ENVIRONMENTAL STANDARDS
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February 11, 2009

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 October 8, 9, 12, 15, and 16, 2008, 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 boron in two samples were rejected due to very low matrix spike/matrix spike duplicate recoveries. The results for mercury in several samples were qualified as "not-detected" due to blank contamination. The results for antimony, arsenic, barium, beryllium, boron, chromium, cobalt, copper, manganese, molybdenum, nickel, mercury, potassium, selenium, silicon, sodium, thallium, vanadium, and zinc in several samples were qualified as estimated due to out-of-criteria matrix spike/matrix spike duplicate recoveries. The results for boron, manganese, silicon, aluminum, calcium, iron, and magnesium in several samples were qualified as estimated due to out-of-criteria matrix spike/matrix spike duplicate precision. The results for boron in two samples were qualified as estimated due to a low reporting limit standard recovery. The results for arsenic, chromium, lead, thallium, and mercury in a few 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/
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Concurred by:

Rock J. Vitale, CEAC, CPC
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ENVIRONMENTAL STANDARDS
Setting the Standards for Innovative Environmental Solutions

QUALITY ASSURANCE REVIEW

OF THE SOIL SAMPLES COLLECTED

AT THE ARCO YERINGTON MINE SITE

ON OCTOBER 8, 9, 12, 15, AND 16, 2008

February 11, 2009

Prepared for:

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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 October 8, 9, 12, 15, and 16, 2008, 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
OU4-UEP-08A-SC	IRJ1092-01	IRJ1092	Soil	10/8/08	M^1, M^2, Hg
OU4-UEP-08A-SCMS (Matrix Spike)	8J18048-MS1 8J18049-MS1	IRJ1092	Soil	10/8/08	M^1 M^2
OU4-UEP-08A-SCMSD (Matrix Spike Duplicate)	8J18048-MSD1 8J18049-MSD1	IRJ1092	Soil	10/8/08	M^1 M^2
OU4-UEP-08A-SC-FD (Field Duplicate of OU4-UEP-08A-SC)	IRJ1092-02	IRJ1092	Soil	10/8/08	M^1, M^2, Hg
OU4-UEP-08B-SC	IRJ1092-03	IRJ1092	Soil	10/8/08	M^1, M^2, Hg
OU4-UEP-08B-SC-FD (Field Duplicate of OU4-UEP-08B-SC)	IRJ1092-04	IRJ1092	Soil	10/8/08	M^1, M^2, Hg
OU4-UEP-11B-SC	IRJ1092-05	IRJ1092	Soil	10/9/08	M^1, M^2, Hg
OU4-UEP-11A-SC	IRJ1092-06	IRJ1092	Soil	10/9/08	M^1, M^2, Hg
OU4-UEP-10A-SC	IRJ1353-01	IRJ1353	Soil	10/12/08	M^1, M^2, Hg
OU4-UEP-10A-SCMS (Matrix Spike)	8J27132-MS1	IRJ1353	Soil	10/12/08	Sb
OU4-UEP-10A-SCMSD (Matrix Spike Duplicate)	8J27132-MSD1	IRJ1353	Soil	10/12/08	Sb
OU4-UEP-10B-SC	IRJ1353-02	IRJ1353	Soil	10/12/08	M^1, M^2, Hg
OU4-FEP-13A-SC	IRJ1353-03	IRJ1353	Soil	10/12/08	M^1, M^2, Hg
OU4-FEP-13A-SCMS (Matrix Spike)	8J25010-MS1 8J25009-MS1	IRJ1353	Soil	10/12/08	M^1 M^2
OU4-FEP-13A-SCMSD (Matrix Spike Duplicate)	8J25010-MSD1 8J25009-MSD1	IRJ1353	Soil	10/12/08	M^1 M^2
OU4-FEP-13B-SC	IRJ1353-04	IRJ1353	Soil	10/12/08	M^1, M^2, Hg
OU4-UEP-36A-SC	IRJ1929-01	IRJ1929	Soil	10/15/08	M^1, M^2, Hg
OU4-UEP-36A-SCMS (Matrix Spike)	8J25060-MS1 8J25063-MS1 8J23094-MS1 8J26028-MS1	IRJ1929	Soil	10/15/08	M^1 M^2 Hg Sb

TABLE 1 (Cont.)

Field Sample Identification	Laboratory Sample Identification(s)	Project Number	Matrix	Date Sample Collected	Parameter(s) Examined
OU4-UEP-36A-SCMSD (Matrix Spike Duplicate)	8J25060-MSD1 8J25063-MSD1 8J23094-MSD1 8J26028-MSD1	IRJ1929	Soil	10/15/08	M^1 M^2 Hg Sb
OU4-UEP-36B-SC	IRJ1929-02	IRJ1929	Soil	10/15/08	M^1, M^2, Hg
OU4-UEP-37A-SC	IRJ1929-03	IRJ1929	Soil	10/15/08	M^1, M^2, Hg
OU4-UEP-37B-SC	IRJ1929-04	IRJ1929	Soil	10/15/08	M^1, M^2, Hg
OU4-UEP-40A-SC	IRJ1929-05	IRJ1929	Soil	10/15/08	M^1, M^2, Hg
OU4-UEP-40B-SC	IRJ1929-06	IRJ1929	Soil	10/15/08	M^1, M^2, Hg
OU4-LEP-26A-SC	IRJ1929-07	IRJ1929	Soil	10/15/08	M^1, M^2, Hg
OU4-LEP-26B-SC	IRJ1929-08	IRJ1929	Soil	10/15/08	M^1, M^2, Hg
OU4-LEP-19A-SC	IRJ1929-09	IRJ1929	Soil	10/15/08	M^1, M^2, Hg
OU4-LEP-19B-SC	IRJ1929-10	IRJ1929	Soil	10/15/08	M^1, M^2, Hg
OU4-UEP-38A-SC	IRJ1929-11	IRJ1929	Soil	10/16/08	M^1, M^2, Hg
OU4-UEP-38B-SC	IRJ1929-12	IRJ1929	Soil	10/16/08	M^1, M^2, Hg
OU4-UEP-38A-SC-FD (Field Duplicate of OU4-UEP-38A-SC)	IRJ1929-13	IRJ1929	Soil	10/16/08	M^1, M^2, Hg
OU4-UEP-38B-SC-FD (Field Duplicate of OU4-UEP-38B-SC)	IRJ1929-14	IRJ1929	Soil	10/16/08	M^1, M^2, Hg
OU4-UEP-39A-SC	IRJ1929-15	IRJ1929	Soil	10/16/08	M^1, M^2, Hg
OU4-UEP-39B-SC	IRJ1929-16	IRJ1929	Soil	10/16/08	M^1, M^2, Hg
OU4-UEP-43A-SC	IRJ1929-17	IRJ1929	Soil	10/16/08	M^1, M^2, Hg
OU4-UEP-43B-SC	IRJ1929-18	IRJ1929	Soil	10/16/08	M^1, M^2, Hg

NOTES:

M^1 - Metals (specifically, aluminum, boron, calcium, iron, potassium, magnesium, manganese, sodium, and silicon) 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.

Sb - Antimony by SW-846 Method 6020.

Hg - Mercury by SW-846 Method 7471A.

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, sodium, and silicon) 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	√			

<u>MS/MSD Recoveries and Precision</u>: Very low (< 30%) recoveries were observed for boron in the in the MS/MSD analyses in Project Number IRJ1929. The analyses for boron in samples OU4-UEP-40A-SC and OU4-LEP-19A-SC were rejected, and the "not-detected" results have been flagged "UR" on the data tables. In addition, any reported positive results for boron in Project Number IRJ1929 samples should be considered estimated and have been flagged "J" on the data tables.

High (> 125%) recoveries were observed for manganese, potassium, and sodium in the MS analysis in Project Number IRJ1092. The reported positive results for manganese, potassium, and sodium in samples OU4-UEP-08A-SC, OU4-UEP-08A-SC-FD, OU4-UEP-08B-SC, OU4-UEP-08B-SC-FD, OU4-UEP-11B-SC, and OU4-UEP-11A-SC should be considered estimated and have been flagged "J" on the data tables.

Low (< 75%) recoveries were observed for silicon in the MS/MSD analyses in Project Number IRJ1092, indicating a low bias. The reported positive results for silicon in samples OU4-UEP-08A-SC, OU4-UEP-08A-SC-FD, OU4-UEP-08B-SC, OU4-UEP-08B-SC-FD, OU4-UEP-11B-SC, and OU4-UEP-11A-SC should be considered estimated and have been flagged "J" on the data tables.

Low (< 75%) recoveries were observed for boron, manganese, and silicon in the MS/MSD analyses in Project Number IRJ1353, indicating a low bias. The detection limits for boron in samples OU4-UEP-10B-SC and OU4-FEP-13A-SC 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 boron in samples OU4-UEP-10B-SC and OU4-FEP-13A-SC and for manganese and silicon in all Project Number IRJ1353 samples should be considered estimated and have been flagged "J" on the data tables.

Low (< 75%) recoveries were observed for manganese and silicon in the MS/MSD analyses in Project Number IRJ1929, indicating a low bias. The reported positive results for manganese and silicon in all Project Number IRJ1929 samples should be considered estimated and have been flagged "J" on the data tables.

High relative percent differences (RPDs > 35%) were observed between the results for boron, manganese, silicon, aluminum, calcium, iron, and magnesium in the associated MS/MSD analyses in Project Number IRJ1929. All reported positive results for these analytes in Project Number IRJ1929 samples should be considered estimated and have been flagged "J" on the data tables.

