Seq.#:	070829-1	Filename:	070829-1-036	
		Analyzed:	Aug/29/07	11:55:26 AM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	-0.401	
2	Antimony	2	0.01	
3	Arsenic	1	-0.662	*
4	Barium	1	-0.001	
5	Beryllium	0.5	-0.007	
6	Cadmium	1	0	
7	Cerium	1	0.001	
8	Chromium	2	-0.546	
9	Cobalt	1	-0.001	
10	Copper	2	-0.011	
11	Copper[63]	2	-0.01	
12	Iron	10	-3.387	
13	Lead	1	0	
14	Manganese	1	-0.049	
15	Molybdenum	2	0.019	
16	Nickel	2	-0.012	
17	Selenium	2	0.075	
18	Silver	1	0.002	
19	Thallium	1	0.061	
20	Uranium	1	0.04	
21	Vanadium	2	-0.066	
22	Zinc	10	-0.534	

< MDL x 2

(*) denotes greater than 0.5x MRL

ICPMS
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070829-1

Labnumber: CCV
Filename: 070829-1-049
Analyzed: Aug/29/07 12:47:27 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	50	50.946	102	90-110	
2	Antimony	50	52.691	105	90-110	
3	Arsenic	50	49.593	99	90-110	
4	Barium	50	51.749	103	90-110	
5	Beryllium	50	51.949	104	90-110	
6	Cadmium	50	52.652	105	90-110	
7	Cerium	50	52.252	105	90-110	
8	Chromium	50	49.935	100	90-110	
9	Cobalt	50	50.035	100	90-110	
10	Copper	50	50.149	100	90-110	
11	Copper[63]	50	50.168	100	90-110	
12	Iron	500	500.183	100	90-110	
13	Lead	50	51.667	103	90-110	
14	Manganese	50	50.414	101	90-110	
15	Molybdenum	50	50.396	101	90-110	
16	Nickel	50	49.97	100	90-110	
17	Selenium	50	51.293	103	90-110	
18	Silver	50	52.221	104	90-110	
19	Thallium	50	52.67	105	90-110	
20	Uranium	50	53.792	108	90-110	
21	Vanadium	50	51.109	102	90-110	
22	Zinc	50	51.014	102	90-110	

ICPMS
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	CCB	
Data File/Seq.#:	070829-1	Filename:	070829-1-050	
		Analyzed:	Aug/29/07	12:51:20 PM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	-0.361	
2	Antimony	2	0.007	
3	Arsenic	1	-0.702	*
4	Barium	1	0.001	
5	Beryllium	0.5	-0.001	
6	Cadmium	1	0.001	
7	Cerium	1	0.001	
8	Chromium	2	-0.582	
9	Cobalt	1	-0.001	
10	Copper	2	-0.011	
11	Copper[63]	2	-0.01	
12	Iron	10	-2.431	
13	Lead	1	0.001	
14	Manganese	1	-0.05	
15	Molybdenum	2	0.02	
16	Nickel	2	0.004	
17	Selenium	2	-0.001	
18	Silver	1	0.004	
19	Thallium	1	0.059	
20	Uranium	1	0.039	
21	Vanadium	2	-0.244	
22	Zinc	10	-0.525	

< MDL + 2

(*) denotes greater than 0.5x MRL

ICPMS
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070829-1

Labnumber: CCV
Filename: 070829-1-062
Analyzed: Aug/29/07 1:38:00 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	50	50.526	101	90-110	
2	Antimony	50	54.046	108	90-110	
3	Arsenic	50	48.589	97	90-110	
4	Barium	50	53.88	108	90-110	
5	Beryllium	50	51.745	103	90-110	
6	Cadmium	50	54.808	110	90-110	
7	Cerium	50	51.916	104	90-110	
8	Chromium	50	49.1	98	90-110	
9	Cobalt	50	50.198	100	90-110	
10	Copper	50	49.505	99	90-110	
11	Copper[63]	50	49.364	99	90-110	
12	Iron	500	493.409	99	90-110	
13	Lead	50	52.228	104	90-110	
14	Manganese	50	49.963	100	90-110	
15	Molybdenum	50	50.929	102	90-110	
16	Nickel	50	49.407	99	90-110	
17	Selenium	50	52.985	106	90-110	
18	Silver	50	53.822	108	90-110	
19	Thallium	50	52.623	105	90-110	
20	Uranium	50	54.943	110	90-110	
21	Vanadium	50	49.709	99	90-110	
22	Zinc	50	50.847	102	90-110	

ICPMS
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	CCB
Data File/Seq.#:	070829-1	Filename:	070829-1-064
		Analyzed:	Aug/29/07 1:48:16 PM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	-0.371	
2	Antimony	2	-0.02	
3	Arsenic	1	-1.069	*
4	Barium	1	-0.003	
5	Beryllium	0.5	0	
6	Cadmium	1	0	
7	Cerium	1	0	
8	Chromium	2	-0.541	
9	Cobalt	1	-0.001	
10	Copper	2	-0.011	
11	Copper[63]	2	-0.015	
12	Iron	10	-4.243	
13	Lead	1	-0.001	
14	Manganese	1	-0.053	
15	Molybdenum	2	-0.047	
16	Nickel	2	0.003	
17	Selenium	2	0.133	
18	Silver	1	0	
19	Thallium	1	0.006	
20	Uranium	1	0.003	
21	Vanadium	2	-0.152	
22	Zinc	10	1.519	

< MDL x 2

(*) denotes greater than 0.5x MRL

ICPMS
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument:	Elan	Labnumber:	2.0 PPB RL CHK
Data File/Seq.#:	070829-1	Filename:	070829-1-065
		Analyzed:	Aug/29/07 1:53:51 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	2	2.098	105	50-150	
2	Antimony	2	2.177	109	50-150	
3	Arsenic	2	0.78	39	50-150	*
4	Barium	2	2.138	107	50-150	
5	Beryllium	2	1.981	99	50-150	
6	Cadmium	2	2.219	111	50-150	
7	Cerium	2	2.201	110	50-150	
8	Chromium	2	1.415	71	50-150	
9	Cobalt	2	2.069	103	50-150	
10	Copper	2	2.007	100	50-150	
11	Copper[63]	2	2.027	101	50-150	
12	Iron	20	16.743	84	50-150	
13	Lead	2	2.135	107	50-150	
14	Manganese	2	2.216	111	50-150	
15	Molybdenum	2	1.994	100	50-150	
16	Nickel	2	2.049	102	50-150	
17	Selenium	2	2.053	103	50-150	
18	Silver	2	2.185	109	50-150	
19	Thallium	2	2.151	108	50-150	
20	Uranium	2	2.309	115	50-150	
21	Vanadium	2	1.789	89	50-150	
22	Zinc	2	2.541	127	50-150	

J/UJ As up to ~~8~~ 10 mg/kg in 2,3,4,5-16

Method 6020/200.8 - Summary Report

Sample ID: ICSA
Sample Date/Time: Wednesday, August 29, 2007 10:48:38
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\working methods\050628.mth
Dataset File: c:\elandata\dataset\default\0708daset\070829-1\ICSA.020

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	65.667	3.667	0.19430	5.95	ug/L
	Al	27	440055711.526	4599.453	78038.30868	4.06	ug/L
	V	51	1998.335	-3269.517	0.50955	28.23	ug/L
	Cr	52	27270.951	18985.800	0.64489	14.35	ug/L
	Mn	55	38708.096	1143.728	2.89360	2.30	ug/L
	Co	59	4632.131	51.001	0.41924	3.10	ug/L
	Ni	60	4296.639	103.342	1.70049	8.64	ug/L
	Cu	63	13263.622	168.669	2.37281	1.19	ug/L
	Cu	65	6640.611	134.669	2.38304	2.80	ug/L
	Zn	66	14851.535	1340.743	8.79916	1.70	ug/L
>	Ge	72	112837.720	100924.950			mg/L
	As	75	8972.299	8825.086	-0.54986	7.56	ug/L
	Se	82	232.840	63.970	1.07395	8.28	ug/L
	Kr	84	299.883	254.165			mg/L
	Mo	98	6850988.187	270.638	1828.12407	0.70	ug/L
	Ag	107	1683.783	17.667	0.23233	1.97	ug/L
	Cd	114	14236.863	10.310	3.62762	3.53	ug/L
	Sb	121	2225.529	171.336	0.40202	5.23	ug/L
	Ba	135	1331.742	60.334	0.90086	1.53	ug/L
>	Tb	159	730703.339	768162.644			ug/L
	Tl	205	4525.429	75.334	0.36960	2.33	ug/L
	Pb	208	15641.848	139.002	0.89182	1.97	ug/L
	U	238	1076.051	52.334	0.05379	2.46	ug/L
	Na	23	S	30970.380	S	S	mg/L
	Mg	24	309649808.394	2968.338	106.14433	4.06	mg/L
	K	39	S	438433.625	S	S	mg/L
	Ca	44	23654909.000	17969.144	110.02937	1.14	mg/L
	Fe	54	58582970.358	30177.061	114700.47968	1.83	ug/L
>	Sc	45	358972.093	433087.701			mg/L
	Ce	140	5335.716	12.667	0.35893	1.92	ug/L
>	In	115	601203.110	689387.611			ug/L

low interferents in assoc. samples

Method 6020/200.8 - Summary Report

Sample ID: ICSAB

Sample Date/Time: Wednesday, August 29, 2007 10:53:42
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\working methods\050628.mth
Dataset File: c:\elandata\dataset\default\0708daset\070829-1\ICSAB.021

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	73.334	3.667	0.21964	11.57	ug/L
	Al	27	437908719.889	4599.453	77990.11236	1.75	ug/L
	V	51	174.970	-3269.517	0.34586	29.42	ug/L
	Cr	52	192792.298	18985.800	18.37608	2.28	ug/L
	Mn	55	273092.456	1143.728	21.10328	0.79	ug/L
	Co	59	188872.948	51.001	17.37392	0.52	ug/L
	Ni	60	42276.424	103.342	17.23607	0.47	ug/L
	Cu	63	90842.496	168.669	16.52476	0.52	ug/L
	Cu	65	42833.214	134.669	15.74520	1.23	ug/L
	Zn	66	34255.697	1340.743	21.68957	0.38	ug/L
>	Ge	72	112340.444	100924.950			mg/L
	As	75	36422.224	8825.086	16.43474	1.69	ug/L
	Se	82	229.602	63.970	1.05991	20.60	ug/L
	Kr	84	324.168	254.165			mg/L
	Mo	98	6838334.239	270.638	1832.87187	1.28	ug/L
	Ag	107	119229.673	17.667	16.71670	0.78	ug/L
	Cd	114	78813.248	10.310	20.18936	1.01	ug/L
	Sb	121	2118.845	171.336	0.38298	1.87	ug/L
	Ba	135	1380.080	60.334	0.93955	0.95	ug/L
>	Tb	159	724086.722	768162.644			ug/L
	Tl	205	4393.386	75.334	0.36193	1.93	ug/L
	Pb	208	15432.106	139.002	0.88792	1.13	ug/L
	U	238	1004.712	52.334	0.05054	4.07	ug/L
	Na	23	S	30970.380	S	S	mg/L
	Mg	24	310060554.251	2968.338	106.66137	1.10	mg/L
	K	39	S	438433.625	S	S	mg/L
	Ca	44	23676833.295	17969.144	110.52761	0.39	mg/L
	Fe	54	59142353.389	30177.061	116205.38101	0.66	ug/L
>	Sc	45	357648.879	433087.701			mg/L
	Ce	140	5214.671	12.667	0.35536	1.39	ug/L
>	In	115	593345.003	689387.611			ug/L

RUN LOG

Intrument: *Elan*

Calib.file #: 070829-1 Calib. date: 8/29/2007

#	File_Name	Lab_Number	Dilution	Analyzed	Time
1	070829-1-001	Blank	1	Aug/29/07	8:44:03 AM
2	070829-1-002	Blank	1	Aug/29/07	8:58:01 AM
3	070829-1-003	Standard 1	1	Aug/29/07	9:03:05 AM
4	070829-1-004	Standard 2	1	Aug/29/07	9:09:10 AM
5	070829-1-005	Standard 3	1	Aug/29/07	9:15:16 AM
6	070829-1-006	ICV-25PPB	1	Aug/29/07	9:22:03 AM
7	070829-1-007	ICB	1	Aug/29/07	9:26:09 AM
8	070829-1-008	ICV-25PPB	1	Aug/29/07	9:38:11 AM
9	070829-1-009	ICB	1	Aug/29/07	9:42:17 AM
10	070829-1-010	ICSA	1	Aug/29/07	9:47:21 AM
11	070829-1-011	ICSAB	1	Aug/29/07	9:52:25 AM
12	070829-1-012	ICSA	1	Aug/29/07	9:57:30 AM
13	070829-1-013	RINSE	1	Aug/29/07	10:04:24 AM
14	070829-1-014	Blank	1	Aug/29/07	10:10:01 AM
15	070829-1-015	Standard 1	1	Aug/29/07	10:15:05 AM
16	070829-1-016	Standard 2	1	Aug/29/07	10:21:10 AM
17	070829-1-017	Standard 3	1	Aug/29/07	10:27:16 AM
18	070829-1-018	ICV-25PPB	1	Aug/29/07	10:34:03 AM
19	070829-1-019	ICB	1	Aug/29/07	10:38:09 AM
20	070829-1-020	ICSA	1	Aug/29/07	10:48:38 AM
21	070829-1-021	ICSAB	1	Aug/29/07	10:53:42 AM
22	070829-1-022	RINSE	1	Aug/29/07	10:58:47 AM
23	070829-1-023	0.2 PPB RL CHK	1	Aug/29/07	11:04:41 AM
24	070829-1-024	2.0 PPB RL CHK	1	Aug/29/07	11:08:31 AM
25	070829-1-025	IQH1951-01	1	Aug/29/07	11:12:52 AM
26	070829-1-026	IQH2100-01	1	Aug/29/07	11:16:43 AM
27	070829-1-027	7H27126-BS1	1	Aug/29/07	11:20:34 AM
28	070829-1-028	7H28101-BLK1	1	Aug/29/07	11:24:26 AM
29	070829-1-029	7H28101-BS1	1	Aug/29/07	11:28:18 AM
30	070829-1-030	IQH1759-04	1	Aug/29/07	11:32:10 AM
31	070829-1-031	7H28101-MS1	1	Aug/29/07	11:36:01 AM
32	070829-1-032	7H28101-MSD1	1	Aug/29/07	11:39:54 AM
33	070829-1-033	7H28101-PS1	1	Aug/29/07	11:43:47 AM
34	070829-1-034	IQH1759-02	1	Aug/29/07	11:47:40 AM
35	070829-1-035	CCV	1	Aug/29/07	11:51:32 AM
36	070829-1-036	CCB	1	Aug/29/07	11:55:26 AM
37	070829-1-037	BP RL CHK	1	Aug/29/07	11:59:57 AM
38	070829-1-038	IQH2204-01	1	Aug/29/07	12:04:50 PM
39	070829-1-039	7H27126-MS1	1	Aug/29/07	12:08:42 PM
40	070829-1-040	7H27126-MSD1	1	Aug/29/07	12:12:35 PM
41	070829-1-041	IQH1759-03	1	Aug/29/07	12:16:28 PM
42	070829-1-042	IQH1759-05	1	Aug/29/07	12:20:22 PM
43	070829-1-043	IQH1759-06	1	Aug/29/07	12:24:16 PM
44	070829-1-044	IQH1759-07	1	Aug/29/07	12:28:09 PM
45	070829-1-045	IQH1759-08	1	Aug/29/07	12:31:59 PM
46	070829-1-046	IQH1759-09	1	Aug/29/07	12:35:50 PM
47	070829-1-047	IQH1759-10	1	Aug/29/07	12:39:42 PM
48	070829-1-048	IQH1759-11	1	Aug/29/07	12:43:34 PM
49	070829-1-049	CCV	1	Aug/29/07	12:47:27 PM
50	070829-1-050	CCB	1	Aug/29/07	12:51:20 PM
51	070829-1-051	BP RL CHK	1	Aug/29/07	12:55:16 PM
52	070829-1-052	IQH2204-02	1	Aug/29/07	12:59:12 PM
53	070829-1-053	IQH2204-03	1	Aug/29/07	1:03:04 PM
54	070829-1-054	IQH2204-04	1	Aug/29/07	1:06:54 PM
55	070829-1-055	IQH1759-12	1	Aug/29/07	1:10:45 PM
56	070829-1-056	IQH1759-13	1	Aug/29/07	1:14:38 PM
57	070829-1-057	IQH1759-14	1	Aug/29/07	1:18:31 PM
58	070829-1-058	IQH1759-15	1	Aug/29/07	1:22:24 PM
59	070829-1-059	IQH1759-16	1	Aug/29/07	1:26:18 PM
60	070829-1-060	IQH2403-01	1	Aug/29/07	1:30:12 PM
61	070829-1-061	IQH2403-02	1	Aug/29/07	1:34:07 PM
62	070829-1-062	CCV	1	Aug/29/07	1:38:00 PM
63	070829-1-063	CCB	1	Aug/29/07	1:41:53 PM

64	070829-1-064	CCB	1	Aug/29/07	1:48:16 PM
65	070829-1-065	BP RL CHK	1	Aug/29/07	1:53:51 PM

METALS DIGESTION LOG (Solids)
Prep Method: (Circle One) 200.2 3050A 3050A (GF)

6020

Temp: 85°C
Analyst: CH
Dig Tube Lot:

	Client	Sample ID	Sample Size (g)	Test	Matrix	1:1 HNO3 (mL)	conc HNO3 (mL)	1:1 HCL (mL)	H2O2 Add (mL)	Final Vol. (mL)	Comments
		Method Blank	2.00±.04	CA19	Soil	10	5	10	3	50	
		LCS 7080346	2.00								
1		IQH1759-04	2.00								
		MS	2.00								
		SD	2.00								
2		-02	2.00								
3		-03	2.01								
4		-05	2.01								
5		-06	1.99								
6		-07	2.00								
7		-08	1.99								
8		-09	2.01								
9		-10	2.01								
10		-11	1.99								
11		-12	2.00								
12		-13	2.01								
13		-14	2.01								
14		-15	2.01								
15		-16	1.99								
16	1416491	IQH2403-01	2.00								
17		-02	2.00								
18		-03	1.99								
19		-04	2.00								
20		IQH2402-01	2.00								

A Spike ID#: 7080344
B Spike ID#: 7080345
Volume Spike Added LCS: A+B 1000µl
Volume Spike Added MS/SD: 2

HCl ID#: 7070354
HNO3 ID#: 7070445
H2O2 ID#: 7070344

Date: 8/28/07
Batch: 7H28101

ICPMS
INITIAL CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070829-2

Labnumber: ICV-25PPB
Filename: 070829-2-005
Analyzed: Aug/29/07 2:23:09 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	25	24.656	99	90-110	
2	Antimony	25	23.549	94	90-110	
3	Arsenic	25	24.483	98	90-110	
4	Barium	25	25.489	102	90-110	
5	Beryllium	25	24.298	97	90-110	
6	Cadmium	25	25.828	103	90-110	
7	Cerium	25	24.088	96	90-110	
8	Chromium	25	25.758	103	90-110	
9	Cobalt	25	25.588	102	90-110	
10	Copper	25	25.046	100	90-110	
11	Copper[63]	25	25.115	100	90-110	
12	Iron	250	251.106	100	90-110	
13	Lead	25	25.066	100	90-110	
14	Manganese	25	26.165	105	90-110	
15	Molybdenum	25	25.493	102	90-110	
16	Nickel	25	24.743	99	90-110	
17	Selenium	25	25.502	102	90-110	
18	Silver	25	25.459	102	90-110	
19	Thallium	25	25.754	103	90-110	
20	Uranium	25	24.463	98	90-110	
21	Vanadium	25	25.197	101	90-110	
22	Zinc	25	25.747	103	90-110	