RL Standard Recoveries: Low recoveries (< 50%) were observed for boron in the associated reporting limit (RL) standard analyses in Project Number IRJ1353, indicating a low bias for concentrations near the RL. The detection limit for boron in Project Number IRJ1353 sample OU4-FEP-13A-SC may be higher than reported, and the "not-detected" results have been flagged "UJ" on the data tables. In addition, the reported positive result for boron in Project Number IRJ1353 sample OU4-UEP-10A-SC should be considered estimated and has 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-four 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	√			

Item Reviewed	Acceptable	Acceptable With Discussion	Acceptable With Qualification	Not Acceptable
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	√			

MS/MSD Recoveries and Precision: Low recoveries (< 75%) were observed for antimony, arsenic, barium, copper, and selenium in the associated MS/MSD analyses in Project Number IRJ1353, indicating a low bias. All reported positive results for these analytes in Project Number IRJ1353 samples should be considered estimated and have been flagged "J" on the data tables.

Low recoveries (< 75%) were observed for antimony, arsenic, barium, beryllium, chromium, cobalt, molybdenum, nickel, selenium, thallium, vanadium, and zinc in the associated MS/MSD analyses in Project Number IRJ1929, indicating a low bias. The detection limits for these analytes in all Project Number IRJ1929 samples may be higher than reported, and the "not-detected" results have been flagged "UJ" on the data tables. In addition, all reported positive results for these analytes in Project Number IRJ1929 samples should be considered estimated and have been flagged "J" on the data tables.

A low recovery (< 75%) was observed for antimony in the associated MS/MSD analyses in Project Number IRJ1092, indicating a low bias. All reported positive results for antimony in Project Number IRJ1092 samples should be considered estimated and have been flagged "J" on the data tables.

Field Duplicate Precision: Acceptable precision and sample representativeness were not observed (difference > 2× the RL) between the chromium and lead positive results reported in Project Number IRJ1092 sample OU4-UEP-08A-SC and its field duplicate, sample OU4-UEP-08A-SC-FD. The positive results for chromium and lead in the field duplicate samples should be considered estimated and have been flagged "J" on the data tables.

Acceptable precision and sample representativeness were not observed (RPD > 40% or difference > 2× the RL) between the arsenic, lead, and thallium positive results reported in Project Number IRJ1929 sample OU4-UEP-38A-SC and its field duplicate, sample OU4-UEP-38A-SC-FD. The positive results for arsenic, lead, and thallium 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 MDL but less than the RL were qualified as estimated and have been flagged "J" on the data tables.

C. Mercury Analysis

Thirty samples (including QC samples) were analyzed for mercury by SW-846 Method 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	√			

Sample Condition Upon Receipt: The samples in Project Number IRJ1092 were received at temperatures of 8.4ºC and 9.1ºC and a portion of the samples in Project Number IRJ1353 were received at a temperature of 6.8ºC. According to Table 4-2 of the QAPP, soil samples to be analyzed for mercury must be preserved to ≤ 6ºC. The data reviewer does not believe the minor temperature exceedance affected data quality; therefore, data were not qualified due to this issue.

Blank Analysis Results: Mercury was observed to be present in the method blank associated with the samples in Project Number IRJ1092. The reported positive results for mercury in samples OU4-UEP-08A-SC, OU4-UEP-08A-SC-FD, OU4-UEP-08B-SC, OU4-UEP-08B-SC-FD, OU4-UEP-11B-SC, and OU4-UEP-11A-SC should be considered “not-detected” and have been flagged “UJ” on the data tables.

MS/MSD Recoveries and Precision: High recoveries (> 130%) were observed for mercury in the associated MS/MSD analyses in Project Number IRJ1929, indicating a high bias. The reported positive results for mercury in all Project Number IRJ1929 samples should be considered estimated and have been flagged “J” on the data tales.

Field Duplicate Precision: Acceptable precision and sample representativeness were not observed (RPD > 40%) between the mercury positive results reported in Project Number IRJ1929 sample OU4-UEP-38A-SC and its field duplicate, sample OU4-UEP-38A-SC-FD. The positive results for mercury 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 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
manganese, potassium, and sodium	IRJ1092	OU4-UEP-08A-SC, OU4-UEP-08A-SC-FD, OU4-UEP-08B-SC, OU4-UEP-08B-SC-FD, OU4-UEP-11B-SC, and OU4-UEP-11A-SC	J	4H – High MS recoveries
silicon	IRJ1092	OU4-UEP-08A-SC, OU4-UEP-08A-SC-FD, OU4-UEP-08B-SC, OU4-UEP-08B-SC-FD, OU4-UEP-11B-SC, and OU4-UEP-11A-SC	J	4L – Low MS/MSD recoveries
boron, manganese, and silicon	IRJ1353	OU4-UEP-10A-SC, OU4-UEP-10B-SC, OU4-FEP-13A-SC, and OU4-FEP-13B-SC	J/UJ	4L – Low MS/MSD recoveries
manganese and silicon	IRJ1929	All samples	J/UJ	4L – Low MS/MSD recoveries 5 – MS/MSD precision outside of limits
boron	IRJ1929	OU4-UEP-40A-SC and OU4-LEP-19A-SC	UR	4L – Very low MS/MSD recoveries
boron	IRJ1929	All samples except OU4-UEP-40A-SC and OU4-LEP-19A-SC	J	4L – Low MS/MSD recoveries 5 – MS/MSD precision outside of limits
aluminum, calcium, iron, and magnesium	IRJ1929	All samples	J	5 – MS/MSD precision outside of limits
boron	IRJ1353	OU4-UEP-10A-SC and OU4-FEP-13A-SC	J/UJ	9L – Low RL standard recoveries

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
antimony, arsenic, barium, copper, and selenium	IRJ1353	OU4-UEP-10A-SC, OU4-UEP-10B-SC, OU4-FEP-13A-SC, and OU4-FEP-13B-SC	J	4L – Low MS/MSD recoveries
antimony, arsenic, barium, beryllium, chromium, cobalt, molybdenum, nickel, selenium, thallium, vanadium, and zinc	IRJ1929	All samples	J/UJ	4L – Low MS/MSD recoveries
antimony	IRJ1092	All samples	J	4L – Low MS/MSD recoveries
chromium and lead	IRJ1092	OU4-UEP-08A-SC and OU4-UEP-08A-SC-FD	J	8 – Field duplicate precision outside of limits
arsenic, lead, and thallium	IRJ1929	OU4-UEP-38A-SC and OU4-UEP-38A-SC-FD	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)

C. Mercury Analysis

Analyte	Project Number	Sample(s)	Validation Qualifier	Reason for Qualification
mercury	IRJ1092	OU4-UEP-08A-SC, OU4-UEP-08A-SC-FD, OU4-UEP-08B-SC, OU4-UEP-08B-SC-FD, OU4-UEP-11B-SC, and OU4-UEP-11A-SC	UJ	2 – Method blank contamination
mercury	IRJ1929	All samples	J	4H – High MS/MSD recoveries
mercury	IRJ1929	OU4-UEP-38A-SC and OU4-UEP-38A-SC-FD	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)

4.0 Overall Assessment

Based on this quality assurance review, the results for boron in two samples were rejected due to very low MS/MSD recoveries. The results for mercury in several samples were qualified as "not-detected" due to blank contamination. The results for antimony, arsenic, barium, beryllium, boron, chromium, cobalt, copper, manganese, molybdenum, nickel, mercury, potassium, selenium, silicon, sodium, thallium, vanadium, and zinc in several samples were qualified as estimated due to out-of-criteria MS/MSD recoveries. The results for boron, manganese, silicon, aluminum, calcium, iron, and magnesium in several samples were qualified as estimated due to out-of-criteria MS/MSD precision. The results for boron in two samples were qualified as estimated due to a low reporting limit standard recovery. The results for arsenic, chromium, lead, thallium, and mercury in a few 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 the 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:

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7.0 ANALYTICAL RESULTS

Arco - Yerington
SDG: IRJ1092

				Lab Sample	IRJ1092-01					IRJ1092-02				
				Field Sample	OU4-UEP-08A-SC					OU4-UEP-08A-SC-FD				
				Collect Date	2008-10-08 14:00:00					2008-10-08 14:00:00				
				Type	N					FD				
				Parent						OU4-UEP-08A-SC				
Method	**CAS Number**	**Chemical Name**	**Total or Dissolved**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
E160.3	SOLID	SOLIDS, PERCENT		PERCENT	97		0.1	0.1	0	97		0.1	0.1	0
SW6010B	AL	ALUMINUM		MG/KG	2100		10	21	0	3000		10	21	0
	B	BORON		MG/KG	4.3	U	4.3	10	0	4.3	U	4.3	10	0
	CA	CALCIUM		MG/KG	2400		13	31	0	2900		13	31	0
	FE	IRON		MG/KG	10000		3.1	10	0	13000		3.1	10	0
	K	POTASSIUM		MG/KG	520	J / 4H	39	100	0	580	J / 4H	39	100	0
	MG	MAGNESIUM		MG/KG	1000		2.1	21	0	1100		2.1	21	0
	MN	MANGANESE		MG/KG	61	J / 4H	1.6	2.1	0	70	J / 4H	1.6	2.1	0
	NA	SODIUM		MG/KG	370	J / 4H	49	100	0	420	J / 4H	49	100	0
	SI	SILICON		MG/KG	330	J / 4L	7.2	45	0	360	J / 4L	7.2	45	0
SW6020	AG	SILVER		MG/KG	0.15	U	0.15	0.52	0	0.15	U	0.15	0.52	0
	AS	ARSENIC		MG/KG	17		0.36	0.52	0	18		0.36	0.52	0
	BA	BARIUM		MG/KG	42		0.21	0.52	0	49		0.21	0.52	0
	BE	BERYLLIUM		MG/KG	0.1	U	0.1	0.31	0	0.1	U	0.1	0.31	0
	CD	CADMIUM		MG/KG	0.062	U	0.062	0.52	0	0.062	U	0.062	0.52	0
	CO	COBALT		MG/KG	1.9		0.082	0.52	0	2.1		0.082	0.52	0
	CR	CHROMIUM, TOTAL		MG/KG	3.9	J / 8	0.36	1	0	6.2	J / 8	0.36	1	0
	CU	COPPER		MG/KG	20		0.39	1	0	21		0.39	1	0
	MO	MOLYBDENUM		MG/KG	0.69	J / T	0.1	1	0	1.2		0.1	1	0
	NI	NICKEL		MG/KG	2.4		0.46	1	0	2.8		0.46	1	0
	PB	LEAD		MG/KG	2.5	J / 8	0.15	0.52	0	4	J / 8	0.15	0.52	0
	SB	ANTIMONY		MG/KG	0.25	J / T,4L	0.1	1	0	0.26	J / T,4L	0.1	1	0
	SE	SELENIUM		MG/KG	0.55	J / T	0.15	1	0	0.57	J / T	0.15	1	0
	TL	THALLIUM		MG/KG	2.7		0.1	0.52	0	2.7		0.1	0.52	0
	V	VANADIUM		MG/KG	19		0.36	1	0	27		0.36	1	0
	ZN	ZINC		MG/KG	11		1.3	10	0	16		1.3	10	0
SW7471A	HG	MERCURY		MG/KG	0.015	UJ / 2	0.015	0.064	0	0.015	UJ / 2	0.015	0.064	0

				Lab Sample	IRJ1092-03					IRJ1092-04				
				Field Sample	OU4-UEP-08B-SC					OU4-UEP-08B-SC-FD				
				Collect Date	2008-10-08 14:30:00					2008-10-08 14:30:00				
				Type	N					FD				
				Parent						OU4-UEP-08B-SC				
Method	**CAS Number**	**Chemical Name**	**Total or Dissolved**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
E160.3	SOLID	SOLIDS, PERCENT		PERCENT	94		0.1	0.1	0	94		0.1	0.1	0
SW6010B	AL	ALUMINUM		MG/KG	4300		11	21	0	5300		11	21	0
	B	BORON		MG/KG	4.4	U	4.4	11	0	4.4	U	4.4	11	0
	CA	CALCIUM		MG/KG	3900		13	32	0	4200		13	32	0
	FE	IRON		MG/KG	13000		3.2	11	0	15000		3.2	11	0
	K	POTASSIUM		MG/KG	750	J / 4H	40	110	0	870	J / 4H	40	110	0
	MG	MAGNESIUM		MG/KG	2000		2.1	21	0	2300		2.1	21	0
	MN	MANGANESE		MG/KG	110	J / 4H	1.7	2.1	0	120	J / 4H	1.7	2.1	0
	NA	SODIUM		MG/KG	570	J / 4H	51	110	0	660	J / 4H	51	110	0
	SI	SILICON		MG/KG	360	J / 4L	7.4	47	0	390	J / 4L	7.4	47	0
SW6020	AG	SILVER		MG/KG	0.16	U	0.16	0.53	0	0.16	U	0.16	0.53	0
	AS	ARSENIC		MG/KG	27		0.37	0.53	0	31		0.37	0.53	0
	BA	BARIUM		MG/KG	62		0.21	0.53	0	77		0.21	0.53	0
	BE	BERYLLIUM		MG/KG	0.11	J / T	0.11	0.32	0	0.13	J / T	0.11	0.32	0
	CD	CADMIUM		MG/KG	0.064	U	0.064	0.53	0	0.064	U	0.064	0.53	0
	CO	COBALT		MG/KG	2.9		0.085	0.53	0	3.4		0.085	0.53	0
	CR	CHROMIUM, TOTAL		MG/KG	6.7		0.37	1.1	0	7.9		0.37	1.1	0
	CU	COPPER		MG/KG	35		0.4	1.1	0	40		0.4	1.1	0
	MO	MOLYBDENUM		MG/KG	1.1		0.11	1.1	0	1.4		0.11	1.1	0
	NI	NICKEL		MG/KG	3.6		0.48	1.1	0	4		0.48	1.1	0
	PB	LEAD		MG/KG	3.8		0.16	0.53	0	4		0.16	0.53	0
	SB	ANTIMONY		MG/KG	0.26	J / T,4L	0.11	1.1	0	0.29	J / T,4L	0.11	1.1	0
	SE	SELENIUM		MG/KG	0.31	J / T	0.16	1.1	0	0.42	J / T	0.16	1.1	0
	TL	THALLIUM		MG/KG	1.7		0.11	0.53	0	2		0.11	0.53	0
	V	VANADIUM		MG/KG	31		0.37	1.1	0	37		0.37	1.1	0
	ZN	ZINC		MG/KG	17		1.4	11	0	19		1.4	11	0
SW7471A	HG	MERCURY		MG/KG	0.02	UJ / 2	0.02	0.066	0	0.018	UJ / 2	0.018	0.066	0

				Lab Sample	IRJ1092-05					IRJ1092-06				
				Field Sample	OU4-UEP-11B-SC					OU4-UEP-11A-SC				
				Collect Date	2008-10-09 09:00:00					2008-10-09 08:00:00				
				Type	N					N				
				Parent										
Method	**CAS Number**	**Chemical Name**	**Total or Dissolved**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
E160.3	SOLID	SOLIDS, PERCENT		PERCENT	93		0.1	0.1	0	93		0.1	0.1	0
SW6010B	AL	ALUMINUM		MG/KG	12000		11	22	0	12000		11	22	0
	B	BORON		MG/KG	4.5	U	4.5	11	0	13		4.5	11	0
	CA	CALCIUM		MG/KG	3200		13	32	0	7400		13	32	0
	FE	IRON		MG/KG	18000		3.2	11	0	12000		3.2	11	0
	K	POTASSIUM		MG/KG	1900	J / 4H	41	110	0	2100	J / 4H	41	110	0
	MG	MAGNESIUM		MG/KG	5800		2.2	22	0	3700		2.2	22	0
	MN	MANGANESE		MG/KG	540	J / 4H	1.7	2.2	0	350	J / 4H	1.7	2.2	0
	NA	SODIUM		MG/KG	1000	J / 4H	52	110	0	3700	J / 4H	52	110	0
	SI	SILICON		MG/KG	400	J / 4L	7.5	47	0	460	J / 4L	7.6	48	0
SW6020	AG	SILVER		MG/KG	0.16	U	0.16	0.54	0	0.16	U	0.16	0.54	0
	AS	ARSENIC		MG/KG	6.3		0.38	0.54	0	13		0.38	0.54	0
	BA	BARIUM		MG/KG	100		0.22	0.54	0	81		0.22	0.54	0
	BE	BERYLLIUM		MG/KG	0.37		0.11	0.32	0	0.39		0.11	0.32	0
	CD	CADMIUM		MG/KG	0.065	U	0.065	0.54	0	0.065	U	0.065	0.54	0
	CO	COBALT		MG/KG	6.3		0.086	0.54	0	3.9		0.086	0.54	0
	CR	CHROMIUM, TOTAL		MG/KG	8		0.38	1.1	0	5.8		0.38	1.1	0
	CU	COPPER		MG/KG	30		0.41	1.1	0	22		0.41	1.1	0
	MO	MOLYBDENUM		MG/KG	0.92	J / T	0.11	1.1	0	0.76	J / T	0.11	1.1	0
	NI	NICKEL		MG/KG	7.7		0.48	1.1	0	5.7		0.49	1.1	0
	PB	LEAD		MG/KG	6.6		0.16	0.54	0	5.8		0.16	0.54	0
	SB	ANTIMONY		MG/KG	0.38	J / T,4L	0.11	1.1	0	0.32	J / T,4L	0.11	1.1	0
	SE	SELENIUM		MG/KG	0.21	J / T	0.16	1.1	0	0.34	J / T	0.16	1.1	0
	TL	THALLIUM		MG/KG	0.2	J / T	0.11	0.54	0	0.16	J / T	0.11	0.54	0
	V	VANADIUM		MG/KG	35		0.38	1.1	0	46		0.38	1.1	0
	ZN	ZINC		MG/KG	36		1.4	11	0	26		1.4	11	0
SW7471A	HG	MERCURY		MG/KG	0.022	UJ / 2	0.022	0.067	0	0.037	UJ / 2	0.037	0.067	0