ICPMS
INITIAL CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	ICB	
Data File/Seq.#:	070829-2	Filename:	070829-2-006	
		Analyzed:	Aug/29/07	2:27:15 PM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	0.043	
2	Antimony	2	0.119	
3	Arsenic	1	0.182	
4	Barium	1	0.005	
5	Beryllium	0.5	0.001	
6	Cadmium	1	0	
7	Cerium	1	0.001	
8	Chromium	2	0.03	
9	Cobalt	1	0	
10	Copper	2	0.002	
11	Copper[63]	2	0	
12	Iron	10	0.755	
13	Lead	1	0.002	
14	Manganese	1	0.002	
15	Molybdenum	2	0.055	
16	Nickel	2	0.001	
17	Selenium	2	0.094	
18	Silver	1	0.001	
19	Thallium	1	0.045	
20	Uranium	1	0.023	
21	Vanadium	2	0.124	
22	Zinc	10	-0.006	

(*) denotes greater than 0.5x MRL

ICPMS
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument:	Elan	Labnumber:	0.2 PPB RL CHK
Data File/Seq.#:	070829-2	Filename:	070829-2-010
		Analyzed:	Aug/29/07 2:53:19 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum NT	0.2	0.677	339	50-150	*
2	Antimony	0.2	0.199	100	50-150	
3	Arsenic	0.2	0.623	311	50-150	*
4	Barium	0.2	0.186	93	50-150	
5	Beryllium	0.2	0.21	105	50-150	
6	Cadmium	0.2	0.201	101	50-150	
7	Cerium	0.2	0.206	103	50-150	
8	Chromium	0.2	0.366	183	50-150	*
9	Cobalt	0.2	0.214	107	50-150	
10	Copper	0.2	0.212	106	50-150	
11	Copper[63]	0.2	0.213	107	50-150	
12	Iron NT	2.0	3.743	187	50-150	*
13	Lead	0.2	0.203	102	50-150	
14	Manganese NT	0.2	0.408	204	50-150	*
15	Molybdenum	0.2	0.249	124	50-150	
16	Nickel	0.2	0.236	118	50-150	
17	Selenium	0.2	0.307	154	50-150	*
18	Silver	0.2	0.21	105	50-150	
19	Thallium	0.2	0.195	98	50-150	
20	Uranium	0.2	0.205	103	50-150	
21	Vanadium	0.2	0.061	30	50-150	*
22	Zinc	0.2	0.61	305	50-150	*

0.2 ug/L < MDL for As, Cr, Se, V, Zn

ICPMS
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument:	Elan	Labnumber:	2.0 PPB RL CHK
Data File/Seq.#:	070829-2	Filename:	070829-2-011
		Analyzed:	Aug/29/07 2:57:09 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	2	2.33	117	50-150	
2	Antimony	2	2.058	103	50-150	
3	Arsenic	2	2.438	122	50-150	
4	Barium	2	2.034	102	50-150	
5	Beryllium	2	2.069	103	50-150	
6	Cadmium	2	2.083	104	50-150	
7	Cerium	2	2.058	103	50-150	
8	Chromium	2	2.309	115	50-150	
9	Cobalt	2	2.187	109	50-150	
10	Copper	2	2.163	108	50-150	
11	Copper[63]	2	2.176	109	50-150	
12	Iron	20	23.027	115	50-150	
13	Lead	2	2.08	104	50-150	
14	Manganese	2	2.367	118	50-150	
15	Molybdenum	2	2.045	102	50-150	
16	Nickel	2	2.137	107	50-150	
17	Selenium	2	2.139	107	50-150	
18	Silver	2	2.081	104	50-150	
19	Thallium	2	2.093	105	50-150	
20	Uranium	2	2.083	104	50-150	
21	Vanadium	2	1.813	91	50-150	
22	Zinc	2	2.609	130	50-150	

ICPMS
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070829-2

Labnumber: CCV
Filename: 070829-2-022
Analyzed: Aug/29/07 3:39:51 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	50	48.836	98	90-110	
2	Antimony	50	49.271	99	90-110	
3	Arsenic	50	50.586	101	90-110	
4	Barium	50	49.921	100	90-110	
5	Beryllium	50	46.44	93	90-110	
6	Cadmium	50	49.011	98	90-110	
7	Cerium	50	50.053	100	90-110	
8	Chromium	50	51.824	104	90-110	
9	Cobalt	50	52.715	105	90-110	
10	Copper	50	52.771	106	90-110	
11	Copper[63]	50	53.112	106	90-110	
12	Iron	500	529.815	106	90-110	
13	Lead	50	50.83	102	90-110	
14	Manganese	50	52.063	104	90-110	
15	Molybdenum	50	50.064	100	90-110	
16	Nickel	50	52.158	104	90-110	
17	Selenium	50	49.117	98	90-110	
18	Silver	50	50.612	101	90-110	
19	Thallium	50	51.251	103	90-110	
20	Uranium	50	48.418	97	90-110	
21	Vanadium	50	51.23	102	90-110	
22	Zinc	50	50.986	102	90-110	

ICPMS
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	CCB	
Data File/Seq.#:	070829-2	Filename:	070829-2-023	
		Analyzed:	Aug/29/07	3:43:44 PM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	-0.191	
2	Antimony	2	0.02	
3	Arsenic	1	0.5	
4	Barium	1	0.006	
5	Beryllium	0.5	-0.004	
6	Cadmium	1	0.001	
7	Cerium	1	0.002	
8	Chromium	2	0.103	
9	Cobalt	1	0.001	
10	Copper	2	-0.006	
11	Copper[63]	2	-0.008	
12	Iron	10	2.523	
13	Lead	1	0	
14	Manganese	1	-0.011	
15	Molybdenum	2	0.067	
16	Nickel	2	0.002	
17	Selenium	2	0.048	
18	Silver	1	0.003	
19	Thallium	1	0.054	
20	Uranium	1	0.033	
21	Vanadium	2	0.248	
22	Zinc	10	1.299	

(*) denotes greater than 0.5x MRL

ICPMS
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument: Elan
Data File/Seq.#: 070829-2

Labnumber: 2.0 PPB RL CHK
Filename: 070829-2-085
Analyzed: Aug/29/07 8:07:27 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	2	3.3	165	50-150	*
2	Antimony	2	2.334	117	50-150	
3	Arsenic	2	2.305	115	50-150	
4	Barium	2	2.332	117	50-150	
5	Beryllium	2	2.024	101	50-150	
6	Cadmium	2	2.378	119	50-150	
7	Cerium	2	2.146	107	50-150	
8	Chromium	2	1.941	97	50-150	
9	Cobalt	2	2.138	107	50-150	
10	Copper	2	2.086	104	50-150	
11	Copper[63]	2	2.133	107	50-150	
12	Iron	20	23.047	115	50-150	
13	Lead	2	2.163	108	50-150	
14	Manganese	2	2.359	118	50-150	
15	Molybdenum	2	2.211	111	50-150	
16	Nickel	2	2.026	101	50-150	
17	Selenium	2	2.163	108	50-150	
18	Silver	2	2.339	117	50-150	
19	Thallium	2	2.106	105	50-150	
20	Uranium	2	2.154	108	50-150	
21	Vanadium	2	2.35	118	50-150	
22	Zinc	2	2.52	126	50-150	

Method 6020/200.8 - Summary Report

Sample ID: ICSA

Sample Date/Time: Wednesday, August 29, 2007 14:38:25
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\working methods\050628.mth
Dataset File: C:\elandata\Dataset\Default\0708DASET\070829-2\ICSA.007

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	72.668	3.000	0.20851	13.33	ug/L
	Al	27	419718247.266	4137.307	69728.90498	1.22	ug/L
	V	51	709.331	-5510.307	0.58803	19.77	ug/L
	Cr	52	38740.621	15642.389	2.28093	8.15	ug/L
	Mn	55	38494.528	734.026	2.90853	1.24	ug/L
	Co	59	4754.506	46.334	0.43236	1.22	ug/L
	Ni	60	6080.152	104.746	2.44608	1.62	ug/L
	Cu	63	13997.330	155.336	2.57100	1.58	ug/L
	Cu	65	7011.791	124.668	2.56601	0.21	ug/L
	Zn	66	15156.521	1426.419	8.78485	0.63	ug/L
>	Ge	72	116165.584	106430.725			mg/L
	As	75	7655.815	7322.959	-0.20048	34.27	ug/L
	Se	82	264.749	65.823	1.20348	7.25	ug/L
	Kr	84	279.975	217.468			mg/L
	Mo	98	6920035.126	114.671	1761.29060	0.86	ug/L
	Ag	107	1725.455	16.334	0.22149	0.58	ug/L
	Cd	114	17900.669	9.816	4.12678	0.69	ug/L
	Sb	121	2088.507	105.668	0.35510	1.95	ug/L
	Ba	135	1425.752	58.001	0.88864	3.37	ug/L
>	Tb	159	788968.929	881675.449			ug/L
	Tl	205	4936.569	205.004	0.36212	1.39	ug/L
	Pb	208	17205.247	157.335	0.89330	0.18	ug/L
	U	238	1175.060	104.001	0.04748	2.15	ug/L
	Na	23	457136647.026	31407.981	102.07945	0.77	mg/L
	Mg	24	310439313.258	2934.331	106.50509	0.42	mg/L
	K	39	S	467079.541	S	S	mg/L
	Ca	44	22817007.414	10662.424	110.55466	1.46	mg/L
	Fe	54	57763094.586	28827.724	121850.70548	1.99	ug/L
>	Sc	45	346304.317	451661.660			mg/L
	Ce	140	5555.136	17.334	0.33849	1.18	ug/L
>	In	115	632236.867	771465.400			ug/L

low interferents in assoc. samples

Method 6020/200.8 - Summary Report

Sample ID: ICSAB

Sample Date/Time: Wednesday, August 29, 2007 14:43:29
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\working methods\050628.mth
Dataset File: C:\elandata\Dataset\Default\0708DASET\070829-2\ICSAB.008

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	66.001	3.000	0.18905	15.11	ug/L
	Al	27	417908444.247	4137.307	69717.27272	1.56	ug/L
	V	51	386.750	-5510.307	0.55708	65.58	ug/L
	Cr	52	198130.201	15642.389	19.15955	2.97	ug/L
	Mn	55	271591.080	734.026	20.98941	2.86	ug/L
	Co	59	183363.516	46.334	16.92688	3.38	ug/L
	Ni	60	42905.138	104.746	17.62431	2.99	ug/L
	Cu	63	86785.016	155.336	16.17704	2.65	ug/L
	Cu	65	41283.990	124.668	15.41964	0.86	ug/L
	Zn	66	33639.571	1426.419	20.81277	0.73	ug/L
>	Ge	72	115705.349	106430.725			mg/L
	As	75	36062.186	7322.959	16.80585	1.33	ug/L
	Se	82	263.804	65.823	1.20682	12.17	ug/L
	Kr	84	265.554	217.468			mg/L
	Mo	98	7020222.183	114.671	1794.30958	1.33	ug/L
	Ag	107	123842.778	16.334	16.12800	1.33	ug/L
	Cd	114	86946.498	9.816	20.14122	2.55	ug/L
	Sb	121	2058.169	105.668	0.35112	1.29	ug/L
	Ba	135	1365.412	58.001	0.85345	4.51	ug/L
>	Tb	159	784438.172	881675.449			ug/L
	Tl	205	4873.547	205.004	0.35951	1.03	ug/L
	Pb	208	17082.532	157.335	0.89207	0.81	ug/L
	U	238	1124.722	104.001	0.04555	2.94	ug/L
	Na	23	S	31407.981	S	S	mg/L
	Mg	24	311748046.510	2934.331	107.45151	2.24	mg/L
	K	39	S	467079.541	S	S	mg/L
	Ca	44	23147136.704	10662.424	112.65591	0.78	mg/L
	Fe	54	58461895.749	28827.724	123908.66972	0.87	ug/L
>	Sc	45	344772.581	451661.660			mg/L
	Ce	140	5478.105	17.334	0.33369	1.52	ug/L
>	In	115	632397.900	771465.400			ug/L

RUN LOG

Intrument: *Elan*

Calib.file #: 090829-2 Calib. date: 8/29/2007

#	File_Name	Lab_Number	Dilution	Analyzed	Time
1	070829-2-001	Blank	1	Aug/29/07	1:59:08 PM
2	070829-2-002	Standard 1	1	Aug/29/07	2:04:10 PM
3	070829-2-003	Standard 2	1	Aug/29/07	2:10:15 PM
4	070829-2-004	Standard 3	1	Aug/29/07	2:16:22 PM
5	070829-2-005	ICV-25PPB	1	Aug/29/07	2:23:09 PM
6	070829-2-006	ICB	1	Aug/29/07	2:27:15 PM
7	070829-2-007	ICSA	1	Aug/29/07	2:38:25 PM
8	070829-2-008	ICSAB	1	Aug/29/07	2:43:29 PM
9	070829-2-009	RINSE	1	Aug/29/07	2:48:33 PM
10	070829-2-010	0.2 PPB RL CHK	1	Aug/29/07	2:53:19 PM
11	070829-2-011	2.0 PPB RL CHK	1	Aug/29/07	2:57:09 PM
12	070829-2-012	IQH2403-01	1	Aug/29/07	3:01:02 PM
13	070829-2-013	IQH2403-02	1	Aug/29/07	3:04:56 PM
14	070829-2-014	IQH2403-03	1	Aug/29/07	3:08:49 PM
15	070829-2-015	IQH2403-04	1	Aug/29/07	3:12:41 PM
16	070829-2-016	IQH2402-01	1	Aug/29/07	3:16:33 PM
17	070829-2-017	IQH1759-12	1	Aug/29/07	3:20:25 PM
18	070829-2-018	IQH1759-13	1	Aug/29/07	3:24:18 PM
19	070829-2-019	IQH1759-14	1	Aug/29/07	3:28:10 PM
20	070829-2-020	IQH1759-15	1	Aug/29/07	3:32:04 PM
21	070829-2-021	IQH1759-16	1	Aug/29/07	3:35:57 PM
22	070829-2-022	CCV	1	Aug/29/07	3:39:51 PM
23	070829-2-023	CCB	1	Aug/29/07	3:43:44 PM
24	070829-2-024	BP RL CHK	1	Aug/29/07	3:47:40 PM
25	070829-2-025	7H27130-BLK1	1	Aug/29/07	3:51:33 PM
26	070829-2-026	7H27130-BS1	1	Aug/29/07	3:55:24 PM
27	070829-2-027	IQH1781-01	1	Aug/29/07	3:59:15 PM
28	070829-2-028	7H27130-MS1	1	Aug/29/07	4:03:07 PM
29	070829-2-029	7H27130-MSD1	1	Aug/29/07	4:06:58 PM
30	070829-2-030	7H28133-BLK1	1	Aug/29/07	4:10:50 PM
31	070829-2-031	7H28133-BS1	1	Aug/29/07	4:14:42 PM
32	070829-2-032	IQH1759-40	1	Aug/29/07	4:18:35 PM
33	070829-2-033	7H28133-MS1	1	Aug/29/07	4:22:29 PM
34	070829-2-034	7H28133-MSD1	1	Aug/29/07	4:26:22 PM
35	070829-2-035	CCV	1	Aug/29/07	4:30:16 PM
36	070829-2-036	CCB	1	Aug/29/07	4:34:09 PM
37	070829-2-037	BP RL CHK	1	Aug/29/07	4:58:54 PM
38	070829-2-038	IQH1781-02	1	Aug/29/07	5:02:50 PM
39	070829-2-039	IQH1781-03	1	Aug/29/07	5:06:43 PM
40	070829-2-040	IQH1781-04	1	Aug/29/07	5:10:35 PM
41	070829-2-041	IQH1781-05	1	Aug/29/07	5:14:28 PM
42	070829-2-042	7H28133-PS1	1	Aug/29/07	5:18:22 PM
43	070829-2-043	IQH1759-37	1	Aug/29/07	5:22:17 PM
44	070829-2-044	IQH1759-38	1	Aug/29/07	5:26:11 PM
45	070829-2-045	IQH1759-39	1	Aug/29/07	5:30:06 PM
46	070829-2-046	IQH1759-41	1	Aug/29/07	5:34:00 PM
47	070829-2-047	CCV	1	Aug/29/07	5:37:52 PM
48	070829-2-048	CCB	1	Aug/29/07	5:41:46 PM
49	070829-2-049	IQH1781-06	1	Aug/29/07	5:47:37 PM
50	070829-2-050	IQH2204-01	1	Aug/29/07	5:51:29 PM
51	070829-2-051	IQH2204-02	1	Aug/29/07	5:55:19 PM
52	070829-2-052	IQH2204-03	1	Aug/29/07	5:59:10 PM
53	070829-2-053	IQH2204-04	1	Aug/29/07	6:03:01 PM
54	070829-2-054	IQH1759-43	1	Aug/29/07	6:06:52 PM
55	070829-2-055	IQH1759-44	1	Aug/29/07	6:10:45 PM
56	070829-2-056	IQH1759-45	1	Aug/29/07	6:14:38 PM
57	070829-2-057	IQH1759-46	1	Aug/29/07	6:18:30 PM
58	070829-2-058	IQH1759-47	1	Aug/29/07	6:22:24 PM
59	070829-2-059	CCV	1	Aug/29/07	6:26:17 PM
60	070829-2-060	CCB	1	Aug/29/07	6:30:10 PM
61	070829-2-061	BP RL CHK	1	Aug/29/07	6:34:05 PM
62	070829-2-062	IQH2217-01	1	Aug/29/07	6:38:00 PM
63	070829-2-063	IQH2274-01	1	Aug/29/07	6:41:51 PM

64	070829-2-064	IQH2274-02	1	Aug/29/07	6:45:44 PM
65	070829-2-065	IQH2274-03	1	Aug/29/07	6:49:37 PM
66	070829-2-066	IQH2275-01	1	Aug/29/07	6:53:29 PM
67	070829-2-067	IQH2361-01	1	Aug/29/07	6:57:22 PM
68	070829-2-068	IQH1759-48	1	Aug/29/07	7:01:16 PM
69	070829-2-069	IQH1759-49	1	Aug/29/07	7:05:10 PM
70	070829-2-070	IQH1759-50	1	Aug/29/07	7:09:04 PM
71	070829-2-071	IQH1759-51	1	Aug/29/07	7:12:58 PM
72	070829-2-072	IQH1759-52	1	Aug/29/07	7:16:53 PM
73	070829-2-073	CCV	1	Aug/29/07	7:20:47 PM
74	070829-2-074	CCB	1	Aug/29/07	7:24:40 PM
75	070829-2-075	IQH2361-02	1	Aug/29/07	7:28:34 PM
76	070829-2-076	IQH2361-03	1	Aug/29/07	7:32:30 PM
77	070829-2-077	IQH2361-04	1	Aug/29/07	7:36:22 PM
78	070829-2-078	IQH2361-05	1	Aug/29/07	7:40:13 PM
79	070829-2-079	IQH1759-53	1	Aug/29/07	7:44:06 PM
80	070829-2-080	IQH1759-54	1	Aug/29/07	7:48:00 PM
81	070829-2-081	IQH1759-55	1	Aug/29/07	7:51:52 PM
82	070829-2-082	IQH1759-56	1	Aug/29/07	7:55:45 PM
83	070829-2-083	CCV	1	Aug/29/07	7:59:38 PM
84	070829-2-084	CCB	1	Aug/29/07	8:03:31 PM
85	070829-2-085	BP RL CHK	1	Aug/29/07	8:07:27 PM

ICPMS
INITIAL CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070830-2

Labnumber: ICV-25PPB
Filename: 070830-2-005
Analyzed: Aug/30/07 11:13:02 AM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	25	23.595	94	90-110	
2	Antimony	25	23.229	93	90-110	
3	Arsenic	25	24.184	97	90-110	
4	Barium	25	25.111	100	90-110	
5	Beryllium	25	24.645	99	90-110	
6	Cadmium	25	25.253	101	90-110	
7	Cerium	25	25.698	103	90-110	
8	Chromium	25	25.498	102	90-110	
9	Cobalt	25	25.459	102	90-110	
10	Copper	25	25.246	101	90-110	
11	Copper[63]	25	25.393	102	90-110	
12	Iron	250	251.501	101	90-110	
13	Lead	25	25.403	102	90-110	
14	Manganese	25	25.775	103	90-110	
15	Molybdenum	25	25.401	102	90-110	
16	Nickel	25	24.88	100	90-110	
17	Selenium	25	24.55	98	90-110	
18	Silver	25	25.098	100	90-110	
19	Thallium	25	26.278	105	90-110	
20	Uranium	25	24.963	100	90-110	
21	Vanadium	25	25.223	101	90-110	
22	Zinc	25	25.069	100	90-110	