Arco - Yerington
SDG: IRJ1353

				Lab Sample	IRJ1353-01					IRJ1353-02				
				Field Sample	OU4-UEP-10A-SC					OU4-UEP-10B-SC				
				Collect Date	2008-10-12 10:15:00					2008-10-12 10:30:00				
				Type	N					N				
				Parent										
Method	**CAS Number**	**Chemical Name**	**Total or Dissolved**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
E160.3	SOLID	SOLIDS, PERCENT		PERCENT	80		0.1	0.1	0	86		0.1	0.1	0
SW6010B	AL	ALUMINUM		MG/KG	24000		6.2	12	0	8500		5.8	12	0
	B	BORON		MG/KG	13	J / 4L,9L	5.2	12	0	2.5	UJ / 2.5	2.5	5.8	0
	CA	CALCIUM		MG/KG	4500		16	38	0	40000		7.3	18	0
	FE	IRON		MG/KG	36000		3.8	12	0	12000		1.8	5.8	0
	K	POTASSIUM		MG/KG	3100		48	120	0	830		22	58	0
	MG	MAGNESIUM		MG/KG	7400		2.5	25	0	3600		1.2	12	0
	MN	MANGANESE		MG/KG	240	J / 4L	2	2.5	0	420	J / 4L	0.93	1.2	0
	NA	SODIUM		MG/KG	2400		60	120	0	1700		28	58	0
	SI	SILICON		MG/KG	27	J / T,4L	8.8	55	0	55	J / 4L	4.1	26	0
SW6020	AG	SILVER		MG/KG	0.19	U	0.19	0.62	0	0.17	U	0.17	0.58	0
	AS	ARSENIC		MG/KG	71	J / 4L	0.44	0.62	0	11	J / 4L	0.41	0.58	0
	BA	BARIUM		MG/KG	170	J / 4L	0.25	0.62	0	81	J / 4L	0.23	0.58	0
	BE	BERYLLIUM		MG/KG	0.42		0.12	0.37	0	0.36		0.12	0.35	0
	CD	CADMIUM		MG/KG	0.09	J / T	0.075	0.62	0	0.11	J / T	0.07	0.58	0
	CO	COBALT		MG/KG	6.9		0.1	0.62	0	6		0.093	0.58	0
	CR	CHROMIUM, TOTAL		MG/KG	25		0.44	1.2	0	8		0.41	1.2	0
	CU	COPPER		MG/KG	100	J / 4L	0.47	1.2	0	14	J / 4L	0.44	1.2	0
	MO	MOLYBDENUM		MG/KG	24		0.12	1.2	0	1.9		0.12	1.2	0
	NI	NICKEL		MG/KG	11		0.56	1.2	0	5.6		0.52	1.2	0
	PB	LEAD		MG/KG	11		0.19	0.62	0	3.6		0.17	0.58	0
	SB	ANTIMONY		MG/KG	0.56	J / T,4L	0.12	1.2	0	0.47	J / T,4L	0.12	1.2	0
	SE	SELENIUM		MG/KG	1.8	J / 4L	0.19	1.2	0	0.2	J / T,4L	0.17	1.2	0
	TL	THALLIUM		MG/KG	1.4		0.12	0.62	0	0.17	J / T	0.12	0.58	0
	V	VANADIUM		MG/KG	63		0.44	1.2	0	38		0.41	1.2	0
	ZN	ZINC		MG/KG	50		1.6	12	0	26		1.5	12	0
SW7471A	HG	MERCURY		MG/KG	0.17		0.015	0.025	0	0.048		0.014	0.023	0

				Lab Sample	IRJ1353-03					IRJ1353-04				
				Field Sample	OU4-FEP-13A-SC					OU4-FEP-13B-SC				
				Collect Date	2008-10-12 14:40:00					2008-10-12 17:00:00				
				Type	N					N				
				Parent										
Method	**CAS Number**	**Chemical Name**	**Total or Dissolved**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
E160.3	SOLID	SOLIDS, PERCENT		PERCENT	92		0.1	0.1	0	88		0.1	0.1	0
SW6010B	AL	ALUMINUM		MG/KG	7600		5.4	11	0	9800		5.7	11	0
	B	BORON		MG/KG	2.3	UJ / 4L,9L	2.3	5.4	0	3.2	J / T,4L	2.4	5.7	0
	CA	CALCIUM		MG/KG	1300		6.8	16	0	8100		7.1	17	0
	FE	IRON		MG/KG	18000		1.6	5.4	0	12000		1.7	5.7	0
	K	POTASSIUM		MG/KG	2800		21	54	0	1500		22	57	0
	MG	MAGNESIUM		MG/KG	2400		1.1	11	0	2800		1.1	11	0
	MN	MANGANESE		MG/KG	79	J / 4L	0.86	1.1	0	150	J / 4L	0.91	1.1	0
	NA	SODIUM		MG/KG	200		26	54	0	390		27	57	0
	SI	SILICON		MG/KG	200	J / 4L	3.8	24	0	340	J / 4L	4	25	0
SW6020	AG	SILVER		MG/KG	0.16	U	0.16	0.54	0	0.17	U	0.17	0.57	0
	AS	ARSENIC		MG/KG	86	J / 4L	0.38	0.54	0	22	J / 4L	0.4	0.57	0
	BA	BARIUM		MG/KG	95	J / 4L	0.22	0.54	0	91	J / 4L	0.23	0.57	0
	BE	BERYLLIUM		MG/KG	0.22	J / T	0.11	0.32	0	0.44		0.11	0.34	0
	CD	CADMIUM		MG/KG	0.065	U	0.065	0.54	0	0.069	U	0.069	0.57	0
	CO	COBALT		MG/KG	2.6		0.086	0.54	0	3.9		0.091	0.57	0
	CR	CHROMIUM, TOTAL		MG/KG	18		0.38	1.1	0	13		0.4	1.1	0
	CU	COPPER		MG/KG	160	J / 4L	0.41	1.1	0	78	J / 4L	0.43	1.1	0
	MO	MOLYBDENUM		MG/KG	1.3		0.11	1.1	0	1.6		0.11	1.1	0
	NI	NICKEL		MG/KG	3.5		0.49	1.1	0	5.7		0.51	1.1	0
	PB	LEAD		MG/KG	6		0.16	0.54	0	8.4		0.17	0.57	0
	SB	ANTIMONY		MG/KG	0.68	J / T,4L	0.11	1.1	0	0.42	J / T,4L	0.11	1.1	0
	SE	SELENIUM		MG/KG	15	J / 4L	0.16	1.1	0	1.7	J / 4L	0.17	1.1	0
	TL	THALLIUM		MG/KG	18		0.11	0.54	0	0.91		0.11	0.57	0
	V	VANADIUM		MG/KG	27		0.38	1.1	0	45		0.4	1.1	0
	ZN	ZINC		MG/KG	20		1.4	11	0	34		1.5	11	0
SW7471A	HG	MERCURY		MG/KG	0.49		0.013	0.022	0	0.14		0.014	0.023	0

				Lab Sample	IRJ1929-01					IRJ1929-02				
				Field Sample	OU4-UEP-36A-SC					OU4-UEP-36B-SC				
				Collect Date	2008-10-15 13:20:00					2008-10-15 13:20:00				
				Type	N					N				
				Parent										
Method	**CAS Number**	**Chemical Name**	**Total or Dissolved**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
E160.3	SOLID	SOLIDS, PERCENT		PERCENT	78		0.1	0.1	0	79		0.1	0.1	0
SW6010B	AL	ALUMINUM		MG/KG	3400	J / 5	32	64	0	19000	J / 5	32	63	0
	B	BORON		MG/KG	20	J / T,4L,5	14	32	0	66	J / 4L,5	13	32	0
	CA	CALCIUM		MG/KG	46000	J / 5	40	97	0	11000	J / 5	40	95	0
	FE	IRON		MG/KG	180000	J / 5	9.7	32	0	42000	J / 5	9.5	32	0
	K	POTASSIUM		MG/KG	12000		240	640	0	5500		120	320	0
	MG	MAGNESIUM		MG/KG	1700	J / 5	6.4	64	0	5300	J / 5	6.3	63	0
	MN	MANGANESE		MG/KG	130	J / 4L,5	5.1	6.4	0	250	J / 4L,5	5.1	6.3	0
	NA	SODIUM		MG/KG	22000		310	640	0	3100		150	320	0
	SI	SILICON		MG/KG	690	J / 4L,5	23	140	0	76	J / T,4L,5	22	140	0
SW6020	AG	SILVER		MG/KG	0.97	U	0.97	3.2	0	0.19	U	0.19	0.63	0
	AS	ARSENIC		MG/KG	120	J / 4L	2.3	3.2	0	49	J / 4L	0.44	0.63	0
	BA	BARIUM		MG/KG	68	J / 4L	1.3	3.2	0	120	J / 4L	0.25	0.63	0
	BE	BERYLLIUM		MG/KG	0.64	UJ / 4L	0.64	1.9	0	0.35	J / T,4L	0.13	0.38	0
	CD	CADMIUM		MG/KG	0.39	U	0.39	3.2	0	0.092	J / T	0.076	0.63	0
	CO	COBALT		MG/KG	7.3	J / 4L	0.51	3.2	0	6.3	J / 4L	0.1	0.63	0
	CR	CHROMIUM, TOTAL		MG/KG	13	J / 4L	2.3	6.4	0	12	J / 4L	0.44	1.3	0
	CU	COPPER		MG/KG	360		2.4	6.4	0	280		0.48	1.3	0
	MO	MOLYBDENUM		MG/KG	32	J / 4L	0.64	6.4	0	4.3	J / 4L	0.13	1.3	0
	NI	NICKEL		MG/KG	9.4	J / 4L	2.9	6.4	0	8.6	J / 4L	0.57	1.3	0
	PB	LEAD		MG/KG	50		0.97	3.2	0	9.8		0.19	0.63	0
	SB	ANTIMONY		MG/KG	1	J / T,4L	0.64	6.4	0	0.46	J / T,4L	0.13	1.3	0
	SE	SELENIUM		MG/KG	76	J / 4L	0.97	6.4	0	8.5	J / 4L	0.19	1.3	0
	TL	THALLIUM		MG/KG	48	J / 4L	0.64	3.2	0	9.2	J / 4L	0.13	0.63	0
	V	VANADIUM		MG/KG	58	J / 4L	2.3	6.4	0	38	J / 4L	0.44	1.3	0
	ZN	ZINC		MG/KG	19	J / T,4L	8.4	64	0	40	J / 4L	1.6	13	0
SW7471A	HG	MERCURY		MG/KG	1.4	J / 4H	0.015	0.026	0	0.22	J / 4H	0.015	0.025	0

				Lab Sample	IRJ1929-03					IRJ1929-04				
				Field Sample	OU4-UEP-37A-SC					OU4-UEP-37B-SC				
				Collect Date	2008-10-15 14:05:00					2008-10-15 04:05:00				
				Type	N					N				
				Parent										
Method	**CAS Number**	**Chemical Name**	**Total or Dissolved**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
E160.3	SOLID	SOLIDS, PERCENT		PERCENT	92		0.1	0.1	0	74		0.1	0.1	0
SW6010B	AL	ALUMINUM		MG/KG	4600	J / 5	27	54	0	22000	J / 5	34	67	0
	B	BORON		MG/KG	13	J / T,4L,5	11	27	0	52	J / 4L,5	14	34	0
	CA	CALCIUM		MG/KG	36000	J / 5	34	81	0	12000	J / 5	42	100	0
	FE	IRON		MG/KG	120000	J / 5	8.1	27	0	51000	J / 5	10	34	0
	K	POTASSIUM		MG/KG	9500		100	270	0	5200		130	340	0
	MG	MAGNESIUM		MG/KG	3700	J / 5	5.4	54	0	7200	J / 5	6.7	67	0
	MN	MANGANESE		MG/KG	290	J / 4L,5	4.3	5.4	0	350	J / 4L,5	5.4	6.7	0
	NA	SODIUM		MG/KG	17000		130	270	0	4300		160	340	0
	SI	SILICON		MG/KG	240	J / 4L,5	19	120	0	52	J / T,4L,5	24	150	0
SW6020	AG	SILVER		MG/KG	0.81	U	0.81	2.7	0	0.2	U	0.2	0.67	0
	AS	ARSENIC		MG/KG	23	J / 4L	1.9	2.7	0	120	J / 4L	0.47	0.67	0
	BA	BARIUM		MG/KG	39	J / 4L	1.1	2.7	0	150	J / 4L	0.27	0.67	0
	BE	BERYLLIUM		MG/KG	0.54	UJ / 4L	0.54	1.6	0	0.36	J / T,4L	0.13	0.4	0
	CD	CADMIUM		MG/KG	0.33	U	0.33	2.7	0	0.12	J / T	0.081	0.67	0
	CO	COBALT		MG/KG	13	J / 4L	0.43	2.7	0	9.2	J / 4L	0.11	0.67	0
	CR	CHROMIUM, TOTAL		MG/KG	4.7	J / T,4L	1.9	5.4	0	19	J / 4L	0.47	1.3	0
	CU	COPPER		MG/KG	720		2.1	5.4	0	380		0.51	1.3	0
	MO	MOLYBDENUM		MG/KG	8.7	J / 4	0.54	5.4	0	20	J / 4L	0.13	1.3	0
	NI	NICKEL		MG/KG	14	J / 4	2.4	5.4	0	12	J / 4L	0.61	1.3	0
	PB	LEAD		MG/KG	17		0.81	2.7	0	15		0.2	0.67	0
	SB	ANTIMONY		MG/KG	0.77	J / T,4L	0.54	5.4	0	0.66	J / T,4L	0.13	1.3	0
	SE	SELENIUM		MG/KG	9.1	J / 4L	0.81	5.4	0	8.7	J / 4	0.2	1.3	0
	TL	THALLIUM		MG/KG	20	J / 4L	0.54	2.7	0	13	J / 4	0.13	0.67	0
	V	VANADIUM		MG/KG	28	J / 4L	1.9	5.4	0	78	J / 4	0.47	1.3	0
	ZN	ZINC		MG/KG	38	J / T,4L	7.1	54	0	46	J / 4	1.7	13	0
SW7471A	HG	MERCURY		MG/KG	0.48	J / 4H	0.013	0.022	0	0.81	J / 4H	0.016	0.027	0

				Lab Sample	IRJ1929-05					IRJ1929-06				
				Field Sample	OU4-UEP-40A-SC					OU4-UEP-40B-SC				
				Collect Date	2008-10-16 14:30:00					2008-10-16 14:30:00				
				Type	N					N				
				Parent										
Method	**CAS Number**	**Chemical Name**	**Total or Dissolved**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
E160.3	SOLID	SOLIDS, PERCENT		PERCENT	80		0.1	0.1	0	75		0.1	0.1	0
SW6010B	AL	ALUMINUM		MG/KG	2300	J / 5	63	130	0	26000	J / 5	33	67	0
	B	BORON		MG/KG	26	UR / 4L	26	63	0	56	J / 4L,5	14	33	0
	CA	CALCIUM		MG/KG	38000	J / 5	79	190	0	13000	J / 5	42	100	0
	FE	IRON		MG/KG	240000	J / 5	19	63	0	58000	J / 5	10	33	0
	K	POTASSIUM		MG/KG	9000		240	630	0	6200		130	330	0
	MG	MAGNESIUM		MG/KG	1400	J / 5	13	130	0	7200	J / 5	6.7	67	0
	MN	MANGANESE		MG/KG	130	J / 4L,5	10	13	0	280	J / 4L,5	5.3	6.7	0
	NA	SODIUM		MG/KG	28000		300	630	0	3900		160	330	0
	SI	SILICON		MG/KG	440	J / 4L,5	44	280	0	55	J / T,4L,5	23	150	0
SW6020	AG	SILVER		MG/KG	0.94	U	0.94	3.1	0	0.39	J / T	0.2	0.67	0
	AS	ARSENIC		MG/KG	80	J / 4L	2.2	3.1	0	110	J / 4L	0.47	0.67	0
	BA	BARIUM		MG/KG	60	J / 4L	1.3	3.1	0	130	J / 4L	0.27	0.67	0
	BE	BERYLLIUM		MG/KG	0.63	UJ / 4L	0.63	1.9	0	0.38	J / T,4L	0.13	0.4	0
	CD	CADMIUM		MG/KG	0.38	U	0.38	3.1	0	0.083	J / T	0.08	0.67	0
	CO	COBALT		MG/KG	7.5	J / 4L	0.5	3.1	0	6.1	J / 4L	0.11	0.67	0
	CR	CHROMIUM, TOTAL		MG/KG	8	J / 4L	2.2	6.3	0	17	U / 4L	0.47	1.3	0
	CU	COPPER		MG/KG	320		2.4	6.3	0	240		0.51	1.3	0
	MO	MOLYBDENUM		MG/KG	15	J / 4L	0.63	6.3	0	13	J / 4L	0.13	1.3	0
	NI	NICKEL		MG/KG	12	J / 4L	2.8	6.3	0	8.9	J / 4L	0.6	1.3	0
	PB	LEAD		MG/KG	44		0.94	3.1	0	14		0.2	0.67	0
	SB	ANTIMONY		MG/KG	0.89	J / T,4L	0.63	6.3	0	0.53	J / T,4L	0.13	1.3	0
	SE	SELENIUM		MG/KG	25	J / 4L	0.94	6.3	0	4.7	J / 4L	0.2	1.3	0
	TL	THALLIUM		MG/KG	45	J / 4L	0.63	3.1	0	6.1	J / 4L	0.13	0.67	0
	V	VANADIUM		MG/KG	33	J / 4L	2.2	6.3	0	54	J / 4L	0.47	1.3	0
	ZN	ZINC		MG/KG	21	J / T,4L	8.2	63	0	44	J / 4L	1.7	13	0
SW7471A	HG	MERCURY		MG/KG	1.3	J / 4H	0.015	0.025	0	0.15	J / 4H	0.016	0.027	0

				Lab Sample	IRJ1929-07					IRJ1929-08				
				Field Sample	OU4-LEP-26A-SC					OU4-LEP-26B-SC				
				Collect Date	2008-10-15 15:15:00					2008-10-15 15:15:00				
				Type	N					N				
				Parent										
Method	**CAS Number**	**Chemical Name**	**Total or Dissolved**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
E160.3	SOLID	SOLIDS, PERCENT		PERCENT	93		0.1	0.1	0	85		0.1	0.1	0
SW6010B	AL	ALUMINUM		MG/KG	4800	J / 5	27	54	0	16000	J / 5	29	59	0
	B	BORON		MG/KG	57	J / 4L,5	11	27	0	12	J / T,4L,5	12	29	0
	CA	CALCIUM		MG/KG	47000	J / 5	34	81	0	6500	J / 5	37	88	0
	FE	IRON		MG/KG	160000	J / 5	8.1	27	0	36000	J / 5	8.8	29	0
	K	POTASSIUM		MG/KG	9100		200	540	0	3900		110	290	0
	MG	MAGNESIUM		MG/KG	4300	J / 5	5.4	54	0	4700	J / 5	5.9	59	0
	MN	MANGANESE		MG/KG	310	J / 4L,5	4.3	5.4	0	190	J / 4L,5	4.7	5.9	0
	NA	SODIUM		MG/KG	21000		260	540	0	2000		140	290	0
	SI	SILICON		MG/KG	210	J / 4L,5	19	120	0	36	J / T,4L,5	21	130	0
SW6020	AG	SILVER		MG/KG	0.81	U	0.81	2.7	0	0.18	U	0.18	0.59	0
	AS	ARSENIC		MG/KG	3.5	J / 4L	1.9	2.7	0	7	J / 4L	0.41	0.59	0
	BA	BARIUM		MG/KG	12	J / 4L	1.1	2.7	0	91	J / 4L	0.24	0.59	0
	BE	BERYLLIUM		MG/KG	0.54	UJ / 4L	0.54	1.6	0	0.3	J / T,4L	0.12	0.35	0
	CD	CADMIUM		MG/KG	0.32	U	0.32	2.7	0	0.071	U	0.071	0.59	0
	CO	COBALT		MG/KG	7.8	J / 4L	0.43	2.7	0	5.3	J / 4L	0.094	0.59	0
	CR	CHROMIUM, TOTAL		MG/KG	3.8	J / T,4L	1.9	5.4	0	13	J / 4L	0.41	1.2	0
	CU	COPPER		MG/KG	160		2	5.4	0	74		0.45	1.2	0
	MO	MOLYBDENUM		MG/KG	11	J / 4L	0.54	5.4	0	1.6	J / 4L	0.12	1.2	0
	NI	NICKEL		MG/KG	11	J / 4L	2.4	5.4	0	8.6	J / 4L	0.53	1.2	0
	PB	LEAD		MG/KG	3.2		0.81	2.7	0	7.1		0.18	0.59	0
	SB	ANTIMONY		MG/KG	0.54	UJ / 4L	0.54	5.4	0	0.4	J / T,4L	0.12	1.2	0
	SE	SELENIUM		MG/KG	1.5	J / T,4L	0.81	5.4	0	0.51	J / T,4L	0.18	1.2	0
	TL	THALLIUM		MG/KG	6.5	J / 4L	0.54	2.7	0	0.23	J / T,4L	0.12	0.59	0
	V	VANADIUM		MG/KG	26	J / 4L	1.9	5.4	0	40	J / 4L	0.41	1.2	0
	ZN	ZINC		MG/KG	11	J / T,4L	7	54	0	33	J / 4L	1.5	12	0
SW7471A	HG	MERCURY		MG/KG	0.081	J / 4H	0.013	0.022	0	0.04	J / 4H	0.014	0.024	0