ICPMS
INITIAL CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	ICB
Data File/Seq.#:	070830-2	Filename:	070830-2-006
		Analyzed:	Aug/30/07 11:17:07 AM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	0.023	
2	Antimony	2	0.151	
3	Arsenic	1	-0.014	
4	Barium	1	0.01	
5	Beryllium	0.5	-0.002	
6	Cadmium	1	0	
7	Cerium	1	0.001	
8	Chromium	2	-0.105	
9	Cobalt	1	-0.001	
10	Copper	2	-0.004	
11	Copper[63]	2	0.001	
12	Iron	10	-0.497	
13	Lead	1	0.002	
14	Manganese	1	-0.002	
15	Molybdenum	2	0.037	
16	Nickel	2	-0.003	
17	Selenium	2	0.007	
18	Silver	1	0.001	
19	Thallium	1	0.045	
20	Uranium	1	0.016	
21	Vanadium	2	0.237	
22	Zinc	10	-0.013	

(*) denotes greater than 0.5x MRL

ICPMS
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument:	Elan	Labnumber:	0.2 PPB RL CHK
Data File/Seq.#:	070830-2	Filename:	070830-2-010
		Analyzed:	Aug/30/07 11:37:29 AM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum M	0.2	1.302	651	50-150	*
2	Antimony	0.2	0.207	103	50-150	
3	Arsenic	0.2	0.311	156	50-150	*
4	Barium	0.2	0.154	77	50-150	
5	Beryllium	0.2	0.211	105	50-150	
6	Cadmium	0.2	0.2	100	50-150	
7	Cerium	0.2	0.219	109	50-150	
8	Chromium	0.2	0.473	236	50-150	*
9	Cobalt	0.2	0.215	108	50-150	
10	Copper	0.2	0.191	96	50-150	
11	Copper[63]	0.2	0.192	96	50-150	
12	Iron M	2.0	5.423	271	50-150	*
13	Lead	0.2	0.211	105	50-150	
14	Manganese	0.2	0.282	141	50-150	
15	Molybdenum	0.2	0.269	135	50-150	
16	Nickel	0.2	0.225	113	50-150	
17	Selenium	0.2	0.403	202	50-150	*
18	Silver	0.2	0.204	102	50-150	
19	Thallium	0.2	0.205	103	50-150	
20	Uranium	0.2	0.206	103	50-150	
21	Vanadium	0.2	0.488	244	50-150	*
22	Zinc	0.2	0.052	26	50-150	*

0.2 ug/L < MDL for As, Cr, Se, V, Zn

ICPMS
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument:	Elan	Labnumber:	2.0 PPB RL CHK
Data File/Seq.#:	070830-2	Filename:	070830-2-011
		Analyzed:	Aug/30/07 11:41:20 AM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	2	2.848	142	50-150	
2	Antimony	2	2.019	101	50-150	
3	Arsenic	2	1.981	99	50-150	
4	Barium	2	1.923	96	50-150	
5	Beryllium	2	1.973	99	50-150	
6	Cadmium	2	2.016	101	50-150	
7	Cerium	2	2.161	108	50-150	
8	Chromium	2	2.377	119	50-150	
9	Cobalt	2	2.138	107	50-150	
10	Copper	2	2.091	105	50-150	
11	Copper[63]	2	2.127	106	50-150	
12	Iron	20	24.626	123	50-150	
13	Lead	2	2.13	107	50-150	
14	Manganese	2	2.284	114	50-150	
15	Molybdenum	2	2.04	102	50-150	
16	Nickel	2	2.112	106	50-150	
17	Selenium	2	2.068	103	50-150	
18	Silver	2	2.024	101	50-150	
19	Thallium	2	2.146	107	50-150	
20	Uranium	2	2.114	106	50-150	
21	Vanadium	2	2.276	114	50-150	
22	Zinc	2	1.992	100	50-150	

ICPMS
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070830-2

Labnumber: CCV
Filename: 070830-2-035
Analyzed: Aug/30/07 1:18:49 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	50	48.725	97	90-110	
2	Antimony	50	52.094	104	90-110	
3	Arsenic	50	48.828	98	90-110	
4	Barium	50	51.648	103	90-110	
5	Beryllium	50	50.623	101	90-110	
6	Cadmium	50	52.371	105	90-110	
7	Cerium	50	51.601	103	90-110	
8	Chromium	50	49.076	98	90-110	
9	Cobalt	50	50.692	101	90-110	
10	Copper	50	49.626	99	90-110	
11	Copper[63]	50	49.946	100	90-110	
12	Iron	500	495.722	99	90-110	
13	Lead	50	51.011	102	90-110	
14	Manganese	50	50.128	100	90-110	
15	Molybdenum	50	49.595	99	90-110	
16	Nickel	50	49.799	100	90-110	
17	Selenium	50	49.939	100	90-110	
18	Silver	50	51.556	103	90-110	
19	Thallium	50	52.64	105	90-110	
20	Uranium	50	49.93	100	90-110	
21	Vanadium	50	49.54	99	90-110	
22	Zinc	50	50.989	102	90-110	

ICPMS
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	CCB	
Data File/Seq.#:	070830-2	Filename:	070830-2-036	
		Analyzed:	Aug/30/07	1:22:42 PM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	0.017	
2	Antimony	2	0.025	
3	Arsenic	1	-0.605	*
4	Barium	1	0.011	
5	Beryllium	0.5	0.002	
6	Cadmium	1	0.002	
7	Cerium	1	0.001	
8	Chromium	2	-0.178	
9	Cobalt	1	0	
10	Copper	2	0	
11	Copper[63]	2	0	
12	Iron	10	-1.121	
13	Lead	1	0.002	
14	Manganese	1	-0.007	
15	Molybdenum	2	0.057	
16	Nickel	2	-0.012	
17	Selenium	2	0.028	
18	Silver	1	0.003	
19	Thallium	1	0.051	
20	Uranium	1	0.024	
21	Vanadium	2	0.451	
22	Zinc	10	0.009	

< MDL + 2

(*) denotes greater than 0.5x MRL

ICPMS
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070830-2

Labnumber: CCV
Filename: 070830-2-048
Analyzed: Aug/30/07 2:21:25 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	50	48.553	97	90-110	
2	Antimony	50	52.944	106	90-110	
3	Arsenic	50	49.347	99	90-110	
4	Barium	50	53.085	106	90-110	
5	Beryllium	50	49.772	100	90-110	
6	Cadmium	50	53.745	107	90-110	
7	Cerium	50	51.381	103	90-110	
8	Chromium	50	49.334	99	90-110	
9	Cobalt	50	50.714	101	90-110	
10	Copper	50	49.65	99	90-110	
11	Copper[63]	50	49.8	100	90-110	
12	Iron	500	493.307	99	90-110	
13	Lead	50	50.827	102	90-110	
14	Manganese	50	50.266	101	90-110	
15	Molybdenum	50	50.475	101	90-110	
16	Nickel	50	49.845	100	90-110	
17	Selenium	50	51.396	103	90-110	
18	Silver	50	52.425	105	90-110	
19	Thallium	50	52.802	106	90-110	
20	Uranium	50	49.363	99	90-110	
21	Vanadium	50	50.311	101	90-110	
22	Zinc	50	51.198	102	90-110	

ICPMS
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	CCB
Data File/Seq.#:	070830-2	Filename:	070830-2-049
		Analyzed:	Aug/30/07 2:25:18 PM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	0.028	
2	Antimony	2	0.031	
3	Arsenic	1	-0.556	*
4	Barium	1	-0.007	
5	Beryllium	0.5	-0.002	
6	Cadmium	1	0	
7	Cerium	1	0.001	
8	Chromium	2	-0.281	
9	Cobalt	1	0	
10	Copper	2	0.005	
11	Copper[63]	2	0.002	
12	Iron	10	-1.763	
13	Lead	1	0.002	
14	Manganese	1	-0.006	
15	Molybdenum	2	0.072	
16	Nickel	2	-0.014	
17	Selenium	2	0.077	
18	Silver	1	0.002	
19	Thallium	1	0.076	
20	Uranium	1	0.025	
21	Vanadium	2	0.393	
22	Zinc	10	-0.008	

< MDL x 2

(*) denotes greater than 0.5x MRL

ICPMS
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070830-2

Labnumber: CCV
Filename: 070830-2-061
Analyzed: Aug/30/07 3:11:51 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	50	48.76	98	90-110	
2	Antimony	50	50.381	101	90-110	
3	Arsenic	50	49.198	98	90-110	
4	Barium	50	50.03	100	90-110	
5	Beryllium	50	48.73	97	90-110	
6	Cadmium	50	50.723	101	90-110	
7	Cerium	50	51.579	103	90-110	
8	Chromium	50	49.694	99	90-110	
9	Cobalt	50	51.112	102	90-110	
10	Copper	50	50.845	102	90-110	
11	Copper[63]	50	50.969	102	90-110	
12	Iron	500	503.52	101	90-110	
13	Lead	50	51.869	104	90-110	
14	Manganese	50	50.895	102	90-110	
15	Molybdenum	50	49.658	99	90-110	
16	Nickel	50	50.452	101	90-110	
17	Selenium	50	49.148	98	90-110	
18	Silver	50	50.667	101	90-110	
19	Thallium	50	53.035	106	90-110	
20	Uranium	50	49.729	99	90-110	
21	Vanadium	50	50.327	101	90-110	
22	Zinc	50	51.171	102	90-110	

ICPMS
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	CCB	
Data File/Seq.#:	070830-2	Filename:	070830-2-062	
		Analyzed:	Aug/30/07	3:15:44 PM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	0.034	
2	Antimony	2	0.024	
3	Arsenic	1	-0.119	
4	Barium	1	0.001	
5	Beryllium	0.5	0.003	
6	Cadmium	1	0	
7	Cerium	1	0.001	
8	Chromium	2	-0.172	
9	Cobalt	1	0	
10	Copper	2	0.011	
11	Copper[63]	2	0.007	
12	Iron	10	0.002	
13	Lead	1	0.002	
14	Manganese	1	-0.006	
15	Molybdenum	2	0.057	
16	Nickel	2	-0.007	
17	Selenium	2	0.123	
18	Silver	1	0.002	
19	Thallium	1	0.06	
20	Uranium	1	0.023	
21	Vanadium	2	0.057	
22	Zinc	10	0.021	

(*) denotes greater than 0.5x MRL

ICPMS
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070830-2

Labnumber: CCV
Filename: 070830-2-074
Analyzed: Aug/30/07 4:02:30 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	50	49.232	98	90-110	
2	Antimony	50	49.208	98	90-110	
3	Arsenic	50	49.571	99	90-110	
4	Barium	50	49.654	99	90-110	
5	Beryllium	50	46.508	93	90-110	
6	Cadmium	50	49.271	99	90-110	
7	Cerium	50	52.615	105	90-110	
8	Chromium	50	50.462	101	90-110	
9	Cobalt	50	50.308	101	90-110	
10	Copper	50	50.29	101	90-110	
11	Copper[63]	50	50.428	101	90-110	
12	Iron	500	510.64	102	90-110	
13	Lead	50	50.074	100	90-110	
14	Manganese	50	50.773	102	90-110	
15	Molybdenum	50	49.272	99	90-110	
16	Nickel	50	49.763	100	90-110	
17	Selenium	50	48.348	97	90-110	
18	Silver	50	50.145	100	90-110	
19	Thallium	50	51.881	104	90-110	
20	Uranium	50	47.83	96	90-110	
21	Vanadium	50	51.192	102	90-110	
22	Zinc	50	49.836	100	90-110	

ICPMS
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	CCB	
Data File/Seq.#:	070830-2	Filename:	070830-2-075	
		Analyzed:	Aug/30/07	4:06:23 PM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	0.03	
2	Antimony	2	0.021	
3	Arsenic	1	0.038	
4	Barium	1	0.004	
5	Beryllium	0.5	0.003	
6	Cadmium	1	0.001	
7	Cerium	1	0.001	
8	Chromium	2	-0.133	
9	Cobalt	1	0.001	
10	Copper	2	0.009	
11	Copper[63]	2	0.007	
12	Iron	10	1.567	
13	Lead	1	0.003	
14	Manganese	1	-0.003	
15	Molybdenum	2	0.059	
16	Nickel	2	-0.009	
17	Selenium	2	0.052	
18	Silver	1	0.002	
19	Thallium	1	0.062	
20	Uranium	1	0.023	
21	Vanadium	2	0.33	
22	Zinc	10	-0.003	

(*) denotes greater than 0.5x MRL

ICPMS
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument: Elan
Data File/Seq.#: 070830-2

Labnumber: 2.0 PPB RL CHK
Filename: 070830-2-076
Analyzed: Aug/30/07 4:10:19 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	2	2.972	149	50-150	
2	Antimony	2	2.009	100	50-150	
3	Arsenic	2	2.329	116	50-150	
4	Barium	2	1.918	96	50-150	
5	Beryllium	2	1.931	97	50-150	
6	Cadmium	2	2.007	100	50-150	
7	Cerium	2	2.22	111	50-150	
8	Chromium	2	2.072	104	50-150	
9	Cobalt	2	2.114	106	50-150	
10	Copper	2	2.123	106	50-150	
11	Copper[63]	2	2.106	105	50-150	
12	Iron	20	25.529	128	50-150	
13	Lead	2	2.096	105	50-150	
14	Manganese	2	2.301	115	50-150	
15	Molybdenum	2	2.024	101	50-150	
16	Nickel	2	2.082	104	50-150	
17	Selenium	2	2.211	111	50-150	
18	Silver	2	2.036	102	50-150	
19	Thallium	2	2.083	104	50-150	
20	Uranium	2	2.015	101	50-150	
21	Vanadium	2	2.166	108	50-150	
22	Zinc	2	2.009	100	50-150	

Method 6020/200.8 - Summary Report

Sample ID: ICSA
Sample Date/Time: Thursday, August 30, 2007 11:23:26
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\working methods\050628.mth
Dataset File: C:\elandata\Dataset\Default\0708DASET\070830-2\ICSA.007

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	77.001	2.333	0.21310	14.06	ug/L
	Al	27	422090074.412	3087.031	70521.22510	0.33	ug/L
	V	51	7403.626	-1200.996	0.76268	28.24	ug/L
	Cr	52	41183.075	17192.514	2.26080	3.41	ug/L
	Mn	55	40060.825	859.368	2.91405	2.12	ug/L
	Co	59	4912.227	69.668	0.42251	1.64	ug/L
	Ni	60	5885.081	98.365	2.24005	1.69	ug/L
	Cu	63	15143.508	298.339	2.55941	0.33	ug/L
	Cu	65	7187.213	195.337	2.39169	2.47	ug/L
	Zn	66	16040.164	1056.716	8.88291	0.75	ug/L
>	Ge	72	120999.936	109561.954			mg/L
	As	75	7523.670	7886.205	-0.68041	8.22	ug/L
	Se	82	274.903	62.426	1.20464	8.49	ug/L
	Kr	84	258.552	225.180			mg/L
	Mo	98	7411450.246	95.783	1768.04484	1.06	ug/L
	Ag	107	1921.482	21.000	0.23017	3.07	ug/L
	Cd	114	17799.273	20.686	3.84903	2.85	ug/L
	Sb	121	2566.256	73.001	0.42337	3.10	ug/L
	Ba	135	1499.760	214.004	0.79412	5.97	ug/L
>	Tb	159	821602.077	869964.990			ug/L
	Tl	205	5417.415	173.336	0.36369	2.62	ug/L
	Pb	208	18646.290	149.002	0.86886	0.74	ug/L
	U	238	1292.071	83.668	0.05030	2.19	ug/L
	Na	23	S	12183.319	S	S	mg/L
	Mg	24	304619194.485	1401.083	107.71570	1.09	mg/L
	K	39	S	442485.349	S	S	mg/L
	Ca	44	23515971.336	14482.487	109.75406	0.44	mg/L
	Fe	54	58453301.476	30033.595	116846.33075	0.83	ug/L
>	Sc	45	358146.488	454074.089			mg/L
	Ce	140	5828.581	44.334	0.35428	2.76	ug/L
>	In	115	683203.585	776053.522			ug/L

low interferents in assoc. samples

Method 6020/200.8 - Summary Report

Sample ID: ICSAB
Sample Date/Time: Thursday, August 30, 2007 11:28:31
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\working methods\050628.mth
Dataset File: C:\elandata\Dataset\Default\0708DASET\070830-2\ICSAB.008

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	69.001	2.333	0.19511	7.62	ug/L
	Al	27	418055447.107	3087.031	71486.73124	1.35	ug/L
	V	51	5016.423	-1200.996	0.57086	72.96	ug/L
	Cr	52	209330.662	17192.514	19.90323	2.75	ug/L
	Mn	55	283115.126	859.368	21.51639	1.73	ug/L
	Co	59	191298.950	69.668	17.10273	2.18	ug/L
	Ni	60	43731.356	98.365	17.31734	3.57	ug/L
	Cu	63	90652.986	298.339	15.97778	2.92	ug/L
	Cu	65	42978.985	195.337	15.01713	2.19	ug/L
	Zn	66	35695.230	1056.716	21.12793	1.55	ug/L
>	Ge	72	118222.769	109561.954			mg/L
	As	75	36637.209	7886.205	16.52085	0.67	ug/L
	Se	82	283.846	62.426	1.29662	14.07	ug/L
	Kr	84	299.112	225.180			mg/L
	Mo	98	7409987.832	95.783	1809.25118	1.36	ug/L
	Ag	107	131319.130	21.000	16.29195	2.29	ug/L
	Cd	114	91719.700	20.686	20.31955	2.19	ug/L
	Sb	121	2242.198	73.001	0.37702	1.19	ug/L
	Ba	135	1452.422	214.004	0.78560	3.73	ug/L
>	Tb	159	794021.793	869964.990			ug/L
	Tl	205	5239.013	173.336	0.36399	1.13	ug/L
	Pb	208	18096.027	149.002	0.87259	2.23	ug/L
	U	238	1222.731	83.668	0.04918	4.21	ug/L
	Na	23	S	12183.319	S	S	mg/L
	Mg	24	303277110.604	1401.083	109.55459	3.74	mg/L
	K	39	S	442485.349	S	S	mg/L
	Ca	44	23601137.469	14482.487	112.50635	1.23	mg/L
	Fe	54	60247587.117	30033.595	123006.93921	1.56	ug/L
>	Sc	45	350689.023	454074.089			mg/L
	Ce	140	5720.869	44.334	0.35900	0.22	ug/L
>	In	115	661837.642	776053.522			ug/L