				Lab Sample	IRJ1929-09					IRJ1929-10				
				Field Sample	OU4-LEP-19A-SC					OU4-LEP-19B-SC				
				Collect Date	2008-10-15 16:05:00					2008-10-15 16:05:00				
				Type	N					N				
				Parent										
Method	**CAS Number**	**Chemical Name**	**Total or Dissolved**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
E160.3	SOLID	SOLIDS, PERCENT		PERCENT	81		0.1	0.1	0	81		0.1	0.1	0
SW6010B	AL	ALUMINUM		MG/KG	12000	J / 5	31	62	0	37000	J / 5	31	62	0
	B	BORON		MG/KG	13	UR / 4L	13	31	0	34	J / 4L,5	13	31	0
	CA	CALCIUM		MG/KG	32000	J / 5	39	93	0	8300	J / 5	39	93	0
	FE	IRON		MG/KG	96000	J / 5	9.3	31	0	42000	J / 5	9.3	31	0
	K	POTASSIUM		MG/KG	1200		120	310	0	6200		120	310	0
	MG	MAGNESIUM		MG/KG	12000	J / 5	6.2	62	0	14000	J / 5	6.2	62	0
	MN	MANGANESE		MG/KG	800	J / 4L,5	5	6.2	0	710	J / 4L,5	4.9	6.2	0
	NA	SODIUM		MG/KG	11000		150	310	0	900		150	310	0
	SI	SILICON		MG/KG	370	J / 4L,5	22	140	0	42	J / T,4L,5	22	140	0
SW6020	AG	SILVER		MG/KG	0.93	U	0.93	3.1	0	0.24	J / T	0.19	0.62	0
	AS	ARSENIC		MG/KG	2.5	J / T,4L	2.2	3.1	0	14	J / 4L	0.43	0.62	0
	BA	BARIUM		MG/KG	22	J / 4L	1.2	3.1	0	89	J / 4L	0.25	0.62	0
	BE	BERYLLIUM		MG/KG	0.79	J / T,4L	0.62	1.9	0	1.3	J / 4L	0.12	0.37	0
	CD	CADMIUM		MG/KG	0.37	U	0.37	3.1	0	0.26	J / T	0.074	0.62	0
	CO	COBALT		MG/KG	88	J / 4L	0.5	3.1	0	29	J / 4L	0.099	0.62	0
	CR	CHROMIUM, TOTAL		MG/KG	9.8	J / 4L	2.2	6.2	0	25	J / 4L	0.43	1.2	0
	CU	COPPER		MG/KG	2800		2.4	6.2	0	1000		4.7	12	0
	MO	MOLYBDENUM		MG/KG	0.62	UJ / 4L	0.62	6.2	0	1.5	J / 4L	0.12	1.2	0
	NI	NICKEL		MG/KG	46	J / 4L	2.8	6.2	0	26	J / 4L	0.56	1.2	0
	PB	LEAD		MG/KG	1.7	J / T	0.93	3.1	0	9.8		0.19	0.62	0
	SB	ANTIMONY		MG/KG	0.62	UJ / 4L	0.62	6.2	0	0.46	J / T,4L	0.12	1.2	0
	SE	SELENIUM		MG/KG	1.3	J / T,4L	0.93	6.2	0	0.48	J / T,4L	0.19	1.2	0
	TL	THALLIUM		MG/KG	0.62	UJ / 4L	0.62	3.1	0	0.26	J / T,4L	0.12	0.62	0
	V	VANADIUM		MG/KG	28	J / 4L	2.2	6.2	0	160	J / 4L	0.43	1.2	0
	ZN	ZINC		MG/KG	120	J / 4L	8.1	62	0	89	J / 4L	1.6	12	0
SW7471A	HG	MERCURY		MG/KG	0.065	J / 4H	0.015	0.025	0	0.032	J / 4H	0.015	0.025	0

				Lab Sample	IRJ1929-11					IRJ1929-12				
				Field Sample	OU4-UEP-38A-SC					OU4-UEP-38B-SC				
				Collect Date	2008-10-16 08:12:00					2008-10-16 08:12:00				
				Type	N					N				
				Parent										
Method	**CAS Number**	**Chemical Name**	**Total or Dissolved**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
E160.3	SOLID	SOLIDS, PERCENT		PERCENT	80		0.1	0.1	0	79		0.1	0.1	0
SW6010B	AL	ALUMINUM		MG/KG	4300	J / 5	31	62	0	25000	J / 5	31	63	0
	B	BORON		MG/KG	16	J / T,4L,5	13	31	0	36	J / 4L,5	13	31	0
	CA	CALCIUM		MG/KG	48000	J / 5	39	94	0	9700	J / 5	39	94	0
	FE	IRON		MG/KG	130000	J / 5	9.4	31	0	63000	J / 5	9.4	31	0
	K	POTASSIUM		MG/KG	7900		120	310	0	5400		120	310	0
	MG	MAGNESIUM		MG/KG	2300	J / 5	6.2	62	0	7800	J / 5	6.3	63	0
	MN	MANGANESE		MG/KG	150	J / 4L,5	5	6.2	0	300	J / 4L,5	5	6.3	0
	NA	SODIUM		MG/KG	16000		150	310	0	5100		150	310	0
	SI	SILICON		MG/KG	280	J / 4L,5	22	140	0	85	J / T,4L,5	22	140	0
SW6020	AG	SILVER		MG/KG	0.94	U	0.94	3.1	0	0.19	U	0.19	0.63	0
	AS	ARSENIC		MG/KG	23	J / 4L,8	2.2	3.1	0	67	J / 4L	0.44	0.63	0
	BA	BARIUM		MG/KG	42	J / 4L	1.2	3.1	0	130	J / 4L	0.25	0.63	0
	BE	BERYLLIUM		MG/KG	0.62	UJ / 4L	0.62	1.9	0	0.38	J / 4L	0.13	0.38	0
	CD	CADMIUM		MG/KG	0.37	U	0.37	3.1	0	0.086	J / T	0.076	0.63	0
	CO	COBALT		MG/KG	6.9	J / 4L	0.5	3.1	0	7.7	J / 4L	0.1	0.63	0
	CR	CHROMIUM, TOTAL		MG/KG	5.9	J / T,4L	2.2	6.2	0	18	J / 4L	0.44	1.3	0
	CU	COPPER		MG/KG	540		2.4	6.2	0	320		0.48	1.3	0
	MO	MOLYBDENUM		MG/KG	6.1	J / T,4L	0.62	6.2	0	4	J / 4L	0.13	1.3	0
	NI	NICKEL		MG/KG	6.9	J / 4L	2.8	6.2	0	12	J / 4L	0.57	1.3	0
	PB	LEAD		MG/KG	12	J / 8	0.94	3.1	0	11		0.19	0.63	0
	SB	ANTIMONY		MG/KG	0.7	J / T,4L	0.62	6.2	0	0.45	J / T,4L	0.13	1.3	0
	SE	SELENIUM		MG/KG	6.6	J / 4L	0.94	6.2	0	1.9	J / 4L	0.19	1.3	0
	TL	THALLIUM		MG/KG	14	J / 4L,8	0.62	3.1	0	3.1	J / 4L	0.13	0.63	0
	V	VANADIUM		MG/KG	44	J / 4L	2.2	6.2	0	66	J / 4L	0.44	1.3	0
	ZN	ZINC		MG/KG	140	J / 4L	8.1	62	0	45	J / 4L	1.6	13	0
SW7471A	HG	MERCURY		MG/KG	0.39	J / 4H,8	0.015	0.025	0	0.14	J / 4H	0.015	0.025	0

				Lab Sample	IRJ1929-13					IRJ1929-14				
				Field Sample	OU4-UEP-38A-SC-FD					OU4-UEP-38B-SC-FD				
				Collect Date	2008-10-16 08:12:00					2008-10-16 08:12:00				
				Type	FD					FD				
				Parent	OU4-UEP-38A-SC					OU4-UEP-38B-SC				
Method	**CAS Number**	**Chemical Name**	**Total or Dissolved**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
E160.3	SOLID	SOLIDS, PERCENT		PERCENT	80		0.1	0.1	0	78		0.1	0.1	0
SW6010B	AL	ALUMINUM		MG/KG	3900	J / 5	31	63	0	24000	J / 5	32	64	0
	B	BORON		MG/KG	22	J / T,4L,5	13	31	0	40	J / 4L,5	13	32	0
	CA	CALCIUM		MG/KG	38000	J / 5	39	94	0	13000	J / 5	40	96	0
	FE	IRON		MG/KG	190000	J / 5	19	63	0	62000	J / 5	9.6	32	0
	K	POTASSIUM		MG/KG	9700		240	630	0	5400		120	320	0
	MG	MAGNESIUM		MG/KG	2200	J / 5	6.3	63	0	7300	J / 5	6.4	64	0
	MN	MANGANESE		MG/KG	170	J / 4L,5	5	6.3	0	280	J / 4L,5	5.1	6.4	0
	NA	SODIUM		MG/KG	21000		300	630	0	5300		150	320	0
	SI	SILICON		MG/KG	220	J / 4L,5	22	140	0	96	J / T,4L,5	22	140	0
SW6020	AG	SILVER		MG/KG	0.94	U	0.94	3.1	0	0.96	U	0.96	3.2	0
	AS	ARSENIC		MG/KG	43	J / 4L,8	2.2	3.1	0	70	J / 4L	2.2	3.2	0
	BA	BARIUM		MG/KG	51	J / 4L	1.3	3.1	0	150	J / 4L	1.3	3.2	0
	BE	BERYLLIUM		MG/KG	0.63	UJ / 4L	0.63	1.9	0	0.64	UJ / 4L	0.64	1.9	0
	CD	CADMIUM		MG/KG	0.38	U	0.38	3.1	0	0.38	U	0.38	3.2	0
	CO	COBALT		MG/KG	7.4	J / 4L	0.5	3.1	0	9.7	J / 4L	0.51	3.2	0
	CR	CHROMIUM, TOTAL		MG/KG	7.1	J / 4L	2.2	6.3	0	23	J / 4L	2.2	6.4	0
	CU	COPPER		MG/KG	540		2.4	6.3	0	390		2.4	6.4	0
	MO	MOLYBDENUM		MG/KG	9	J / 4L	0.63	6.3	0	4.7	J / T,4L	0.64	6.4	0
	NI	NICKEL		MG/KG	8.7	J / 4L	2.8	6.3	0	15	J / 4L	2.9	6.4	0
	PB	LEAD		MG/KG	25	J / 8	0.94	3.1	0	13		0.96	3.2	0
	SB	ANTIMONY		MG/KG	0.65	J / T,4L	0.63	6.3	0	0.44	J / T,4L	0.13	1.3	0
	SE	SELENIUM		MG/KG	12	J / 4L	0.94	6.3	0	3.6	J / T,4L	0.96	6.4	0
	TL	THALLIUM		MG/KG	24	J / 4L,8	0.63	3.1	0	7.1	J / 4L	0.64	3.2	0
	V	VANADIUM		MG/KG	45	J / 4L	2.2	6.3	0	69	J / 4L	2.2	6.4	0
	ZN	ZINC		MG/KG	24	J / T,4L	8.2	63	0	84	J / 4L	8.3	64	0
SW7471A	HG	MERCURY		MG/KG	0.62	J / 4H,8	0.015	0.025	0	0.1	J / 4H	0.015	0.026	0

				Lab Sample	IRJ1929-15					IRJ1929-16				
				Field Sample	OU4-UEP-39A-SC					OU4-UEP-39B-SC				
				Collect Date	2008-10-16 08:50:00					2008-10-16 08:50:00				
				Type	N					N				
				Parent										
Method	**CAS Number**	**Chemical Name**	**Total or Dissolved**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
E160.3	SOLID	SOLIDS, PERCENT		PERCENT	82		0.1	0.1	0	79		0.1	0.1	0
SW6010B	AL	ALUMINUM		MG/KG	7600	J / 5	31	61	0	23000	J / 4L	31	63	0
	B	BORON		MG/KG	43	J / 4L,5	13	31	0	58	J / 4L,5	13	31	0
	CA	CALCIUM		MG/KG	31000	J / 5	38	92	0	12000	J / 5	39	94	0
	FE	IRON		MG/KG	190000	J / 5	18	61	0	60000	J / 5	9.4	31	0
	K	POTASSIUM		MG/KG	9700		230	610	0	5800		120	310	0
	MG	MAGNESIUM		MG/KG	2400	J / 5	6.1	61	0	6100	J / 5	6.3	63	0
	MN	MANGANESE		MG/KG	150	J / 4L,5	4.9	6.1	0	230	J / 4L,5	5	6.3	0
	NA	SODIUM		MG/KG	20000		290	610	0	4300		150	310	0
	SI	SILICON		MG/KG	250	J / 4L,5	21	130	0	82	J / T,4L,5	22	140	0
SW6020	AG	SILVER		MG/KG	0.92	U	0.92	3.1	0	0.19	U	0.19	0.63	0
	AS	ARSENIC		MG/KG	65	J / 4L	2.1	3.1	0	46	J / 4L	0.44	0.63	0
	BA	BARIUM		MG/KG	50	J / 4L	1.2	3.1	0	110	J / 4L	0.25	0.63	0
	BE	BERYLLIUM		MG/KG	0.61	UJ / 4L	0.61	1.8	0	0.3	J / T,4L	0.13	0.38	0
	CD	CADMIUM		MG/KG	0.37	U	0.37	3.1	0	0.076	U	0.076	0.63	0
	CO	COBALT		MG/KG	4.8	J / 4L	0.49	3.1	0	5	J / 4L	0.1	0.63	0
	CR	CHROMIUM, TOTAL		MG/KG	8.6	J / 4L	2.1	6.1	0	12	J / 4L	0.44	1.3	0
	CU	COPPER		MG/KG	330		2.3	6.1	0	210		0.48	1.3	0
	MO	MOLYBDENUM		MG/KG	7.6	J / 4L	0.61	6.1	0	1.8	J / 4L	0.13	1.3	0
	NI	NICKEL		MG/KG	4.8	J / T,4L	2.8	6.1	0	8.7	J / 4L	0.57	1.3	0
	PB	LEAD		MG/KG	14		0.92	3.1	0	10		0.19	0.63	0
	SB	ANTIMONY		MG/KG	0.61	UJ / 4L	0.61	6.1	0	0.39	J / T,4L	0.13	1.3	0
	SE	SELENIUM		MG/KG	17	J / 4L	0.92	6.1	0	1.8	J / 4L	0.19	1.3	0
	TL	THALLIUM		MG/KG	30	J / 4L	0.61	3.1	0	3.7	J / 4L	0.13	0.63	0
	V	VANADIUM		MG/KG	39	J / 4L	2.1	6.1	0	47	J / 4L	0.44	1.3	0
	ZN	ZINC		MG/KG	37	J / T,4L	7.9	61	0	36	J / 4L	1.6	13	0
SW7471A	HG	MERCURY		MG/KG	0.53	J / 4H	0.015	0.024	0	0.15	J / 4H	0.015	0.025	0

				Lab Sample	IRJ1929-17					IRJ1929-18				
				Field Sample	OU4-UEP-43A-SC					OU4-UEP-43B-SC				
				Collect Date	2008-10-16 09:10:00					2008-10-16 09:10:00				
				Type	N					N				
				Parent										
Method	**CAS Number**	**Chemical Name**	**Total or Dissolved**	**Units**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**	**Result**	**Qual / Reason**	**MDL**	**RDL**	**Uncert**
E160.3	SOLID	SOLIDS, PERCENT		PERCENT	82		0.1	0.1	0	87		0.1	0.1	0
SW6010B	AL	ALUMINUM		MG/KG	3000	J / 5	31	61	0	7700	J / 5	5.7	11	0
	B	BORON		MG/KG	23	J / T,4L,5	13	31	0	7.3	J / 4L,5	2.4	5.7	0
	CA	CALCIUM		MG/KG	41000	J / 5	38	92	0	3600	J / 5	7.2	17	0
	FE	IRON		MG/KG	200000	J / 5	18	61	0	19000	J / 5	1.7	5.7	0
	K	POTASSIUM		MG/KG	9000		230	610	0	1600		22	57	0
	MG	MAGNESIUM		MG/KG	1800	J / 5	6.1	61	0	2500	J / 5	1.1	11	0
	MN	MANGANESE		MG/KG	120	J / 4L,5	4.9	6.1	0	120	J / 4L,5	0.92	1.1	0
	NA	SODIUM		MG/KG	23000		290	610	0	940		28	57	0
	SI	SILICON		MG/KG	300	J / 4L,5	21	130	0	130	J / 4L,5	4	25	0
SW6020	AG	SILVER		MG/KG	0.92	U	0.92	3.1	0	0.17	U	0.17	0.57	0
	AS	ARSENIC		MG/KG	71	J / 4L	2.1	3.1	0	68	J / 4L	0.4	0.57	0
	BA	BARIUM		MG/KG	55	J / 4L	1.2	3.1	0	60	J / 4L	0.23	0.57	0
	BE	BERYLLIUM		MG/KG	0.61	UJ / 4L	0.61	1.8	0	0.16	J / T,4L	0.11	0.34	0
	CD	CADMIUM		MG/KG	0.37	U	0.37	3.1	0	0.069	U	0.069	0.57	0
	CO	COBALT		MG/KG	6	J / 4L	0.49	3.1	0	3.5	J / 4L	0.092	0.57	0
	CR	CHROMIUM, TOTAL		MG/KG	9.8	J / 4L	2.1	6.1	0	10	J / 4L	0.4	1.1	0
	CU	COPPER		MG/KG	230		2.3	6.1	0	60		0.44	1.1	0
	MO	MOLYBDENUM		MG/KG	13	J / 4L	0.61	6.1	0	0.94	J / T,4L	0.11	1.1	0
	NI	NICKEL		MG/KG	8.2	J / 4L	2.8	6.1	0	5.7	J / 4L	0.52	1.1	0
	PB	LEAD		MG/KG	46		0.92	3.1	0	4.8		0.17	0.57	0
	SB	ANTIMONY		MG/KG	0.75	J / T,4L	0.61	6.1	0	0.36	J / T,4L	0.11	1.1	0
	SE	SELENIUM		MG/KG	42	J / 4L	0.92	6.1	0	2.4	J / 4L	0.17	1.1	0
	TL	THALLIUM		MG/KG	39	J / 4L	0.61	3.1	0	5.1	J / 4L	0.11	0.57	0
	V	VANADIUM		MG/KG	36	J / 4L	2.1	6.1	0	33	J / 4L	0.4	1.1	0
	ZN	ZINC		MG/KG	27	J / T,4L	8	61	0	22	J / 4L	1.5	11	0
SW7471A	HG	MERCURY		MG/KG	1.2	J / 4H	0.015	0.025	0	0.067	J / 4H	0.014	0.023	0