RUN LOG

Intrument: *Elan*

Calib.file #: 070830-2 Calib. date: 8/30/2007

#	File_Name	Lab_Number	Dilution	Analyzed	Time
1	070830-2-001	Blank	1	Aug/30/07	10:48:59 AM
2	070830-2-002	Standard 1	1	Aug/30/07	10:54:03 AM
3	070830-2-003	Standard 2	1	Aug/30/07	11:00:08 AM
4	070830-2-004	Standard 3	1	Aug/30/07	11:06:14 AM
5	070830-2-005	ICV-25PPB	1	Aug/30/07	11:13:02 AM
6	070830-2-006	ICB	1	Aug/30/07	11:17:07 AM
7	070830-2-007	ICSA	1	Aug/30/07	11:23:26 AM
8	070830-2-008	ICSAB	1	Aug/30/07	11:28:31 AM
9	070830-2-009	RINSE	1	Aug/30/07	11:33:39 AM
10	070830-2-010	0.2 PPB RL CHK	1	Aug/30/07	11:37:29 AM
11	070830-2-011	2.0 PPB RL CHK	1	Aug/30/07	11:41:20 AM
12	070830-2-012	IQH1781-01	1	Aug/30/07	11:45:10 AM
13	070830-2-013	IQH2204-01	1	Aug/30/07	11:49:02 AM
14	070830-2-014	IQH2204-02	1	Aug/30/07	11:52:54 AM
15	070830-2-015	IQH2402-01	1	Aug/30/07	11:56:45 AM
16	070830-2-016	IQH1759-43	1	Aug/30/07	12:00:37 PM
17	070830-2-017	IQH1759-44	1	Aug/30/07	12:04:28 PM
18	070830-2-018	IQH1759-45	1	Aug/30/07	12:08:21 PM
19	070830-2-019	IQH1759-46	1	Aug/30/07	12:12:13 PM
20	070830-2-020	IQH1759-47	1	Aug/30/07	12:16:06 PM
21	070830-2-021	IQH1759-48	1	Aug/30/07	12:19:58 PM
22	070830-2-022	CCV	1	Aug/30/07	12:23:51 PM
23	070830-2-023	CCB	1	Aug/30/07	12:27:44 PM
24	070830-2-024	BP RL CHK	1	Aug/30/07	12:35:38 PM
25	070830-2-025	IQH2204-03	1	Aug/30/07	12:40:09 PM
26	070830-2-026	IQH2204-04	1	Aug/30/07	12:44:02 PM
27	070830-2-027	IQH2217-01	1	Aug/30/07	12:47:55 PM
28	070830-2-028	IQH1759-49	1	Aug/30/07	12:51:48 PM
29	070830-2-029	IQH1759-50	1	Aug/30/07	12:55:41 PM
30	070830-2-030	IQH1759-51	1	Aug/30/07	12:59:33 PM
31	070830-2-031	IQH1759-52	1	Aug/30/07	1:03:23 PM
32	070830-2-032	IQH1759-53	1	Aug/30/07	1:07:14 PM
33	070830-2-033	IQH1759-54	1	Aug/30/07	1:11:05 PM
34	070830-2-034	IQH1759-55	1	Aug/30/07	1:14:57 PM
35	070830-2-035	CCV	1	Aug/30/07	1:18:49 PM
36	070830-2-036	CCB	1	Aug/30/07	1:22:42 PM
37	070830-2-037	BP RL CHK	1	Aug/30/07	1:38:52 PM
38	070830-2-038	IQH2361-01	1	Aug/30/07	1:42:46 PM
39	070830-2-039	IQH2361-02	1	Aug/30/07	1:46:36 PM
40	070830-2-040	IQH2361-03	1	Aug/30/07	1:50:26 PM
41	070830-2-041	IQH1759-56	1	Aug/30/07	1:54:17 PM
42	070830-2-042	7H28132-BLK1	1	Aug/30/07	1:58:09 PM
43	070830-2-043	7H28132-BS1	1	Aug/30/07	2:02:00 PM
44	070830-2-044	IQH1759-29	1	Aug/30/07	2:05:53 PM
45	070830-2-045	7H28132-MS1	1	Aug/30/07	2:09:46 PM
46	070830-2-046	7H28132-MSD1	1	Aug/30/07	2:13:40 PM
47	070830-2-047	7H28132-PS1	1	Aug/30/07	2:17:33 PM
48	070830-2-048	CCV	1	Aug/30/07	2:21:25 PM
49	070830-2-049	CCB	1	Aug/30/07	2:25:18 PM
50	070830-2-050	BP RL CHK	1	Aug/30/07	2:29:17 PM
51	070830-2-051	IQH2361-04	1	Aug/30/07	2:33:11 PM
52	070830-2-052	IQH2361-05	1	Aug/30/07	2:37:02 PM
53	070830-2-053	IQH1759-17	1	Aug/30/07	2:40:53 PM
54	070830-2-054	IQH1759-19	1	Aug/30/07	2:44:44 PM
55	070830-2-055	IQH1759-20	1	Aug/30/07	2:48:35 PM
56	070830-2-056	IQH1759-21	1	Aug/30/07	2:52:27 PM
57	070830-2-057	IQH1759-22	1	Aug/30/07	2:56:19 PM
58	070830-2-058	IQH1759-23	1	Aug/30/07	3:00:12 PM
59	070830-2-059	IQH1759-24	1	Aug/30/07	3:04:04 PM
60	070830-2-060	IQH1759-25	1	Aug/30/07	3:07:57 PM
61	070830-2-061	CCV	1	Aug/30/07	3:11:51 PM
62	070830-2-062	CCB	1	Aug/30/07	3:15:44 PM
63	070830-2-063	BP RL CHK	1	Aug/30/07	3:19:39 PM

64	070830-2-064	IQH1759-26	1	Aug/30/07	3:23:44 PM
65	070830-2-065	IQH1759-27	1	Aug/30/07	3:27:38 PM
66	070830-2-066	IQH1759-28	1	Aug/30/07	3:31:33 PM
67	070830-2-067	IQH1759-30	1	Aug/30/07	3:35:25 PM
68	070830-2-068	IQH1759-31	1	Aug/30/07	3:39:16 PM
69	070830-2-069	IQH1759-32	1	Aug/30/07	3:43:08 PM
70	070830-2-070	IQH1759-33	1	Aug/30/07	3:47:00 PM
71	070830-2-071	IQH1759-34	1	Aug/30/07	3:50:52 PM
72	070830-2-072	IQH1759-35	1	Aug/30/07	3:54:44 PM
73	070830-2-073	IQH1759-36	1	Aug/30/07	3:58:37 PM
74	070830-2-074	CCV	1	Aug/30/07	4:02:30 PM
75	070830-2-075	CCB	1	Aug/30/07	4:06:23 PM
76	070830-2-076	BP RL CHK	1	Aug/30/07	4:10:19 PM
77	070830-2-077	7H29121-BLK1	1	Aug/30/07	5:55:02 PM
78	070830-2-078	7H29121-BS1	1	Aug/30/07	5:58:55 PM
79	070830-2-079	IQH2644-05	1	Aug/30/07	6:02:49 PM
80	070830-2-080	7H29121-MS1	1	Aug/30/07	6:06:43 PM
81	070830-2-081	7H29121-MSD1	1	Aug/30/07	6:10:38 PM
82	070830-2-082	7H29121-PS1	1	Aug/30/07	6:14:31 PM
83	070830-2-083	IQH2644-01	1	Aug/30/07	6:18:23 PM
84	070830-2-084	IQH2644-02	1	Aug/30/07	6:22:15 PM
85	070830-2-085	IQH2644-03	1	Aug/30/07	6:26:07 PM
86	070830-2-086	CCV	1	Aug/30/07	6:30:00 PM
87	070830-2-087	CCB	1	Aug/30/07	6:33:53 PM
88	070830-2-088	IQH2644-04	1	Aug/30/07	6:37:46 PM
89	070830-2-089	IQH2654-01	1	Aug/30/07	6:41:39 PM
90	070830-2-090	CCV	1	Aug/30/07	6:45:32 PM
91	070830-2-091	CCB	1	Aug/30/07	6:49:25 PM
92	070830-2-092	BP RL CHK	1	Aug/30/07	6:53:21 PM

METALS DIGESTION LOG (Solids)
Prep Method: (Circle One) 200.2 3050A 3050A (GF)

6020

Temp: 85°C
Analyst: atl
Dig Tube Lot:

	Client	Sample ID	Sample Size (g)	Test	Matrix	1:1 HNO3 (mL)	conc HNO3 (mL)	1:1 HCL (mL)	H2O2 Add (mL)	Final Vol. (mL)	Comments
		Method Blank	2.00 ± .04	CAM	Soil	10	5	10	3	50	
		LCS 7080346	2.00								
1		IQH 1759-29	2.00								
		MS	2.00								
		SD	2.00								
2		-17	2.01								
3		-19	2.00								
4		-20	2.01								
5		-21	1.99								
6		-22	2.00								
7		-23	1.99								
8		-24	2.00								
9		-25	2.00								
10		-26	2.00								
11		-27	2.01								
12		-28	2.01								
13		~~-29~~	1.99								
14		-30	2.00								
15		-31	2.00								
16		-32	2.00								
17		-33	2.00								
18		-34	2.00								
19		-35	2.00								
20		-36	2.00								

A Spike ID#: 7080344
B Spike ID#: 7080345
Volume Spike Added LCS: A+B 1000 ml
Volume Spike Added MS/SD:

HCl ID#: 7070354
HNO3 ID#: 7070445
H2O2 ID#: 7070344

Date: 8/28/08
Batch: 7H28132

2nd SEMI-ANNUAL MDL STUDY - 2006

Metals by ICPMS - EPA 6020/200.8

Instrument: Elan2
Prep: 3005A/200.2 (50ml->50ml)

Zn, Al: contaminated

Reviewed: T. Vu (l

#	Analyte	Spike(ug/l) recom.	Spike(ug/l) Actual	MDL Runs - (ug/L) Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Calc Data (ug/L) Avrg	StdDev	MDL	final MDL	LIMS Data (ug/L) MDL	RL_1	RL_2	Validation Criteria MDL<RL	Ch'g	Ratio	%Rec
1	Aluminum	<=10	10	20.14	19.31	15.54	16.41	16.26	16.25	15.47	17.66	17.13	1.75	5.25	5.2	6.0	10		OK	-13%	2	171%
2	Antimony	<=1	1	1.096	1.107	1.121	1.097	1.020	1.004	0.996	0.972	1.05	0.06	0.18	0.18	0.05	2	1	OK	255%	6	105%
3	Arsenic	<=1	1	0.947	0.867	0.822	0.769	0.924	0.812	0.851	0.800	0.85	0.06	0.18	0.18	0.70	1		OK	-74%	5	85%
4	Barium	<=1	1	0.995	0.987	1.051	0.970	1.185	0.971	1.008	0.979	1.02	0.07	0.22	0.22	0.15	1		OK	44%	5	102%
5	Beryllium	<=0.2	0.2	0.217	0.180	0.204	0.190	0.176	0.166		0.141	0.18	0.02	0.08	0.08	0.075	0.5	0.2	OK	no ch'g	3	91%
6	Cadmium	<=0.2	0.2	0.213	0.214	0.213	0.213	0.156	0.145		0.144	0.19	0.03	0.11	0.11	0.05	1	0.2	OK	120%	2	93%
7	Cerium	<=1	1	1.050	1.040	1.055	1.038	1.086	1.086	1.081	1.078	1.06	0.02	0.06	0.06	0.35	1		OK	-82%	16	106%
8	Chromium	<=1	1	1.327	1.293	1.446	1.421	1.186	1.106	1.159	1.158	1.26	0.13	0.39	0.39	0.70	2	1	OK	-45%	3	128%
9	Cobalt	<=1	1	1.056	1.032	1.058	1.017	1.043	1.029	1.026	1.013	1.03	0.02	0.05	0.05	0.15	1		OK	-67%	20	103%
10	Copper	<=1	1	1.020	1.021	1.114	1.103	1.750	1.310	1.149	1.351	1.23	0.24	0.73	0.73	0.40	2	1	OK	82%	1	123%
11	Copper[63]	<=1	1	1.038	1.023	1.141	1.144	1.777	1.350	1.195	1.374	1.26	0.25	0.74	0.74	0.30	2	1	OK	147%	1	126%
12	Lead	<=1	1	1.119	1.154	1.146	1.123	1.106	1.099	1.089	1.092	1.12	0.02	0.07	0.07	0.10	1		OK	-27%	14	112%
13	Manganese	<=1	1	1.054	1.086	1.509	1.096	0.826	0.843	0.712	0.848	1.00	0.25	0.75	0.75	0.5	1		OK	50%	1	100%
14	Molybdenum	<=1	1	1.028	1.031	1.039	1.023	1.008	0.971	0.968	0.985	1.01	0.03	0.08	0.08	0.15	2	1	OK	-43%	12	101%
15	Nickel	<=1	1	1.023	1.032	1.149	1.003	1.013	1.009	0.966	0.977	1.02	0.06	0.17	0.17	0.90	2	1	OK	-81%	6	102%
16	Selenium	<=1	1	0.883	0.915	0.908	0.879	0.912	0.856	0.857	0.896	0.89	0.02	0.07	0.07	0.3	2	1	OK	-76%	14	89%
17	Silver	<=1	1	1.122	1.054	1.212	1.044	1.133	1.122	1.113	1.106	1.11	0.05	0.16	0.16	0.10	1		OK	55%	6	111%
18	Thallium	<=1	1	1.116	1.128	1.137	1.113	1.068	1.074	1.060	1.071	1.10	0.03	0.09	0.09	0.15	1		OK	-39%	11	110%
19	Uranium	<=1	1	1.133	1.141	1.167	1.130	1.179	1.167	1.159	1.172	1.16	0.02	0.06	0.06	0.15	1		OK	-62%	18	116%
20	Vanadium	<=1	1	0.572	0.300	0.681	0.051	0.686	0.762	0.703	0.695	0.56	0.25	0.75	0.75	0.7	2	1	OK	7%	1	56%
21	Zinc	<=5	1	2.214	2.312	3.431	2.466	3.631	3.299	3.346	4.302	3.13	0.73	2.19	2.2	2.5	10	5	OK	-12%	<1	313%
	For Reference:																					
5	Beryllium	<=0.2	1	0.986	0.971	1.011	1.005	1.034	0.985	0.964	0.965	0.99	0.02	0.07	0.07	0.075	0.5	0.2	OK	no ch'g	13	99%
6	Cadmium	<=0.2	1	1.046	1.049	1.053	1.021	1.021	0.997	0.991	0.997	1.02	0.03	0.08	0.08	0.025	1	0.2	OK	203%	13	102%
21	Zinc	<=5	2	3.718	4.226	3.882	4.009	166.6	10.246	9.336	50.51	31.57	56.81	170.33	170	2.5	10	5	FAIL	6713%	<1	1578%

MDL < spike < 10x MDL

ICPMS
INITIAL CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070829-2

Labnumber: ICV-25PPB
Filename: 070829-2-005
Analyzed: Aug/29/07 11:59:41 AM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	25	25.276	101	90-110	
2	Antimony	25	23.493	94	90-110	
3	Arsenic	25	24.211	97	90-110	
4	Barium	25	25.291	101	90-110	
5	Beryllium	25	24.54	98	90-110	
6	Cadmium	25	26.059	104	90-110	
7	Cerium	25	23.228	93	90-110	
8	Chromium	25	26.012	104	90-110	
9	Cobalt	25	26.297	105	90-110	
10	Copper	25	25.105	100	90-110	
11	Copper[63]	25	25.33	101	90-110	
12	Iron	250	251.445	101	90-110	
13	Lead	25	25.606	102	90-110	
14	Manganese	25	26.511	106	90-110	
15	Molybdenum	25	25.967	104	90-110	
16	Nickel	25	25.25	101	90-110	
17	Selenium	25	24.868	99	90-110	
18	Silver	25	26.064	104	90-110	
19	Thallium	25	25.277	101	90-110	
20	Uranium	25	24.743	99	90-110	
21	Vanadium	25	25.265	101	90-110	
22	Zinc	25	25.788	103	90-110	

ICPMS
INITIAL CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	ICB	
Data File/Seq.#:	070829-2	Filename:	070829-2-006	
		Analyzed:	Aug/29/07	12:03:46 PM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	0.006	
2	Antimony	2	0.164	
3	Arsenic	1	-0.045	
4	Barium	1	0.004	
5	Beryllium	0.5	0.005	
6	Cadmium	1	0	
7	Cerium	1	0	
8	Chromium	2	-0.288	
9	Cobalt	1	0	
10	Copper	2	0.002	
11	Copper[63]	2	0.001	
12	Iron	10	-0.803	
13	Lead	1	0.002	
14	Manganese	1	-0.001	
15	Molybdenum	2	0.022	
16	Nickel	2	-0.006	
17	Selenium	2	0.005	
18	Silver	1	0.001	
19	Thallium	1	0.045	
20	Uranium	1	0.004	
21	Vanadium	2	0.07	
22	Zinc	10	-0.045	

(*) denotes greater than 0.5x MRL

ICPMS
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument:	Elan	Labnumber:	0.2 PPB RL CHECK
Data File/Seq.#:	070829-2	Filename:	070829-2-010
		Analyzed:	Aug/29/07 12:26:41 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum NT	0.2	1.057	528	50-150	*
2	Antimony	0.2	0.248	124	50-150	
3	Arsenic	0.2	0.072	36	50-150	*
4	Barium	0.2	0.19	95	50-150	
5	Beryllium	0.2	0.255	128	50-150	
6	Cadmium	0.2	0.217	108	50-150	
7	Cerium	0.2	0.202	101	50-150	
8	Chromium	0.2	-0.479	-239	50-150	*
9	Cobalt	0.2	0.222	111	50-150	
10	Copper	0.2	0.107	53	50-150	
11	Copper[63]	0.2	0.099	50	50-150	
12	Iron NT	2.0	-0.961	-48	50-150	*
13	Lead	0.2	0.217	108	50-150	
14	Manganese	0.2	0.262	131	50-150	
15	Molybdenum	0.2	0.268	134	50-150	
16	Nickel	0.2	0.213	107	50-150	
17	Selenium	0.2	0.246	123	50-150	
18	Silver	0.2	0.214	107	50-150	
19	Thallium	0.2	0.2	100	50-150	
20	Uranium	0.2	0.208	104	50-150	
21	Vanadium	0.2	0.44	220	50-150	*
22	Zinc	0.2	0.194	97	50-150	

0.2 ug/L < MDL for As, Cr, ✓

ICPMS

REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument: Elan
Data File/Seq.#: 070829-2

Labnumber: 2.0 PPB RL CHECK
Filename: 070829-2-011
Analyzed: Aug/29/07 12:30:46 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	2	2.612	131	50-150	
2	Antimony	2	2.167	108	50-150	
3	Arsenic	2	1.945	97	50-150	
4	Barium	2	2.079	104	50-150	
5	Beryllium	2	2.634	132	50-150	
6	Cadmium	2	2.182	109	50-150	
7	Cerium	2	2.008	100	50-150	
8	Chromium	2	1.393	70	50-150	
9	Cobalt	2	2.212	111	50-150	
10	Copper	2	2.16	108	50-150	
11	Copper[63]	2	2.187	109	50-150	
12	Iron	20	18.974	95	50-150	
13	Lead	2	2.158	108	50-150	
14	Manganese	2	2.314	116	50-150	
15	Molybdenum	2	2.11	106	50-150	
16	Nickel	2	2.18	109	50-150	
17	Selenium	2	2.041	102	50-150	
18	Silver	2	2.218	111	50-150	
19	Thallium	2	2.065	103	50-150	
20	Uranium	2	2.133	107	50-150	
21	Vanadium	2	2.194	110	50-150	
22	Zinc	2	2.202	110	50-150	

ICPMS
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070829-2

Labnumber: CCV
Filename: 070829-2-024
Analyzed: Aug/29/07 1:39:35 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum NT	50	43.821	88	90-110	*
2	Antimony	50	52.264	105	90-110	
3	Arsenic	50	51.49	103	90-110	
4	Barium	50	52.067	104	90-110	
5	Beryllium	50	65.217	130	90-110	*
6	Cadmium	50	53.154	106	90-110	
7	Cerium	50	48.233	96	90-110	
8	Chromium	50	49.918	100	90-110	
9	Cobalt	50	52.693	105	90-110	
10	Copper	50	51.678	103	90-110	
11	Copper[63]	50	52.058	104	90-110	
12	Iron	500	542.022	108	90-110	
13	Lead	50	51.864	104	90-110	
14	Manganese	50	51.299	103	90-110	
15	Molybdenum	50	52.114	104	90-110	
16	Nickel	50	52.021	104	90-110	
17	Selenium	50	50.649	101	90-110	
18	Silver	50	54.119	108	90-110	
19	Thallium	50	49.925	100	90-110	
20	Uranium	50	49.391	99	90-110	
21	Vanadium	50	50.017	100	90-110	
22	Zinc	50	50.539	101	90-110	

Be not reported from this sequence

ICPMS
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	CCB	
Data File/Seq.#:	070829-2	Filename:	070829-2-025	
		Analyzed:	Aug/29/07	1:43:28 PM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	0.03	
2	Antimony	2	0.013	
3	Arsenic	1	0.003	
4	Barium	1	0.01	
5	Beryllium	0.5	0.013	
6	Cadmium	1	0.005	
7	Cerium	1	0.003	
8	Chromium	2	-0.88	
9	Cobalt	1	0.004	
10	Copper	2	-0.002	
11	Copper[63]	2	-0.001	
12	Iron	10	-1.703	
13	Lead	1	0.014	
14	Manganese	1	0.005	
15	Molybdenum	2	0.037	
16	Nickel	2	0.051	
17	Selenium	2	0.013	
18	Silver	1	0.005	
19	Thallium	1	0.054	
20	Uranium	1	0.009	
21	Vanadium	2	0.264	
22	Zinc	10	0.129	

(*) denotes greater than 0.5x MRL

ICPMS
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070829-2

Labnumber: CCV
Filename: 070829-2-037
Analyzed: Aug/29/07 2:30:59 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	50	42.695	85	90-110	*
2	Antimony	50	52.336	105	90-110	
3	Arsenic	50	51.503	103	90-110	
4	Barium	50	51.712	103	90-110	
5	Beryllium	50	64.799	130	90-110	*
6	Cadmium	50	52.885	106	90-110	
7	Cerium	50	47.802	96	90-110	
8	Chromium	50	49.528	99	90-110	
9	Cobalt	50	52.332	105	90-110	
10	Copper	50	51.586	103	90-110	
11	Copper[63]	50	51.503	103	90-110	
12	Iron	500	549.655	110	90-110	
13	Lead	50	51.978	104	90-110	
14	Manganese	50	51.089	102	90-110	
15	Molybdenum	50	51.891	104	90-110	
16	Nickel	50	51.281	103	90-110	
17	Selenium	50	50.431	101	90-110	
18	Silver	50	53.759	108	90-110	
19	Thallium	50	49.86	100	90-110	
20	Uranium	50	49.57	99	90-110	
21	Vanadium	50	48.933	98	90-110	
22	Zinc	50	50.163	100	90-110	

Be not reported from this sequence

ICPMS
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	CCB
Data File/Seq.#:	070829-2	Filename:	070829-2-038
		Analyzed:	Aug/29/07 2:34:52 PM

	Analyte	Conc (ug/L)		Q	
		MRL	Found		
1	Aluminum	10	0.018		
2	Antimony	2	0.013		
3	Arsenic	1	0.1		
4	Barium	1	0.015		
5	Beryllium	0.5	0.004		
6	Cadmium	1	0.005		
7	Cerium	1	0.005		
8	Chromium	2	-1.015	*	< MDL x2
9	Cobalt	1	0.004		
10	Copper	2	0.005		
11	Copper[63]	2	0.003		
12	Iron	10	-0.879		
13	Lead	1	0.015		
14	Manganese	1	0.003		
15	Molybdenum	2	0.035		
16	Nickel	2	0.053		
17	Selenium	2	0.033		
18	Silver	1	0.006		
19	Thallium	1	0.061		
20	Uranium	1	0.009		
21	Vanadium	2	0.563		
22	Zinc	10	0.132		

(*) denotes greater than 0.5x MRL

ICPMS
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: Elan
Data File/Seq.#: 070829-2

Labnumber: CCV
Filename: 070829-2-043
Analyzed: Aug/29/07 2:55:35 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum NT	50	42.527	85	90-110	*
2	Antimony	50	52.181	104	90-110	
3	Arsenic	50	51.214	102	90-110	
4	Barium	50	52.087	104	90-110	
5	Beryllium	50	65.741	131	90-110	*
6	Cadmium	50	52.89	106	90-110	
7	Cerium	50	47.611	95	90-110	
8	Chromium	50	49.548	99	90-110	
9	Cobalt	50	52.679	105	90-110	
10	Copper	50	51.678	103	90-110	
11	Copper[63]	50	51.634	103	90-110	
12	Iron NT	500	554.241	111	90-110	*
13	Lead	50	52.416	105	90-110	
14	Manganese	50	50.801	102	90-110	
15	Molybdenum	50	51.536	103	90-110	
16	Nickel	50	51.721	103	90-110	
17	Selenium	50	50.644	101	90-110	
18	Silver	50	53.987	108	90-110	
19	Thallium	50	50.404	101	90-110	
20	Uranium	50	49.858	100	90-110	
21	Vanadium	50	48.157	96	90-110	
22	Zinc	50	50.204	100	90-110	

Be not reported from this sequence

ICPMS
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	Elan	Labnumber:	CCB	
Data File/Seq.#:	070829-2	Filename:	070829-2-044	
		Analyzed:	Aug/29/07	2:59:28 PM

	Analyte	Conc (ug/L)		Q
		MRL	Found	
1	Aluminum	10	0.026	
2	Antimony	2	0.013	
3	Arsenic	1	0.036	
4	Barium	1	0.013	
5	Beryllium	0.5	0.001	
6	Cadmium	1	0.006	
7	Cerium	1	0.006	
8	Chromium	2	-0.926	
9	Cobalt	1	0.005	
10	Copper	2	0.006	
11	Copper[63]	2	-0.002	
12	Iron	10	-0.146	
13	Lead	1	0.017	
14	Manganese	1	0.006	
15	Molybdenum	2	0.034	
16	Nickel	2	0.055	
17	Selenium	2	0.021	
18	Silver	1	0.006	
19	Thallium	1	0.061	
20	Uranium	1	0.01	
21	Vanadium	2	0.243	
22	Zinc	10	0.134	

(*) denotes greater than 0.5x MRL

ICPMS
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument: Elan
Data File/Seq.#: 070829-2

Labnumber: 2.0 PPB RL CHECK
Filename: 070829-2-045
Analyzed: Aug/29/07 3:03:23 PM

	Analyte	Conc (ug/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	2	1.841	92	50-150	
2	Antimony	2	2.138	107	50-150	
3	Arsenic	2	2.333	117	50-150	
4	Barium	2	2.105	105	50-150	
5	Beryllium	2	2.757	138	50-150	
6	Cadmium	2	2.198	110	50-150	
7	Cerium	2	2.069	103	50-150	
8	Chromium	2	1.286	64	50-150	
9	Cobalt	2	2.194	110	50-150	
10	Copper	2	2.024	101	50-150	
11	Copper[63]	2	2.06	103	50-150	
12	Iron	20	21.517	108	50-150	
13	Lead	2	2.166	108	50-150	
14	Manganese	2	2.313	116	50-150	
15	Molybdenum	2	2.114	106	50-150	
16	Nickel	2	2.097	105	50-150	
17	Selenium	2	2.033	102	50-150	
18	Silver	2	2.239	112	50-150	
19	Thallium	2	2.084	104	50-150	
20	Uranium	2	2.152	108	50-150	
21	Vanadium	2	2.319	116	50-150	
22	Zinc	2	2.96	148	50-150	

Method 6020/200.8 - Summary Report

Sample ID: ICSA

Sample Date/Time: Wednesday, August 29, 2007 12:15:13
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\elan2\working method\050902.mth
Dataset File: C:\elandata\Dataset\Default\ELAN2\0708DASET\070829-2\ICSA.007

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	75.334	5.333	0.18788	9.64	ug/L
	Al	27	S	3820.883	S	S	ug/L
	V	51	-1320.016	-21697.972	1.30781	8.67	ug/L
	Cr	52	78732.149	35939.522	2.68732	1.34	ug/L
	Mn	55	67201.707	1287.404	2.84863	1.11	ug/L
	Co	59	6438.849	67.334	0.37231	0.79	ug/L
	Ni	60	2806.460	107.642	0.69751	2.44	ug/L
	Cu	63	26111.787	1137.057	2.78738	3.56	ug/L
	Cu	65	12993.037	615.686	2.76010	2.01	ug/L
	Zn	66	31935.317	1432.753	10.02526	2.17	ug/L
>	Ge	72	219865.529	199064.701			mg/L
	As	75	17175.128	15775.026	-0.07850	6.64	ug/L
	Se	82	521.477	159.569	0.96197	11.07	ug/L
	Mo	98	15617286.364	268.717	1755.61467	0.86	ug/L
	Ag	107	3230.064	25.000	0.21694	0.73	ug/L
	Cd	114	26141.045	20.578	3.14054	3.68	ug/L
	Sb	121	4328.700	223.671	0.35896	5.43	ug/L
	Ba	135	2262.202	111.002	0.76596	1.54	ug/L
>	Tb	159	1401432.427	1500495.912			ug/L
	Tl	205	5926.622	216.337	0.27597	2.62	ug/L
	Pb	208	21395.099	153.669	0.76179	2.00	ug/L
	U	238	1232.399	56.001	0.03874	0.74	ug/L
	Na	23	S	76893.269	S	S	mg/L
	Mg	24	S	1927.816	S	S	mg/L
	K	39	S	954549.259	S	S	mg/L
	Ca	44	40336065.625	55285.025	103.50855	0.78	mg/L
	Fe	54	97373376.957	47905.345	111868.31353	2.00	ug/L
>	Sc	45	636969.602	758682.788			mg/L
>	Ce	140	8524.628	71.668	0.27603	0.66	ug/L
>	In	115	1308716.574	1404776.285			ug/L
	Kr	84	607.359	608.733			mg/L

low interferents in assoc. samples

Method 6020/200.8 - Summary Report

Sample ID: ICSAB
Sample Date/Time: Wednesday, August 29, 2007 12:19:02
Sample Description:
Number of Replicates: 3
Batch ID:
Method File: c:\elandata\Method\elan2\working method\050902.mth
Dataset File: C:\elandata\Dataset\Default\ELAN2\0708DASET\070829-2\ICSAB.008

Concentration Results

	Analyte	Mass	Meas. Intens. Mean	Blank Intensity	Conc. Mean	Conc. RSD	Sample Unit
	Be	9	114.335	5.333	0.28413	10.51	ug/L
	Al	27	S	3820.883	S	S	ug/L
	V	51	-6957.325	-21697.972	0.99329	10.15	ug/L
	Cr	52	310534.487	35939.522	17.94800	0.85	ug/L
	Mn	55	457939.147	1287.404	19.11684	2.03	ug/L
	Co	59	290644.280	67.334	16.44135	0.85	ug/L
	Ni	60	62020.805	107.642	15.54270	1.00	ug/L
	Cu	63	155554.021	1137.057	16.73258	1.23	ug/L
	Cu	65	78709.619	615.686	16.91480	0.49	ug/L
	Zn	66	74162.240	1432.753	23.17672	0.39	ug/L
>	Ge	72	227261.794	199064.701			mg/L
	As	75	71768.818	15775.026	16.44689	1.49	ug/L
	Se	82	500.951	159.569	0.85921	1.30	ug/L
	Mo	98	16439649.460	268.717	1787.23643	1.49	ug/L
	Ag	107	234303.514	25.000	15.34941	1.09	ug/L
	Cd	114	155903.072	20.578	18.12547	1.52	ug/L
	Sb	121	6275.775	223.671	0.51247	1.96	ug/L
	Ba	135	2355.885	111.002	0.77139	3.30	ug/L
>	Tb	159	1462212.973	1500495.912			ug/L
	Tl	205	7373.310	216.337	0.33120	3.68	ug/L
	Pb	208	24233.244	153.669	0.82762	0.99	ug/L
	U	238	1323.408	56.001	0.03996	3.37	ug/L
	Na	23	S	76893.269	S	S	mg/L
	Mg	24	S	1927.816	S	S	mg/L
	K	39	S	954549.259	S	S	mg/L
	Ca	44	41645468.416	55285.025	106.83452	0.89	mg/L
	Fe	54	100616251.208	47905.345	115521.83401	0.70	ug/L
>	Sc	45	637317.126	758682.788			mg/L
	Ce	140	9063.302	71.668	0.28724	1.10	ug/L
>	In	115	1337923.820	1404776.285			ug/L
	Kr	84	624.014	608.733			mg/L

RUN LOG

Intrument: *Elan2*

Calib.file #: 070829-2 Calib. date: 8/29/2007

#	File_Name	Lab_Number	Dilution	Analyzed	Time
1	070829-2-001	Blank	1	Aug/29/07	11:39:19 AM
2	070829-2-002	Standard 1	1	Aug/29/07	11:44:24 AM
3	070829-2-003	Standard 2	1	Aug/29/07	11:49:29 AM
4	070829-2-004	Standard 3	1	Aug/29/07	11:54:35 AM
5	070829-2-005	ICV-25PPB	1	Aug/29/07	11:59:41 AM
6	070829-2-006	ICB	1	Aug/29/07	12:03:46 PM
7	070829-2-007	ICSA	1	Aug/29/07	12:15:13 PM
8	070829-2-008	ICSAB	1	Aug/29/07	12:19:02 PM
9	070829-2-009	RINSE	1	Aug/29/07	12:22:51 PM
10	070829-2-010	0.2 PPB RL CHECK	1	Aug/29/07	12:26:41 PM
11	070829-2-011	2.0 PPB RL CHECK	1	Aug/29/07	12:30:46 PM
12	070829-2-012	7H28132-BLK1	1	Aug/29/07	12:38:25 PM
13	070829-2-013	7H28132-BS1	1	Aug/29/07	12:42:15 PM
14	070829-2-014	IQH1759-29	1	Aug/29/07	12:46:06 PM
15	070829-2-015	7H28132-MS1	1	Aug/29/07	12:49:58 PM
16	070829-2-016	7H28132-MSD1	1	Aug/29/07	12:53:49 PM
17	070829-2-017	7H28132-PS1	1	Aug/29/07	12:57:42 PM
18	070829-2-018	IQH1759-17	1	Aug/29/07	1:01:34 PM
19	070829-2-019	IQH1759-19	1	Aug/29/07	1:05:27 PM
20	070829-2-020	IQH1759-20	1	Aug/29/07	1:09:20 PM
21	070829-2-021	IQH1759-21	1	Aug/29/07	1:13:13 PM
22	070829-2-022	CCV	1	Aug/29/07	1:17:06 PM
23	070829-2-023	CCB	1	Aug/29/07	1:20:59 PM
24	070829-2-024	CCV	1	Aug/29/07	1:39:35 PM
25	070829-2-025	CCB	1	Aug/29/07	1:43:28 PM
26	070829-2-026	BP RL CHECK	1	Aug/29/07	1:47:24 PM
27	070829-2-027	IQH1759-22	1	Aug/29/07	1:52:20 PM
28	070829-2-028	IQH1759-23	1	Aug/29/07	1:56:11 PM
29	070829-2-029	IQH1759-24	1	Aug/29/07	2:00:01 PM
30	070829-2-030	IQH1759-25	1	Aug/29/07	2:03:52 PM
31	070829-2-031	IQH1759-26	1	Aug/29/07	2:07:44 PM
32	070829-2-032	IQH1759-27	1	Aug/29/07	2:11:36 PM
33	070829-2-033	IQH1759-28	1	Aug/29/07	2:15:28 PM
34	070829-2-034	IQH1759-30	1	Aug/29/07	2:19:20 PM
35	070829-2-035	IQH1759-31	1	Aug/29/07	2:23:13 PM
36	070829-2-036	IQH1759-32	1	Aug/29/07	2:27:06 PM
37	070829-2-037	CCV	1	Aug/29/07	2:30:59 PM
38	070829-2-038	CCB	1	Aug/29/07	2:34:52 PM
39	070829-2-039	IQH1759-33	1	Aug/29/07	2:40:07 PM
40	070829-2-040	IQH1759-34	1	Aug/29/07	2:44:00 PM
41	070829-2-041	IQH1759-35	1	Aug/29/07	2:47:53 PM
42	070829-2-042	IQH1759-36	1	Aug/29/07	2:51:44 PM
43	070829-2-043	CCV	1	Aug/29/07	2:55:35 PM
44	070829-2-044	CCB	1	Aug/29/07	2:59:28 PM
45	070829-2-045	BP RL CHECK	1	Aug/29/07	3:03:23 PM
46	070829-2-046	7H29100-BLK1	1	Aug/29/07	3:07:32 PM
47	070829-2-047	7H29100-BS1	1	Aug/29/07	3:11:23 PM
48	070829-2-048	IQH2710-01	1	Aug/29/07	3:15:14 PM
49	070829-2-049	7H29100-MS1	1	Aug/29/07	3:19:49 PM
50	070829-2-050	7H29100-MSD1	1	Aug/29/07	3:23:41 PM
51	070829-2-051	IQH2710-02	1	Aug/29/07	3:27:33 PM
52	070829-2-052	IQH2710-03	1	Aug/29/07	3:31:25 PM
53	070829-2-053	IQH2710-04	1	Aug/29/07	3:35:18 PM
54	070829-2-054	IQH2710-05	1	Aug/29/07	3:39:11 PM
55	070829-2-055	CCV	1	Aug/29/07	3:43:04 PM
56	070829-2-056	CCB	1	Aug/29/07	3:46:57 PM
57	070829-2-057	7H29072-BLK1	1	Aug/29/07	3:50:50 PM
58	070829-2-058	7H29072-BS1	1	Aug/29/07	3:54:42 PM
59	070829-2-059	IQH1966-01	1	Aug/29/07	3:58:33 PM
60	070829-2-060	7H29072-MS1	1	Aug/29/07	4:02:23 PM
61	070829-2-061	7H29072-MSD1	1	Aug/29/07	4:06:15 PM
62	070829-2-062	IQH2287-02	1	Aug/29/07	4:10:06 PM
63	070829-2-063	IQH1965-01	1	Aug/29/07	4:13:58 PM

INITIAL AND CONTINUOUS CALIBRATION CHECK
EPA 245.1/7470A/7471A - MERCURY

CV-Hg2
Units: ug/L
RL: 0.2 MDL 0.1

ICV Spike: 8
CCV Spike: 4
Sequence: 070823-1-007

Analyte												
	labnumber:	ICV	ICB	0.2 PPB	CCV	CCB	CCV	CCB	CCV	CCB	0.2PPB	CCV
	filename:	070823-1-007	070823-1-008	070823-1-009	070823-1-045	070823-1-046	070823-1-057	070823-1-058	070823-1-069	070823-1-070	070823-1-080	070823-1-081
	analyzed:	Aug/23/07	Aug/23/07	Aug/23/07	Aug/23/07	Aug/23/07	Aug/23/07	Aug/23/07	Aug/23/07	Aug/23/07	Aug/23/07	Aug/23/07
	time:	12:01:35 PM	12:03:22 PM	12:05:09 PM	1:12:02 PM	1:13:51 PM	1:33:50 PM	1:35:40 PM	1:54:52 PM	1:56:42 PM	2:14:17 PM	2:16:06 PM
Hg 253.7		8.14	0.08	0.26	3.84	0.08	3.78	0.03	3.98	0.08	0.24	3.99
	Spike:	8			4		4		4		0.2	4
	Rec (%):	102		130	96		95		100		120	100
	Limits (%):	~~90-110~~ 80-120			90-110		90-110		90-110		50-150	90-110

RUN LOG

Intrument: *CV-Hg2*

Calib.file #: 070823-1 Calib. date: 8/23/2007

#	File_Name	Lab_Number	Dilution	Analyzed	Time
1	070823-1-001	Blank	1	Aug/23/07	11:50:25 AM
2	070823-1-002	0.2 ppb	1	Aug/23/07	11:52:09 AM
3	070823-1-003	1.0 ppb	1	Aug/23/07	11:53:54 AM
4	070823-1-004	5.0 ppb	1	Aug/23/07	11:55:40 AM
5	070823-1-005	10.0 ppb	1	Aug/23/07	11:57:27 AM
6	070823-1-006	15.0 ppb	1	Aug/23/07	11:59:15 AM
7	070823-1-007	ICV	1	Aug/23/07	12:01:35 PM
8	070823-1-008	ICB	1	Aug/23/07	12:03:22 PM
9	070823-1-009	0.2 PPB	1	Aug/23/07	12:05:09 PM
10	070823-1-010	7H23068-BLK1	1	Aug/23/07	12:07:34 PM
11	070823-1-011	7H23068-BS1	1	Aug/23/07	12:09:18 PM
12	070823-1-012	IQH1941-01	1	Aug/23/07	12:11:04 PM
13	070823-1-013	7H23068-MS1	1	Aug/23/07	12:12:51 PM
14	070823-1-014	7H23068-MSD1	1	Aug/23/07	12:14:39 PM
15	070823-1-015	IQH1862-01	1	Aug/23/07	12:16:28 PM
16	070823-1-016	7H23072-BLK1	1	Aug/23/07	12:18:18 PM
17	070823-1-017	7H23072-BS1	1	Aug/23/07	12:20:04 PM
18	070823-1-018	IQH1561-02	1	Aug/23/07	12:21:47 PM
19	070823-1-019	CCV	1	Aug/23/07	12:23:33 PM
20	070823-1-020	CCB	1	Aug/23/07	12:25:23 PM
21	070823-1-021	7H23072-MS1	1	Aug/23/07	12:27:44 PM
22	070823-1-022	IQH1561-01	1	Aug/23/07	12:29:28 PM
23	070823-1-023	7H23069-BLK1	1	Aug/23/07	12:31:12 PM
24	070823-1-024	7H23069-BS1	1	Aug/23/07	12:32:58 PM
25	070823-1-025	IQH1993-07	1	Aug/23/07	12:34:43 PM
26	070823-1-026	7H23069-MS1	1	Aug/23/07	12:36:29 PM
27	070823-1-027	7H23069-MSD1	1	Aug/23/07	12:38:16 PM
28	070823-1-028	IQH1641-01	1	Aug/23/07	12:40:03 PM
29	070823-1-029	IQH1642-01	1	Aug/23/07	12:41:50 PM
30	070823-1-030	IQH1643-01	1	Aug/23/07	12:43:39 PM
31	070823-1-031	CCV	1	Aug/23/07	12:45:27 PM
32	070823-1-032	CCB	1	Aug/23/07	12:47:18 PM
33	070823-1-033	IQH1644-01	1	Aug/23/07	12:49:08 PM
34	070823-1-034	IQH1647-01	1	Aug/23/07	12:50:58 PM
35	070823-1-035	IQH1735-01	1	Aug/23/07	12:52:48 PM
36	070823-1-036	IQH1798-01	1	Aug/23/07	12:54:34 PM
37	070823-1-037	IQH1880-01	1	Aug/23/07	12:56:17 PM
38	070823-1-038	IQH1880-02	1	Aug/23/07	12:57:59 PM
39	070823-1-039	IQH1880-03	1	Aug/23/07	12:59:43 PM
40	070823-1-040	IQH1892-01	1	Aug/23/07	1:01:27 PM
41	070823-1-041	IQH1954-05	1	Aug/23/07	1:03:11 PM
42	070823-1-042	IQH1954-21	1	Aug/23/07	1:04:56 PM
43	070823-1-043	CCV	1	Aug/23/07	1:06:43 PM
44	070823-1-044	CCB	1	Aug/23/07	1:08:32 PM
45	070823-1-045	CCV	1	Aug/23/07	1:12:02 PM
46	070823-1-046	CCB	1	Aug/23/07	1:13:51 PM
47	070823-1-047	IQH1735-01	1	Aug/23/07	1:15:41 PM
48	070823-1-048	IQH1954-37	1	Aug/23/07	1:17:29 PM
49	070823-1-049	IQH1954-52	1	Aug/23/07	1:19:15 PM
50	070823-1-050	IQH1954-53	1	Aug/23/07	1:21:01 PM
51	070823-1-051	IQH1954-54	1	Aug/23/07	1:22:48 PM
52	070823-1-052	IQH1954-55	1	Aug/23/07	1:24:34 PM
53	070823-1-053	IQH1993-08	1	Aug/23/07	1:26:24 PM
54	070823-1-054	7H23070-BLK1	1	Aug/23/07	1:28:12 PM
55	070823-1-055	7H23070-BS1	1	Aug/23/07	1:30:11 PM
56	070823-1-056	IQH2089-06	1	Aug/23/07	1:32:00 PM
57	070823-1-057	CCV	1	Aug/23/07	1:33:50 PM
58	070823-1-058	CCB	1	Aug/23/07	1:35:40 PM
59	070823-1-059	7H23070-MS1	1	Aug/23/07	1:37:26 PM
60	070823-1-060	7H23070-MSD1	1	Aug/23/07	1:39:09 PM
61	070823-1-061	IQH1759-18	1	Aug/23/07	1:40:52 PM
62	070823-1-062	IQH1759-42	1	Aug/23/07	1:42:35 PM
63	070823-1-063	IQH1759-57	1	Aug/23/07	1:44:19 PM

blank

9/11/2007

64	070823-1-064	IQH1844-01	1	Aug/23/07	1:46:03 PM
65	070823-1-065	IQH1845-01	1	Aug/23/07	1:47:47 PM
66	070823-1-066	IQH1881-01	1	Aug/23/07	1:49:33 PM
67	070823-1-067	IQH1881-02	1	Aug/23/07	1:51:17 PM
68	070823-1-068	IQH1881-03	1	Aug/23/07	1:53:04 PM
69	070823-1-069	CCV	1	Aug/23/07	1:54:52 PM
70	070823-1-070	CCB	1	Aug/23/07	1:56:42 PM
71	070823-1-071	IQH1888-01	1	Aug/23/07	1:58:30 PM
72	070823-1-072	IQH1888-02	1	Aug/23/07	2:00:17 PM
73	070823-1-073	IQH1965-01	1	Aug/23/07	2:02:05 PM
74	070823-1-074	IQH1966-01	1	Aug/23/07	2:03:53 PM
75	070823-1-075	IQH1967-01	1	Aug/23/07	2:05:41 PM
76	070823-1-076	IQH1968-01	1	Aug/23/07	2:07:26 PM
77	070823-1-077	IQH1978-02	1	Aug/23/07	2:09:08 PM
78	070823-1-078	IQH2072-01	1	Aug/23/07	2:10:51 PM
79	070823-1-079	IQH2089-22	1	Aug/23/07	2:12:34 PM
80	070823-1-080	0.2PPB	1	Aug/23/07	2:14:17 PM
81	070823-1-081	CCV	1	Aug/23/07	2:16:06 PM
82	070823-1-082	CCB	1	Aug/23/07	2:17:56 PM

MERCURY DIGESTION LOG (Aqueous)
Prep Method (Circle One): 7470 245.1

Analyst: DA

	Client	Sample ID	Sample Size (mL)	Matrix	Conc. H2SO4 (mL)	Conc. HNO3 (mL)	KMnO4 (mL)	K2S2O8 Add (mL)	NaCl Hydrx. (mL)	Comments
		Method Blank	20.0	W	1.0	0.5	5.0	1.6	2.0	T@95°C
		LCS 7080324								(8.0ppb)
1	URS	IQH 2089-06A								
		MS								(8.0ppb)
		SD								(8.0ppb)
		Blank								
		0.2 ppb								
		1.0 ppb								
		5.0 ppb								
		10.0 ppb								
		15.0 ppb								
		ICV (2nd source)								(8.0ppb)
		CCV								(4.0ppb)
2	URS	IQH 2089-22A								
3	Brown	IQH 1759-18A								
4		42A								
5		57A								
6	TAOnt	IQH 1978-02B								
7	Smatts	IQH 1681-01C								
8		02C								
9		03C								
10		IQH 1888-01C								
11		02C								
12	TAOnt	IQH 1965-01B								
13		IQH 1966-01B								
14		IQH 1967-01B								
15		IQH 1968-01B								
16	Gibson	IQH 2072-01A								
17	Analy	IQH 1844-01B								
18		IQH 1845-01A								
19										
20										

Matrices: WF=Water Filtered WU=Water Unfiltered
Vol. Spike Added LCS: 160 µl HgStd
Vol. Spike Added MS/SD: ↓
Std ID: 7080324

ICV 7080325

Date: 8-23-07
Batch: 7H23070

INITIAL AND CONTINUOUS CALIBRATION CHECK
EPA 245.1/7470A/7471A - MERCURY

CV-Hg2
Units: ug/L
RL: 0.2 MDL 0.1

ICV Spike: 8
CCV Spike: 4
Sequence: 070827-1-007

Analyte											
	labnumber:	ICV	ICB	0.2 PPB	CCV	CCB	CCV	CCB	CCV	CCB	0.2PPB	CCV
	filename:	070827-1-007	070827-1-008	070827-1-009	070827-1-039	070827-1-040	070827-1-051	070827-1-052	070827-1-063	070827-1-064	070827-1-069	070827-1-070
	analyzed:	Aug/27/07	Aug/27/07	Aug/27/07	Aug/27/07	Aug/27/07	Aug/27/07	Aug/27/07	Aug/27/07	Aug/27/07	Aug/27/07	Aug/27/07
	time:	11:02:59 AM	11:04:46 AM	11:06:33 AM	11:59:57 AM	12:01:47 PM	2:31:16 PM	2:33:06 PM	2:52:32 PM	2:54:22 PM	3:03:11 PM	3:04:59 PM
Hg 253.7		7.44	0.04	0.18	4.27	0.02	3.96	-0.05	4.05	-0.06	0.11	4.05
	Spike:	8			4		4		4		0.2	4
	Rec (%):	93		90	107		99		101		55	101
	Limits (%):	~~90-110~~ 80-120			90-110		90-110		90-110		50-150	90-110

RUN LOG

Intrument: *CV-Hg2*

Calib.file #: 070827-1 Calib. date: 8/27/2007

#	File_Name	Lab_Number	Dilution	Analyzed	Time
1	070827-1-001	Blank	1	Aug/27/07	10:51:54 AM
2	070827-1-002	0.2 ppb	1	Aug/27/07	10:53:38 AM
3	070827-1-003	1.0 ppb	1	Aug/27/07	10:55:24 AM
4	070827-1-004	5.0 ppb	1	Aug/27/07	10:57:11 AM
5	070827-1-005	10.0 ppb	1	Aug/27/07	10:58:58 AM
6	070827-1-006	15.0 ppb	1	Aug/27/07	11:00:46 AM
7	070827-1-007	ICV	1	Aug/27/07	11:02:59 AM
8	070827-1-008	ICB	1	Aug/27/07	11:04:46 AM
9	070827-1-009	0.2 PPB	1	Aug/27/07	11:06:33 AM
10	070827-1-010	7H27077-BLK1	1	Aug/27/07	11:08:18 AM
11	070827-1-011	7H27077-BS1	1	Aug/27/07	11:10:02 AM
12	070827-1-012	IQH1309-01	1	Aug/27/07	11:11:49 AM
13	070827-1-013	7H27077-MS1	1	Aug/27/07	11:13:35 AM
14	070827-1-014	7H27077-MSD1	1	Aug/27/07	11:15:23 AM
15	070827-1-015	IQH2151-01	1	Aug/27/07	11:17:12 AM
16	070827-1-016	IQH2151-02	1	Aug/27/07	11:19:02 AM
17	070827-1-017	IQH2151-03	1	Aug/27/07	11:20:49 AM
18	070827-1-018	IQH2151-04	1	Aug/27/07	11:22:32 AM
19	070827-1-019	CCV	1	Aug/27/07	11:24:18 AM
20	070827-1-020	CCB	1	Aug/27/07	11:26:08 AM
21	070827-1-021	IQH2151-05	1	Aug/27/07	11:27:55 AM
22	070827-1-022	IQH2151-06	1	Aug/27/07	11:29:39 AM
23	070827-1-023	IQH2242-01	1	Aug/27/07	11:31:25 AM
24	070827-1-024	IQH2242-02	1	Aug/27/07	11:33:10 AM
25	070827-1-025	IQH2242-03	1	Aug/27/07	11:34:56 AM
26	070827-1-026	IQH2242-04	1	Aug/27/07	11:36:42 AM
27	070827-1-027	IQH2242-05	1	Aug/27/07	11:38:28 AM
28	070827-1-028	IQH2242-06	1	Aug/27/07	11:40:15 AM
29	070827-1-029	IQH2242-07	1	Aug/27/07	11:42:03 AM
30	070827-1-030	IQH2242-08	1	Aug/27/07	11:43:51 AM
31	070827-1-031	CCV	1	Aug/27/07	11:45:40 AM
32	070827-1-032	CCB	1	Aug/27/07	11:47:30 AM
33	070827-1-033	IQH2242-09	1	Aug/27/07	11:49:20 AM
34	070827-1-034	IQH2242-10	1	Aug/27/07	11:51:09 AM
35	070827-1-035	IQH2313-11	1	Aug/27/07	11:52:55 AM
36	070827-1-036	IQH2296-01	1	Aug/27/07	11:54:41 AM
37	070827-1-037	IQH2296-02	1	Aug/27/07	11:56:27 AM
38	070827-1-038	0.2PPB	1	Aug/27/07	11:58:10 AM
39	070827-1-039	CCV	1	Aug/27/07	11:59:57 AM
40	070827-1-040	CCB	1	Aug/27/07	12:01:47 PM
41	070827-1-041	7H27086-BLK1	1	Aug/27/07	2:13:38 PM
42	070827-1-042	7H27086-BS1	1	Aug/27/07	2:15:22 PM
43	070827-1-043	IQH1759-01	1	Aug/27/07	2:17:06 PM
44	070827-1-044	7H27086-MS1	1	Aug/27/07	2:18:50 PM
45	070827-1-045	7H27086-MSD1	1	Aug/27/07	2:20:35 PM
46	070827-1-046	IQH1759-02	1	Aug/27/07	2:22:21 PM
47	070827-1-047	IQH1759-03	1	Aug/27/07	2:24:07 PM
48	070827-1-048	IQH1759-04	1	Aug/27/07	2:25:53 PM
49	070827-1-049	IQH1759-05	1	Aug/27/07	2:27:40 PM
50	070827-1-050	IQH1759-06	1	Aug/27/07	2:29:27 PM
51	070827-1-051	CCV	1	Aug/27/07	2:31:16 PM
52	070827-1-052	CCB	1	Aug/27/07	2:33:06 PM
53	070827-1-053	IQH1759-07	1	Aug/27/07	2:34:55 PM
54	070827-1-054	IQH1759-08	1	Aug/27/07	2:36:43 PM
55	070827-1-055	IQH1759-09	1	Aug/27/07	2:38:32 PM
56	070827-1-056	IQH1759-10	1	Aug/27/07	2:40:22 PM
57	070827-1-057	IQH1759-11	1	Aug/27/07	2:42:08 PM
58	070827-1-058	IQH1759-12	1	Aug/27/07	2:43:50 PM
59	070827-1-059	IQH1759-13	1	Aug/27/07	2:45:33 PM
60	070827-1-060	IQH1759-14	1	Aug/27/07	2:47:17 PM
61	070827-1-061	IQH1759-15	1	Aug/27/07	2:49:00 PM
62	070827-1-062	IQH2331-11	1	Aug/27/07	2:50:45 PM
63	070827-1-063	CCV	1	Aug/27/07	2:52:32 PM

64	070827-1-064	CCB	1	Aug/27/07	2:54:22 PM
65	070827-1-065	IQH2331-12	1	Aug/27/07	2:56:09 PM
66	070827-1-066	IQH2402-01	1	Aug/27/07	2:57:54 PM
67	070827-1-067	IQH2441-11	1	Aug/27/07	2:59:40 PM
68	070827-1-068	IQH2451-03	1	Aug/27/07	3:01:26 PM
69	070827-1-069	0.2PPB	1	Aug/27/07	3:03:11 PM
70	070827-1-070	CCV	1	Aug/27/07	3:04:59 PM
71	070827-1-071	CCB	1	Aug/27/07	3:06:48 PM

MERCURY DIGESTION LOG (Solids)
Prep Method (Circle One): 7471 245.5

Analyst: DA

	Client	Sample ID	Sample Size (g)	Matrix	Aqua Regia (mL)	KMNO4 Add (mL)	NaCl Hydrx. (mL)	Final Volume (mL)	Comments
		Method Blank	5.0	W	5.0	12.4	5.0	50.0	T@95°C
		LCS 7080485	↓	↓					(8.0 ppb)
1	Brown &	IQH1759-01	0.5	S					
		MS							(8.0 ppb)
		SD							(8.0 ppb)
		Blank							
		0.2 ppb							
		1.0 ppb							
		5.0 ppb							
		10.0 ppb							
		15.0 ppb							
		ICV (2nd source)							(8.0 ppb)
		CCV							(4.0 ppb)
2	Brown &	IQH1759-02							
3		03							
4		04							
5		05							
6		06							
7		07							
8		08							
9		09							
10		10							
11		11							
12		12							
13		13							
14		14							
15		15							
16	Redline	IQH2451-03							
17	Wayne P	IQH2331-11							
18		12							
19		IQH2441-11							
20	BP Cars	IQH2402-01							

Matrix: S=Solid SL=Sludge F=Filter P=Paint W=Wipe O=Other
Vol. Spk Add LCS: 400 µl HgSod
Vol. Spk Add MS/SD: ↓
Std ID: 7080485

ICV 7080486

Date: 8-27-07
Batch: 7H27086

INITIAL AND CONTINUOUS CALIBRATION CHECK
EPA 245.1/7470A/7471A - MERCURY

CV-Hg2
Units: ug/L
RL: 0.2 MDL 0.1

ICV Spike: 8
CCV Spike: 4
Sequence: 070828-1-007

Analyte											
	labnumber:	ICV	ICB	0.2 PPB	CCV	CCB	CCV	CCB	CCV	CCB	CCV	CCB
	filename:	070828-1-007	070828-1-008	070828-1-009	070828-1-019	070828-1-020	070828-1-031	070828-1-032	070828-1-043	070828-1-044	070828-1-055	070828-1-056
	analyzed:	Aug/28/07	Aug/28/07	Aug/28/07	Aug/28/07	Aug/28/07	Aug/28/07	Aug/28/07	Aug/28/07	Aug/28/07	Aug/28/07	Aug/28/07
	time:	11:42:14 AM	11:44:01 AM	11:45:48 AM	12:04:31 PM	12:06:21 PM	12:25:56 PM	12:27:46 PM	12:47:10 PM	12:49:00 PM	1:08:41 PM	1:10:31 PM
Hg 253.7		7.8	-0.03	0.17	4.22	-0.04	4.39	-0.04	4.47	-0.05	4.54	-0.06
	Spike:	8			4		4		4		4	
	Rec (%):	98		85	106		110		112 OK		114 OK	
	Limits (%):	~~90-110~~ 80-120			90-110		90-110		90-110		90-110	

CCV	CCB	CCV	CCB	0.2PPB	CCV	CCB
070828-1-067	070828-1-068	070828-1-079	070828-1-080	070828-1-08	070828-1-086	070828-1-087
Aug/28/07	Aug/28/07	Aug/28/07	Aug/28/07	Aug/28/07	Aug/28/07	Aug/28/07
1:29:48 PM	1:31:37 PM	1:51:00 PM	1:52:50 PM	2:01:36 PM	2:03:23 PM	2:05:13 PM
4.54	-0.08	4.55	-0.09	0.14	4.55	-0.09
4		4		0.2	4	
114 OK		114 OK		70 —	114 OK	
90-110		90-110		50-150	90-110	

CV-HG2-070828-1-CCV

9/11/2007

RUN LOG

Intrument: *CV-Hg2*

Calib.file #: 070828-1 Calib. date: 8/28/2007

#	File_Name	Lab_Number	Dilution	Analyzed	Time
1	070828-1-001	Blank	1	Aug/28/07	11:30:32 AM
2	070828-1-002	0.2 ppb	1	Aug/28/07	11:32:16 AM
3	070828-1-003	1.0 ppb	1	Aug/28/07	11:34:01 AM
4	070828-1-004	5.0 ppb	1	Aug/28/07	11:35:47 AM
5	070828-1-005	10.0 ppb	1	Aug/28/07	11:37:34 AM
6	070828-1-006	15.0 ppb	1	Aug/28/07	11:39:22 AM
7	070828-1-007	ICV	1	Aug/28/07	11:42:14 AM
8	070828-1-008	ICB	1	Aug/28/07	11:44:01 AM
9	070828-1-009	0.2 PPB	1	Aug/28/07	11:45:48 AM
10	070828-1-010	7H28064-BLK1	1	Aug/28/07	11:48:30 AM
11	070828-1-011	7H28064-BS1	1	Aug/28/07	11:50:16 AM
12	070828-1-012	IQH2490-22	1	Aug/28/07	11:52:02 AM
13	070828-1-013	7H28064-MS1	1	Aug/28/07	11:53:49 AM
14	070828-1-014	7H28064-MSD1	1	Aug/28/07	11:55:36 AM
15	070828-1-015	IQH0716-22	1	Aug/28/07	11:57:25 AM
16	070828-1-016	IQH2308-01	1	Aug/28/07	11:59:15 AM
17	070828-1-017	IQH2308-02	1	Aug/28/07	12:01:02 PM
18	070828-1-018	IQH2325-03	1	Aug/28/07	12:02:45 PM
19	070828-1-019	CCV	1	Aug/28/07	12:04:31 PM
20	070828-1-020	CCB	1	Aug/28/07	12:06:21 PM
21	070828-1-021	IQH2479-01	1	Aug/28/07	12:08:09 PM
22	070828-1-022	IQH2479-03	1	Aug/28/07	12:09:53 PM
23	070828-1-023	IQH2479-06	1	Aug/28/07	12:11:38 PM
24	070828-1-024	IQH2490-23	1	Aug/28/07	12:13:23 PM
25	070828-1-025	IQH2490-24	1	Aug/28/07	12:15:09 PM
26	070828-1-026	IQH2490-25	1	Aug/28/07	12:16:57 PM
27	070828-1-027	7H28066-BLK1	1	Aug/28/07	12:18:44 PM
28	070828-1-028	7H28066-BS1	1	Aug/28/07	12:20:31 PM
29	070828-1-029	IQH1759-27	1	Aug/28/07	12:22:18 PM
30	070828-1-030	7H28066-MS1	1	Aug/28/07	12:24:07 PM
31	070828-1-031	CCV	1	Aug/28/07	12:25:56 PM
32	070828-1-032	CCB	1	Aug/28/07	12:27:46 PM
33	070828-1-033	7H28066-MSD1	1	Aug/28/07	12:29:35 PM
34	070828-1-034	IQH1759-16	1	Aug/28/07	12:31:24 PM
35	070828-1-035	IQH1759-17	1	Aug/28/07	12:33:13 PM
36	070828-1-036	IQH1759-19	1	Aug/28/07	12:34:59 PM
37	070828-1-037	IQH1759-20	1	Aug/28/07	12:36:42 PM
38	070828-1-038	IQH1759-21	1	Aug/28/07	12:38:25 PM
39	070828-1-039	IQH1759-22	1	Aug/28/07	12:40:09 PM
40	070828-1-040	IQH1759-23	1	Aug/28/07	12:41:53 PM
41	070828-1-041	IQH1759-24	1	Aug/28/07	12:43:37 PM
42	070828-1-042	IQH1759-25	1	Aug/28/07	12:45:22 PM
43	070828-1-043	CCV	1	Aug/28/07	12:47:10 PM
44	070828-1-044	CCB	1	Aug/28/07	12:49:00 PM
45	070828-1-045	IQH1759-26	1	Aug/28/07	12:50:48 PM
46	070828-1-046	IQH1759-28	1	Aug/28/07	12:52:34 PM
47	070828-1-047	IQH1759-29	1	Aug/28/07	12:54:20 PM
48	070828-1-048	IQH1759-30	1	Aug/28/07	12:56:08 PM
49	070828-1-049	IQH1759-31	1	Aug/28/07	12:57:55 PM
50	070828-1-050	IQH1759-32	1	Aug/28/07	12:59:43 PM
51	070828-1-051	IQH1759-33	1	Aug/28/07	1:01:31 PM
52	070828-1-052	IQH1759-34	1	Aug/28/07	1:03:20 PM
53	070828-1-053	IQH1759-35	1	Aug/28/07	1:05:10 PM
54	070828-1-054	IQH1759-36	1	Aug/28/07	1:06:55 PM
55	070828-1-055	CCV	1	Aug/28/07	1:08:41 PM
56	070828-1-056	CCB	1	Aug/28/07	1:10:31 PM
57	070828-1-057	0.2PPB	1	Aug/28/07	1:12:19 PM
58	070828-1-058	7H28067-BLK1	1	Aug/28/07	1:14:03 PM
59	070828-1-059	7H28067-BS1	1	Aug/28/07	1:15:46 PM
60	070828-1-060	IQH1759-40	1	Aug/28/07	1:17:28 PM
61	070828-1-061	7H28067-MS1	1	Aug/28/07	1:19:13 PM
62	070828-1-062	7H28067-MSD1	1	Aug/28/07	1:20:59 PM
63	070828-1-063	IQH1759-37	1	Aug/28/07	1:22:43 PM

64	070828-1-064	IQH1759-38	1	Aug/28/07	1:24:28 PM
65	070828-1-065	IQH1759-39	1	Aug/28/07	1:26:14 PM
66	070828-1-066	IQH1759-41	1	Aug/28/07	1:28:00 PM
67	070828-1-067	CCV	1	Aug/28/07	1:29:48 PM
68	070828-1-068	CCB	1	Aug/28/07	1:31:37 PM
69	070828-1-069	IQH1759-43	1	Aug/28/07	1:33:26 PM
70	070828-1-070	IQH1759-44	1	Aug/28/07	1:35:13 PM
71	070828-1-071	IQH1759-45	1	Aug/28/07	1:37:01 PM
72	070828-1-072	IQH1759-46	1	Aug/28/07	1:38:49 PM
73	070828-1-073	IQH1759-47	1	Aug/28/07	1:40:38 PM
74	070828-1-074	IQH1759-48	1	Aug/28/07	1:42:23 PM
75	070828-1-075	IQH1759-49	1	Aug/28/07	1:44:05 PM
76	070828-1-076	IQH1759-50	1	Aug/28/07	1:45:47 PM
77	070828-1-077	IQH1759-51	1	Aug/28/07	1:47:30 PM
78	070828-1-078	IQH1759-52	1	Aug/28/07	1:49:14 PM
79	070828-1-079	CCV	1	Aug/28/07	1:51:00 PM
80	070828-1-080	CCB	1	Aug/28/07	1:52:50 PM
81	070828-1-081	IQH1759-53	1	Aug/28/07	1:54:37 PM
82	070828-1-082	IQH1759-54	1	Aug/28/07	1:56:22 PM
83	070828-1-083	IQH1759-55	1	Aug/28/07	1:58:06 PM
84	070828-1-084	IQH1759-56	1	Aug/28/07	1:59:51 PM
85	070828-1-085	0.2PPB	1	Aug/28/07	2:01:36 PM
86	070828-1-086	CCV	1	Aug/28/07	2:03:23 PM
87	070828-1-087	CCB	1	Aug/28/07	2:05:13 PM
88	070828-1-088	7H28088-BLK1	1	Aug/28/07	2:46:34 PM
89	070828-1-089	7H28088-BS1	1	Aug/28/07	2:48:20 PM
90	070828-1-090	IQH2554-01	1	Aug/28/07	2:50:07 PM
91	070828-1-091	7H28088-MS1	1	Aug/28/07	2:51:54 PM
92	070828-1-092	7H28088-MSD1	1	Aug/28/07	2:53:42 PM
93	070828-1-093	IQH2553-01	1	Aug/28/07	2:55:29 PM
94	070828-1-094	IQH2553-02	1	Aug/28/07	2:57:14 PM
95	070828-1-095	IQH2554-02	1	Aug/28/07	2:58:57 PM
96	070828-1-096	CCV	1	Aug/28/07	3:00:44 PM
97	070828-1-097	CCB	1	Aug/28/07	3:02:34 PM
98	070828-1-098	CCB-	1	Aug/28/07	3:05:35 PM

MERCURY DIGESTION LOG (Solids)
Prep Method (Circle One) 7471 245.5

Analyst: DA

	Client	Sample ID	Sample Size (g)	Matrix	Aqua Regia (mL)	KMNO4 Add (mL)	NaCl Hydrx. (mL)	Final Volume (mL)	Comments
		Method Blank	5.0	W	5.0	12.4	5.0	50.0	T@95°C
		LCS 7080485	↓	↓					(8.0 ppb)
1	Brown &	IQH 1759-27	0.5	S					
		MS							(8.0 ppb)
		SD							(8.0 ppb)
		Blank							
		0.2 ppb							
		1.0 ppb							
		5.0 ppb							
		10.0 ppb							
		15.0 ppb							
		ICV (2nd source)							(8.0 ppb)
		CCV							(4.0 ppb)
2	Brown &	IQH1759-16							
3		17							
4		19							
5		20							
6		21							
7		22							
8		23							
9		24							
10		25							
11		26							
12		28							
13		29							
14		30							
15		31							
16		32							
17		33							
18		34							
19		35							
20		36							

Matrix: S=Solid SL=Sludge F=Filter P=Paint WI=Wipe O=Other
Vol. Spk Add LCS: 400µl HgStd
Vol. Spk Add MS/SD: ↓
Std ID: 7080485

Date: 8-28-01
Batch: 7H28066

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
17461 Derian Avenue. Suite 100, Irvine, CA 92614 (949) 261-1022 Fax:(949) 260-3297

LABORATORY REPORT

Prepared For: Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project: BP Yerington, NV Soils
132039

Sampled: 08/14/07-08/16/07
Received: 08/18/07
Issued: 09/06/07 13:00

NELAP #01108CA Nevada #CA-72

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the BPGCLN Technical Specifications, applicable federal, state, local regulations and certification requirements as well as the methodologies as described in laboratory SOPs reviewed by the BPGCLN. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 24 pages, are included and are an integral part of this report. This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

LABORATORY ID	CLIENT ID	MATRIX
IQH1759-01	BGS-A1-02S	Soil
IQH1759-02	BGS-A1-02D	Soil
IQH1759-03	BGS-A1-05S	Soil
IQH1759-04	BGS-A1-05D	Soil
IQH1759-05	BGS-A1-06S	Soil
IQH1759-06	BGS-A1-06D	Soil
IQH1759-07	BGS-A1-14S	Soil
IQH1759-08	BGS-A1-14D	Soil
IQH1759-09	BGS-A2-48S	Soil
IQH1759-10	BGS-A2-48D	Soil
IQH1759-11	BGS-A2-49S	Soil
IQH1759-12	BGS-A2-49D	Soil
IQH1759-13	BGS-A2-50S	Soil
IQH1759-14	BGS-A2-50D	Soil
IQH1759-15	BGS-A2-51S	Soil
IQH1759-16	BGS-A2-51D-1	Soil
IQH1759-17	BGS-A2-51D-2	Soil
IQH1759-18	BGS-A2-51E	Water
IQH1759-19	BGS-A2-53S	Soil
IQH1759-20	BGS-A2-53D	Soil
IQH1759-21	BGS-A2-54S	Soil
IQH1759-22	BGS-A2-54D	Soil
IQH1759-23	BGS-A2-55S	Soil

Level IV

FD

EB

TestAmerica - Irvine, CA

Patty Mata
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

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Brown and Caldwell - NV
3264 Goni Rd, Ste 153
Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington, NV Soils
132039
Report Number: IQH1759

Sampled: 08/14/07-08/16/07
Received: 08/18/07

LABORATORY ID	CLIENT ID	MATRIX
IQH1759-24	BGS-A2-55D	Soil
IQH1759-25	BGS-A2-56S	Soil
IQH1759-26	BGS-A2-56D	Soil
IQH1759-27	BGS-A2-57S	Soil
IQH1759-28	BGS-A2-57D	Soil
IQH1759-29	BGS-A2-58S EB (BGS-A2-51E)	Soil
IQH1759-30	BGS-A2-58D	Soil
IQH1759-31	BGS-A2-59S	Soil
IQH1759-32	BGS-A2-59D	Soil
IQH1759-33	BGS-A2-60S	Soil
IQH1759-34	BGS-A2-60D	Soil
IQH1759-35	BGS-A2-65S	Soil
IQH1759-36	BGS-A2-65D	Soil
IQH1759-37	BGS-A2-66S	Soil
IQH1759-38	BGS-A2-66D-1 FD	Soil
IQH1759-39	BGS-A2-66D-2	Soil
IQH1759-40	BGS-A2-67S	Soil
IQH1759-41	BGS-A2-67D	Soil
IQH1759-42	FB BGS-A2-67F	Water
IQH1759-43	BGS-A2-68S	Soil
IQH1759-44	BGS-A2-68D	Soil
IQH1759-45	BGS-A2-69S	Soil
IQH1759-46	BGS-A2-69D	Soil
IQH1759-47	BGS-A2-70S	Soil
IQH1759-48	BGS-A2-70D	Soil
IQH1759-49	BGS-A2-71S	Soil
IQH1759-50	BGS-A2-71D	Soil
IQH1759-51	BGS-A2-72S	Soil
IQH1759-52	BGS-A2-72D	Soil
IQH1759-53	BGS-A2-73S	Soil
IQH1759-54	BGS-A2-73D	Soil
IQH1759-55	BGS-A2-74S	Soil
IQH1759-56	BGS-A2-74D	Soil
IQH1759-57	EB BGS-A2-74E	Water

L4

Reviewed By:

TestAmerica - Irvine, CA

Patty Mata
Project Manager

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THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

Client:	Brown and Caldwell	**Date Sampled:**	8/14/2007 to 8/16/2007
Project:	BP Yerington, NV Soils 132039	**Date Received:**	8/18/2007
Lab:	IQH1759		

SAMPLE RECEIPT: Samples were received intact, on ice, and with chain of custody numbers YERS000230, YERS000236, YERS000238, YERS000254, YERS000322, YERS000324, YERS000326, YERS000328, YERS000332, YERS000334, YERS000336, YERS000338, YERS000340, YERS000342, YERS000344, YERS000346, YERS000356, YERS000358, YERS000360, YERS000362, YERS000364, YERS000366, YERS000368, and YERS0000. The sample temperature was measured at 6° C upon receipt at the laboratory.

HOLDING TIMES: All samples were analyzed within holding times.

PROBLEMS ENCOUNTERED: No problems were encountered.

QA/QC CRITERIA: Calcium was detected in the Method Blank of batch 7H27111. Analyte concentration in the samples was greater than 10 times the concentration in the Method Blank.

Calcium was detected in the Method Blank of batch 7H20140.

Magnesium was detected in the Method Blank of batch 7H20140.

Potassium was detected in the Method Blank of batch 7H20140.

Sodium was detected in the Method Blank of batch 7H20140.

Calcium was detected in the Method Blank of batch 7H21073.

Magnesium was detected in the Method Blank of batch 7H21073.

Calcium was detected in the Method Blank of batch 7H31109.

Chromium was detected in the Method Blank of batch 7H24146.

Zinc was detected in the Method Blank of batch 7H28132.

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THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

Client:	Brown and Caldwell	**Date Sampled:**	8/14/2007 to 8/16/2007
Project:	BP Yerington, NV Soils 132039	**Date Received:**	8/18/2007
Lab:	IQH1759		

QA/QC CRITERIA: (Continued)

The MS and/or MSD recoveries for Sodium were above acceptance limits due to sample matrix interference for EPA 6010B QC batch 7H20140. See LCS.

The MS and/or MSD recoveries for Manganese were above acceptance limits due to sample matrix interference for EPA 6010B QC batch 7H21073. See LCS.

The MS and/or MSD recoveries for Antimony were below acceptance limits due to sample matrix interference for EPA 6010B QC batch 7H21073. See LCS.

The MS and/or MSD recoveries for Arsenic, Barium, Chromium, Copper, Molybdenum, Selenium, Vanadium, and Zinc were below acceptance limits due to sample matrix interference for EPA 6020 QC batch 7H28132. See LCS.

Due to high levels of Aluminum, Calcium, Iron, Magnesium, and Potassium in the source, sample 7H20140-MS1 does not provide useful spike recovery information for EPA 6010B QC batch 7H20140. See LCS.

Due to high levels of Aluminum, Calcium, Iron, Magnesium, and Potassium in the source, sample 7H20140-MSD1 does not provide useful spike recovery information for EPA 6010B QC batch 7H20140. See LCS.

Due to high levels of Aluminum, Calcium, Iron, Magnesium, and Potassium in the source, sample 7H21073-MS1 does not provide useful spike recovery information for EPA 6010B QC batch 7H21073. See LCS.

Due to high levels of Aluminum, Calcium, Iron, Magnesium, and Potassium in the source, sample 7H21073-MSD1 does not provide useful spike recovery information for EPA 6010B QC batch 7H21073. See LCS.

Due to high levels of Calcium in the source, sample 7H31109-MS1 does not provide useful spike recovery information for EPA 6010B QC batch 7H31109. See LCS.

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THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

Client:	Brown and Caldwell	**Date Sampled:**	8/14/2007 to 8/16/2007
Project:	BP Yerington, NV Soils 132039	**Date Received:**	8/18/2007
Lab:	IQH1759		

QA/QC CRITERIA: (Continued)

Due to high levels of Calcium in the source, sample 7H31109-MSD1 does not provide useful spike recovery information for EPA 6010B QC batch 7H31109. See LCS.

OBSERVATIONS:

Results that fall between the MDL and RL are 'J' flagged.

This data package includes raw data for samples IQH1759-01 through –20, and IQH1759-25 through –34.

Beryllium, Cadmium, Molybdenum, Nickel, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-01.

Arsenic, Beryllium, Cadmium, Chromium, Molybdenum, Nickel, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-02.

Arsenic, Beryllium, Cadmium, Chromium, Molybdenum, Nickel, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-03.

Arsenic, Beryllium, Cadmium, Chromium, Molybdenum, Nickel, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-04.

Arsenic, Beryllium, Cadmium, Chromium, Molybdenum, Nickel, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-05.

Beryllium, Cadmium, Chromium, Molybdenum, Nickel, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-06.

Arsenic, Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-07.

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THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

Client:	Brown and Caldwell	**Date Sampled:**	8/14/2007 to 8/16/2007
Project:	BP Yerington, NV Soils 132039	**Date Received:**	8/18/2007
Lab:	IQH1759		

OBSERVATIONS: (Continued)

Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-08.

Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-09.

Arsenic, Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-10.

Arsenic, Beryllium, Cadmium, Molybdenum, Nickel, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-11.

Beryllium, Cadmium, Chromium, Molybdenum, Nickel, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-12.

Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-13.

Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-14.

Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-15.

Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-16.

Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-17.

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THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

Client:	Brown and Caldwell	**Date Sampled:**	8/14/2007 to 8/16/2007
Project:	BP Yerington, NV Soils 132039	**Date Received:**	8/18/2007
Lab:	IQH1759		

OBSERVATIONS: (Continued)

Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-19.

Beryllium, Cadmium, Chromium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-20.

Arsenic, Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-25.

Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-26.

Arsenic, Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-27.

Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-28.

Arsenic, Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-29.

Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-30.

Arsenic, Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-31.

Arsenic, Beryllium, Cadmium, Chromium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-32.

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THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

Client:	Brown and Caldwell	**Date Sampled:**	8/14/2007 to 8/16/2007
Project:	BP Yerington, NV Soils 132039	**Date Received:**	8/18/2007
Lab:	IQH1759		

OBSERVATIONS: (Continued)

Arsenic, Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-33.

Beryllium, Cadmium, Molybdenum, Selenium, Silver, Thallium, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IQH1759-34.

TestAmerica - Irvine, CA

Patty Mata
Project Manager
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BROWN AND CALDWELL

CHAIN OF CUSTODY RECORD

COC No YERS000230

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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 9
Phoenix, AZ 85004
602-567-4000 / FAX 602-567-4001

PROJECT NAME: Yerington Mine Site
PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

1QH1759

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-A1-02S	8/15/07	0945	PB	1	~~4 oz Glass~~ 9oz plast.	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A		M			----0.1 / 0.5	
02	BGS-A1-02D	↓	↓	↓	1	~~4 oz Glass~~ ↓	~~NONE~~ ↓	S	SW6010B, SW6020, SW7471A					----2 / 3	
03														----	
04														----	
05														----	
06														----	
07														----	
08														----	
09														----	
10														----	

COLLECTED & RELEASED BY: Henry Barrett	DATE 8/17/07	TIME 1430	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	EC 8-20-07 0600
				CELLR	6975	
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.

6.0°C

BROWN AND CALDWELL

CHAIN OF CUSTODY RECORD

COC No YERS000236

☐ 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 702-938-4083

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

PROJECT NAME: Yerington Mine Site

PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

LINE NO.	SAMPLE – I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESER-VATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC – REQ	TAT	SAMPLING METHOD	DEPTH (FT.) BEGIN / END	PID READING (ppm)
01	BGS-A1-05S	8-15-07	08 30	PB	1	~~4 oz Glass~~ 9oz plast	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A					0.1 / 0.8	
02	BGS-A1-05D	↓	↓	↓	1	~~4 oz Glass~~ ↓	~~NONE~~ ↓	S	SW6010B, SW6020, SW7471A					2 / 3	
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COLLECTED & RELEASED BY: Penny Bassett	DATE 8/17/07	TIME 1430	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	
			[signature]	09/18	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109
COURIER:			SHIPPING NUMBER:			

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

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BROWN AND CALDWELL

CHAIN OF CUSTODY RECORD

COC No. YERS000238

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

☐ 201 East Washington Street / Suite 400
Phoenix, AZ 85004
602-567-4000 / FAX 602-567-4001

PROJECT NAME: Yerington Mine Site

PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

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-A1-06S	8-15-07	10:45	PB	1	~~4 oz Glass~~ 9oz plast.	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A					0.1 / 0.8	
02	BGS-A1-06D	↓	↓	↓	1	~~4 oz Glass~~ ↓	~~NONE~~ ↓	S	SW6010B, SW6020, SW7471A					2 / 3	
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COLLECTED & RELEASED BY: Penny Bassett	DATE 8/17/07	TIME 1430	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	
				08/18	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109
COURIER:			SHIPPING NUMBER:			

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

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CHAIN OF CUSTODY RECORD

COC No. YERS000254

2264 Goni Road / Suite 153
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775-883-4118 FAX 775-883-5108

4425 W. Spring Mountain Road / Suite 225
Las Vegas, NV 89102
702-838-3889 FAX 702-838-3889

201 East Washington Street / Suite 800
Phoenix, AZ 85004
602-567-4000 FAX 602-567-4001

PROJECT NAME: Yerington Mine Site

PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

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-A1-14S	8-15-07	0730	PB	1	~~4 oz Glass~~ 9oz plast.	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A					0.1 / 0.8	
02	BGS-A1-14D	↓	↓	↓	1	~~4 oz Glass~~ ↓	~~NONE~~ ↓	S	SW6010B, SW6020, SW7471A					2 / 3	
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COLLECTED & RELEASED BY: Penny Barrett	DATE 8/17/07	TIME 14:30	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	
			[signature]	08/18	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109
COURIER:			SHIPPING NUMBER:			

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CHAIN OF CUSTODY RECORD

COC No YERS000322

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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 300
Phoenix, AZ 85004
602-567-4000 / FAX 602-567-4001

PROJECT NAME: Yerington Mine Site
PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: ~~TESTAMERICA, INC., IRVINE, CA~~

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-A2-48S	8/14/07	1400	PB	1	~~4 oz Glass~~ 9 oz plastic	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A					----0.1	
02	BGS-A2-48D	↓	↓	↓	1	~~4 oz Glass~~ ↓	~~NONE~~ ↓	S	SW6010B, SW6020, SW7471A					0.6 ----2	
03														3 ----	
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COLLECTED & RELEASED BY: Penny Barrett	DATE 8/17/07	TIME 14:30	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	
						Level 4
			[signature]	08/18	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109
COURIER:			SHIPPING NUMBER:			

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

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CHAIN OF CUSTODY RECORD

COC No YERS000324

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775-883-4118 FAX 775-883-8108

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Las Vegas, NV 89102
702-938-4080 FAX 702-938-4082

☐ 201 East Washington Street / Suite 200
Phoenix, AZ 85004
602-567-4000 / FAX 602-567-4001

PROJECT NAME: Yerington Mine Site
PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

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	~~4 oz Glass~~ 9oz plastic	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A					0.1 / 0.8	
02	BGS-A2-49D	↓	↓	↓	1	~~4 oz Glass~~ ↓	~~NONE~~ ↓	S	SW6010B, SW6020, SW7471A					2 / 3	
03														----	
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COLLECTED & RELEASED BY: Penny Bassett	DATE 8/17/07	TIME 1430	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	
						Level 4
			[signature]	8/18	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109
COURIER:			SHIPPING NUMBER:			

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CHAIN OF CUSTODY RECORD

COC No. YERS000326

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Las Vegas, NV 89102
702-938-4080 FAX 702-938-4082

☐ 201 East Washington Street / Suite 1000
Phoenix, AZ 85004
602-567-4000 FAX 602-567-4001

PROJECT NAME: Yerington Mine Site
PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: TESTAMERICA, INC IRVINE, CA

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-A2-50S	8/14/07	12:30	PB	1	~~4 oz Glass~~ 9oz plastic	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A					0.1 / 0.8	
02	BGS-A2-50D	↓	↓	↓	1	~~4 oz Glass~~ ↓	~~NONE~~ ↓	S	SW6010B, SW6020, SW7471A					2 / 3	
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COLLECTED & RELEASED BY: Penny Bassett	DATE 8/17/07	TIME 14:30	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	Level 4
			[signature]	08/18	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001KF - 0109
COURIER:			SHIPPING NUMBER:			

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

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CHAIN OF CUSTODY RECORD

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Carson City, NV 89706
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☐ 4425 W. Spring Mountain Road / Suite 225
Las Vegas, NV 89102
702-938-4080 / FAX 702-938-4083

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

YERS000328

PROJECT NAME: Yerington Mine Site
PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

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-A2-51S	8/14/07	15:00	PB	1	~~4 oz Glass~~ 9oz plast.	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A					----0.1	
02	BGS-A2-51D-1	↓	↓	↓	1	~~4 oz Glass~~	~~NONE~~	S	SW6010B, SW6020, SW7471A					~~0.1~~ ----2	
03	BGS-A2-51D-2	↓	↓	↓	1	~~4 oz Glass~~	~~NONE~~	S	SW6010B, SW6020, SW7471A					~~3~~ ----2	
04	BGS-A2-51E	↓	↓	↓	1	500 ml plastic	HNO3	W	" "					~~3~~ ----	
05														----	
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07														----	
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COLLECTED & RELEASED BY: Penny Bassett	DATE 8/17/07	TIME 1430	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	Level 4
				08/18	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109
COURIER:			SHIPPING NUMBER:			

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CHAIN OF CUSTODY RECORD

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775-883-4118 FAX 775-883-5108

☐ 1425 W Spring Mountain Road Suite 225
Las Vegas, NV 89102
702-938-4086 FAX 702-938-4082

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

YERS000332

PROJECT NAME: Yerington Mine Site
PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

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-A2-53S	8-15-07	12:30	PB	1	~~4 oz Glass~~ 9 oz plast.	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A					0.1 / 0.8	
02	BGS-A2-53D	↓	↓	↓	1	~~4 oz Glass~~ ↓	~~NONE~~ ↓	S	SW6010B, SW6020, SW7471A					2 / 3	
03														----	
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COLLECTED & RELEASED BY: Penny Bassett	DATE 8/17/07	TIME 1430	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	
			[signature]	08/18	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001 KF-0109
COURIER:			SHIPPING NUMBER:			

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

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CHAIN OF CUSTODY RECORD

COC No. _____

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Las Vegas, NV 89102
702-938-4080 / FAX 702-938-4082

☐ 201 East Washington Street / Suite 500
Phoenix, AZ 85004
602-567-4000 / FAX 602-567-4091

YERS000334

PROJECT NAME: Yerington Mine Site
PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

LINE NO.	SAMPLE – I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESER-VATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC – REQ	TAT	SAMPLING METHOD	DEPTH (FT.) BEGIN / END	PID READING (ppm)
01	BGS-A2-54S	8-15-07	1315	PB	1	~~4 oz Glass~~ 9 oz plast	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A					---- 0.1 / 0.5	
02	BGS-A2-54D	↓	↓	↓	1	~~4 oz Glass~~ ↓	~~NONE~~ ↓	S	SW6010B, SW6020, SW7471A					---- 2 / 3	
03														----	
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COLLECTED & RELEASED BY: Penny Basu	DATE 8/17/07	TIME 14:30	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	
			[signature]	08/10	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109
COURIER:			SHIPPING NUMBER:			

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CHAIN OF CUSTODY RECORD

COC No. YERS000336

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702-938-4080 / FAX 702-938-4082

☐ 201 East Washington Street / Suite 400
Phoenix, AZ 85004
602-567-4000 / FAX 602-567-4001

PROJECT NAME: Yerington Mine Site
PROJECT NUMBER: 132039
LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

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-A2-55S	3-15-07	1345	PB	1	~~4 oz Glass~~ 9oz plast.	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A					0.1 / 0.8	
02	BGS-A2-55D	↓	↓	↓	1	~~4 oz Glass~~ ↓	~~NONE~~ ↓	S	SW6010B, SW6020, SW7471A					2 / 3	
03														----	
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COLLECTED & RELEASED BY: Penny Bassett	DATE 3/17/07	TIME 14:30	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	
				6/18	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109
COURIER:			SHIPPING NUMBER:			

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

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CHAIN OF CUSTODY RECORD

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702-938-4080 / FAX 702-938-4082

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

YERS000338

PROJECT NAME: Yerington Mine Site
PROJECT NUMBER: 132039
LABORATORY NAME & ADDRESS: TESTAMERICA, INC - IRVINE, CA

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-A2-56S	8/14/07	10:45	PB	1	~~4 oz Glass~~ 9oz plastic	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A					----0.1	
02	BGS-A2-56D	↓	↓	↓	1	~~4 oz Glass~~ ↓	~~NONE~~ ↓	S	SW6010B, SW6020, SW7471A					----2	
03														----	
04														----	
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COLLECTED & RELEASED BY: Penny Bassett	DATE 8/17/07	TIME 14:30	COOLER I.D.:		COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :
					Level 4
				08/18	0935
RECORD RETURNED BY:	DATE / /	TIME :			001KF-0109
COURIER:			SHIPPING NUMBER:		

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

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CHAIN OF CUSTODY RECORD

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702-938-4080 / FAX 702-938-4082

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

YERS000340

PROJECT NAME: Yerington Mine Site
PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

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-A2-57S	8/14/07	09:15	PB	1	9 oz plastic ~~4 oz Glass~~	4°C ~~NONE~~	S	SW6010B, SW6020, SW7471A					---- 0.1 / 0.8	
02	BGS-A2-57D	↓	↓	↓	1	4 ~~oz Glass~~	~~NONE~~	S	SW6010B, SW6020, SW7471A					---- 2 / 3	
03														----	
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COLLECTED & RELEASED BY: Penny Bassett	DATE 8/17/07	TIME 14:30	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	
						Level 4
				8/14	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001 KF-0109
COURIER:			SHIPPING NUMBER:			

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BROWN AND CALDWELL

CHAIN OF CUSTODY RECORD

COC No. _____

YERS000342

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

PROJECT NAME: Yerington Mine Site

PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

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-A2-58S	8/14/07	8:30	PB	1	~~4 oz Glass~~ 9oz plastic	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A					0.1 / 0.8	
02	BGS-A2-58D	↓	↓	↓	1	~~4 oz Glass~~	~~NONE~~	S	SW6010B, SW6020, SW7471A					2 / 3	
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COLLECTED & RELEASED BY: Penny Bassett	DATE 8/17/07	TIME 14:30	COOLER I.D.:			COMMENTS (see note on back):	
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	Level 4	
			[signature]	8/18	0935		
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109	
COURIER:			SHIPPING NUMBER:				

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CHAIN OF CUSTODY RECORD

COC No _____

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Phoenix, AZ 85004
602-567-4000 · FAX 602-567-4001

YERS000344

PROJECT NAME: Yerington Mine Site
PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

LINE NO.	SAMPLE – I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESER-VATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC – REQ	TAT	SAMPLING METHOD	DEPTH (FT.) BEGIN - - - - END	PID READING (ppm)
01	BGS-A2-59S	8/14/07	0800	PB	1	~~4 oz Glass~~ 9oz plastic	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A					----0.1	
02	BGS-A2-59D	↓	↓	↓	1	~~4 oz Glass~~	~~NONE~~	S	SW6010B, SW6020, SW7471A					0.8 ----2	
03														3 ----	
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COLLECTED & RELEASED BY: Penny Bassett	DATE 8/17/07	TIME 14:30	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	Level 4
				8/16	0935	ENFOS Billing Acct No. 001KF-0109
RECORD RETURNED BY:	DATE / /	TIME :				
COURIER:			SHIPPING NUMBER:			

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#370

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BROWN AND CALDWELL

CHAIN OF CUSTODY RECORD

COC No._____

YERS000346

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702-938-4080 / FAX 702-938-4083

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

PROJECT NAME: Yerington Mine Site

PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

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-A2-60S	8/14/07 EC	10:15 EC		1	~~4 oz Glass~~ 9 oz plastic	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A					0.1 / 0.8	
02	BGS-A2-60D	↓	↓		1	~~4 oz Glass~~ ↓	~~NONE~~ ↓	S	SW6010B, SW6020, SW7471A					2 / 3	
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COLLECTED & RELEASED BY: Penny Baxter	DATE 8/17/07	TIME 1430	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	Level 4
			[signature]	08/18	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109
COURIER:			SHIPPING NUMBER:			

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CHAIN OF CUSTODY RECORD

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702-938-4080 / FAX 702-938-4082

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

PROJECT NAME: Yerington Mine Site

PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

LINE NO.	SAMPLE – I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESER-VATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC – REQ	TAT	SAMPLING METHOD	DEPTH (FT.) BEGIN / END	PID READING (ppm)
01	BGS-A2-65S	8-15-07	1445	PB	1	~~1 oz Glass~~ 9oz plast.	~~NONE~~ 4°C	SS	SW6010B, SW6020, SW7471A					----0.1 / 0.5	
02	BGS-A2-65D	↓	↓	↓	1	~~1 oz Glass~~ ↓	~~NONE~~ ↓	SS	SW6010B, SW6020, SW7471A					----2 / 3	
03														----	
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COLLECTED & RELEASED BY: Penny Barrett	DATE 8/17/07	TIME 14:30	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	
			[signature]	08/18	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109
COURIER:			SHIPPING NUMBER:			

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CHAIN OF CUSTODY RECORD

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VERS000358

PROJECT NAME: Yerington Mine Site
PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

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/HEADING (ppm)
01	BGS-A2-66S	8-16-07	0715	PB	1	~~4 oz Glass~~ 9 oz plast	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A					----0.1 0.1	
02	BGS-A2-66D-1	↓	↓	↓	1	~~4 oz Glass~~	~~NONE~~	S	SW6010B, SW6020, SW7471A					----2 3	
03	BGS-A2-66D-2	↓	↓	↓	1	~~4 oz Glass~~	~~NONE~~	S	SW6010B, SW6020, SW7471A					----2 3	
04														----	
05														----	
06														----	
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08														----	
09														----	
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COLLECTED & RELEASED BY: Penny Bassett	DATE 8/17/07	TIME 1430	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	
			[signature]	08/18	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109
COURIER:			SHIPPING NUMBER:			

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Phoenix, AZ 85004
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YERS000360

PROJECT NAME: Yerington Mine Site

PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

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	PURGING (gpm)
01	BGS-A2-67S	8-16-07	0800	PB	1	~~4 oz Glass~~ 9 oz plast	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A		M			----0.1 0.1	
02	BGS-A2-67D	↓	↓	↓	1	~~4 oz Glass~~ ↓	~~NONE~~ ↓	S	SW6010B, SW6020, SW7471A					----2 3	
03	BGS-A2-67F	↓	↓	↓	1	500 ml plastic	HNO_3	W	" "					----	
04														----	
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COLLECTED & RELEASED BY: Penny Bassett	DATE 8/17/07	TIME 1430	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	
				8/16	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109
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702-938-4080 FAX 702-938-4082

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

NERS000362

PROJECT NAME: Yerington Mine Site

PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

LINE NO.	SAMPLE – I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESER-VATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC - REQ	TAT	SAMPLING METHOD	DEPTH (FT.) BEGIN / END	FID READING (ppm)
01	BGS-A2-68S	8-16-07	0845	PB	1	~~4 oz Glass~~ 9 oz plast	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A					0.1 / 0.8	
02	BGS-A2-68D	↓	↓	↓	1	~~4 oz Glass~~ ↓	~~NONE~~ ↓	S	SW6010B, SW6020, SW7471A					2 / 3	
03														----	
04														----	
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COLLECTED & RELEASED BY: Penny Bassett	DATE 8/17/07	TIME 14:30	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	
				05/18	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109
COURIER:			SHIPPING NUMBER:			

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CHAIN OF CUSTODY RECORD

COC No

YERS000364

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702-938-4080 / FAX 702-938-4085

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

PROJECT NAME: Yerington Mine Site

PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: ~~TESTAMERICA, INC., IRVINE, CA~~

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-A2-69S 8-16-07	09:30	PB	1	~~4 oz Glass~~ 9 oz plast	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A						----0.1	
02	BGS-A2-69D	↓	↓	↓	1	~~4 oz Glass~~ ↓	~~NONE~~ ↓	S	SW6010B, SW6020, SW7471A					0.1 ----2	
03														2 ---- 3	
04														----	
05														----	
06														----	
07														----	
08														----	
09														----	
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COLLECTED & RELEASED BY: Penny Barnett	DATE 8/17/07	TIME 1430	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	
			[signature]	8/18	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109
COURIER:			SHIPPING NUMBER:			

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CHAIN OF CUSTODY RECORD

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Phoenix, AZ 85004
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YERS000366

PROJECT NAME: Yerington Mine Site

PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

LINE NO.	SAMPLE – I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESER-VATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC – REQ	TAT	SAMPLING METHOD	DEPTH (FT.) BEGIN / END	PID READING (ppm)
01	BGS-A2-70S	8-16-07	10:45	PB	1	~~4 oz Glass~~ 9oz plast	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A					----0.1 / 0.5	
02	BGS-A2-70D	↓	↓	↓	1	~~4 oz Glass~~ ↓	~~NONE~~ ↓	S	SW6010B, SW6020, SW7471A					----2 / 3	
03														----	
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COLLECTED & RELEASED BY: Penny Bassett	DATE 8/17/07	TIME 14:30	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	
				08/18	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109
COURIER:			SHIPPING NUMBER:			

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CHAIN OF CUSTODY RECORD

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702-938-4080 / FAX 702-938-4081

☐ 201 East Washington Street / Suite 200
Phoenix, AZ 85004
602-567-4000 / FAX 602-567-4001

PROJECT NAME: Yerington Mine Site
PROJECT NUMBER: 132039
LABORATORY NAME & ADDRESS: TESTAMERICA, INC., IRVINE, CA

LINE NO.	SAMPLE – I.D.	COLLECTION DATE	COLLECTION TIME	SAMPLER'S INITIALS	NUMBER OF CONTAINERS	CONTAINER SIZE AND TYPE	PRESER-VATIVE	MATRIX CODE	ANALYSES REQUESTED	FIELD FILTERED	QC – REQ	TAT	SAMPLING METHOD	DEPTH (FT.) BEGIN / END	PID READING (ppm)
01	BGS-A2-71S	8-16-07	10:15	PB	1	~~4 oz Glass~~ 9oz plast	~~NONE~~ 4°C	S	SW6010B, SW6020, SW7471A					----0. 0.1	
02	BGS-A2-71D	↓	↓	↓	1	~~4 oz Glass~~ ↓	~~NONE~~ ↓	S	SW6010B, SW6020, SW7471A					----2 3	
03														----	
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COLLECTED & RELEASED BY: Penny Bassett	DATE 8/17/07	TIME 1430	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	
				08/18	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109
COURIER:			SHIPPING NUMBER:			

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CHAIN OF CUSTODY RECORD

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Carson City, NV 89706
[illegible] FAX [illegible]

1125 N. Spring Mountain Road / Suite 4[illegible]
Las Vegas, NV 89102
702-938-4080 / FAX 702-938-4087

201 East Washington Street / Suite [illegible]
Phoenix, AZ 85004
602-567-4000 / FAX 602-567-4009

PROJECT NAME: Yerington
PROJECT NUMBER: 132039

LABORATORY NAME & ADDRESS: Test America Irvine

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-A2-72S	8-16-07	12:15	PB	1	9 oz plastic	4°C ~~None~~	S	Metals (6010, 6020, 7471)					----	
02	BGS-A2-72D	↓	↓	↓	1	↓	↓	S	↓					----	
03	BGS-A2-73S		13:30		1			S						----	
04	BGS-A2-73D		↓		1			S						----	
05	BGS-A2-74S		1400		1			S						----	
06	BGS-A2-74D	↓	↓	↓	1	↓	↓	S	↓					----	
07	BGS-A2-74E	↓	1500		1	500 ml plastic	HNO_3	W	↓					----	
08														----	
09														----	
10														----	

COLLECTED & RELEASED BY: Penny Bassett	DATE 8/17/07	TIME 14:30	COOLER I.D.:			COMMENTS (see note on back):
RECEIVED BY:	DATE / /	TIME :	RELINQUISHED BY:	DATE / /	TIME :	
			[signature]	08/18	0935	
RECORD RETURNED BY:	DATE / /	TIME :				001KF-0109
COURIER:			SHIPPING NUMBER:			

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