8.0 SUPPORTING DOCUMENTATION

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

Client:	Brown and Caldwell	**Date Sampled:**	10/8/2008 to 10/9/2008
Project:	BP Yerington, NV, Soils BP Yerington OU4 Phase I	**Date Received:**	10/10/2008
Lab:	IRJ1092		

SAMPLE RECEIPT: Samples were received intact, on ice, with custody seals and chain of custody documentation. The sample temperature was measured at 8.4° C upon receipt at the laboratory.

≤6 for Hg

HOLDING TIMES: All samples were analyzed within holding times.

Table 4-2

PROBLEMS ENCOUNTERED: No problems were encountered during sample analysis.

QA/QC CRITERIA: Calcium was detected in the Method Blank of batch 8J18048.

Magnesium was detected in the Method Blank of batch 8J18048.

Potassium was detected in the Method Blank of batch 8J18048.

Silicon was detected in the Method Blank of batch 8J18048.

Mercury was detected in the Method Blank of batch 8J14087.

The MS and/or MSD recoveries for Manganese were above acceptance limits due to sample matrix interference for EPA 6010B QC batch 8J18048. See LCS.

The MS and/or MSD recoveries for Potassium were above acceptance limits due to sample matrix interference for EPA 6010B QC batch 8J18048. See LCS.

The MS and/or MSD recoveries for Sodium were above acceptance limits due to sample matrix interference for EPA 6010B QC batch 8J18048. See LCS.

The MS and/or MSD recoveries for Silicon were below acceptance limits due to sample matrix interference for EPA 6010B QC batch 8J18048. See LCS.

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

Client:	Brown and Caldwell	**Date Sampled:**	10/8/2008 to 10/9/2008
Project:	BP Yerington, NV, Soils BP Yerington OU4 Phase I	**Date Received:**	10/10/2008
Lab:	IRJ1092		

The MS and/or MSD recoveries for Antimony were below acceptance limits due to sample matrix interference for EPA 6020 QC batch 8J17135. See LCS.

Due to high levels of Aluminum in the source, sample 8J18048-MS1 does not provide useful spike recovery information for EPA 6010B QC batch 8J18048. See LCS.

Due to high levels of Aluminum in the source, sample 8J18048-MSD1 does not provide useful spike recovery information for EPA 6010B QC batch 8J18048. See LCS.

Due to high levels of Calcium in the source, sample 8J18048-MS1 does not provide useful spike recovery information for EPA 6010B QC batch 8J18048. See LCS.

Due to high levels of Calcium in the source, sample 8J18048-MSD1 does not provide useful spike recovery information for EPA 6010B QC batch 8J18048. See LCS.

Due to high levels of Iron in the source, sample 8J18048-MS1 does not provide useful spike recovery information for EPA 6010B QC batch 8J18048. See LCS.

Due to high levels of Iron in the source, sample 8J18048-MSD1 does not provide useful spike recovery information for EPA 6010B QC batch 8J18048. See LCS.

Due to high levels of Magnesium in the source, sample 8J18048-MS1 does not provide useful spike recovery information for EPA 6010B QC batch 8J18048. See LCS.

Due to high levels of Magnesium in the source, sample 8J18048-MSD1 does not provide useful spike recovery information for EPA 6010B QC batch 8J18048. See LCS.

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

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THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

Client:	Brown and Caldwell	**Date Sampled:**	10/8/2008 to 10/9/2008
Project:	BP Yerington, NV, Soils BP Yerington OU4 Phase I	**Date Received:**	10/10/2008
Lab:	IRJ1092		

Boron reporting limit was raised due to sample matrix effects for EPA 6010B sample IRJ1092-01.

Boron reporting limit was raised due to sample matrix effects for EPA 6010B sample IRJ1092-02.

Boron reporting limit was raised due to sample matrix effects for EPA 6010B sample IRJ1092-03.

Boron reporting limit was raised due to sample matrix effects for EPA 6010B sample IRJ1092-04.

Boron reporting limit was raised due to sample matrix effects for EPA 6010B sample IRJ1092-05.

ADDITIONAL INFORMATION: This report was revised on 12/17/08 to include dry-weight correction of sample results. The % solids data used to calculate dry weight was determined by the TestAmerica-Richland, WA laboratory

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

TestAmerica Irvine

Patty Mata
Project Manager

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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
BP Yerington OU4 Phase I

Sampled: 10/08/08-10/09/08
Received: 10/10/08
Issued: 10/28/08 10:04

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 applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. 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, 2 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
IRJ1092-01	OU4-UEP-08A-SC	Soil
IRJ1092-02	OU4-UEP-08A-SC-FD	Soil
IRJ1092-03	OU4-UEP-08B-SC	Soil
IRJ1092-04	OU4-UEP-08B-SC-FD	Soil
IRJ1092-05	OU4-UEP-11B-SC	Soil
IRJ1092-06	OU4-UEP-11A-SC	Soil

Reviewed By:

TestAmerica Irvine

Patty Mata
Project Manager

Atlantic Richfield Company
bp
A BP affiliated company

Chain of Custody Record

Project Name: OU4 Phase I
BP BU/AR Region/Enfos Segment:
State or Lead Regulatory Agency: EPA Region 9
Requested Due Date (mm/dd/yy): NA

1KV
Soil / Geochemical

COC # YER 2017C

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name:	Test America-Irvine	BP/AR Facility No.:		Consultant/Contractor:	Brown and Caldwell
Address:	Derian Avenue, Suite	BP/AR Facility Address:	Yerington, NV	Address:	3264 Goni Rd
	Irvine, CA 92614	Site Lat/Long:	NA		Carson City, NV 89706
Lab PM:	Patty Mata	California Global ID No	NA	Consultant/Contractor Project No.:	136259
Tele/Fax:	949-261-1022 (x213)	Enfos Project No.:	001KF-0193	Consultant/Contractor PM:	Penny Bassett
BP/AR EBM:	Roy Thun	Provision or OOC (circle one)		Tele/Fax:	775-315-4343
Address:	6 Centerpoint Avenue	Phase/WBS:	32	Report Type & QC Level:	LEVEL II
	La Palma, CA 90623	Sub Phase/Task:	03	E-mail EDD To:	skocsis@brwncald.com
Tele/Fax:	661-287-3855	Cost Element:	05	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)	

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air		Laboratory No. IRJ1092	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Preservative: <6°C	Requested Analysis: Metals (6010/6020)	Requested Analysis: Mercury (7471)								Sample Point Lat/Long and Comments
1	OU4-UEP-08A-SC-	1400	10/8/08	X					1	X					+	X	X								3-6' bgs
2	OU4-UEP-08A-SC-FD	1400	↓	X					1						X	X	X								
3	OU4-UEP-08B-SC	1430	↓	X					1						+	X	X								10-13' bgs
4	OU4-UEP-08B-SC-FD	1430	↓	X					1						X	X	X								
5																									
6																									
7																									
8																									
9																									
10																									

0.0
10/11/08
7:55

		Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:	Penny Bassett	Penny Bassett	10-8	1500	R Barringer	10-8	1500
Sampler's Company:	Brown+Caldwell	R Barringer	10-9	1380			
Shipment Date:	10-9-08						
Shipment Method:	Fedex						
Shipment Tracking No:	864643261570				Vu Bana	10/10/08	10:2

Special Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 9.1/8.4 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP COC Rev. 5 10/11/2006

0444

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Atlantic Richfield Company
bp
A BP affiliated company

Chain of Custody Record

Project Name: OU4 Phase I
BP BU/AR Region/Enfos Segment:
State or Lead Regulatory Agency: EPA Region 9
Requested Due Date (mm/dd/yy): NA

Soil / IRV INC Geochemical — COC # YER 2018C

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name:	Test America-Irvine	BP/AR Facility No.:		Consultant/Contractor:	Brown and Caldwell
Address:	Derian Avenue, Suite	BP/AR Facility Address:	Yerington, NV	Address:	3264 Goni Rd
	Irvine, CA 92614	Site Lat/Long:	NA		Carson City, NV 89706
Lab PM:	Patty Mata	California Global ID No	NA	Consultant/Contractor Project No.:	136259
Tele/Fax:	949-261-1022 (x213)	Enfos Project No.:	001KF-0193	Consultant/Contractor PM:	Penny Bassett
BP/AR EBM:	Roy Thun	Provision or OOC (circle one)		Tele/Fax:	775-315-4343
Address:	6 Centerpoint Avenue	Phase/WBS:	32	Report Type & QC Level:	LEVEL IV
	La Palma, CA 90623	Sub Phase/Task:	03	E-mail EDD To:	skocsis@brwncald.com
Tele/Fax:	661-287-3855	Cost Element:	05	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)	

Lab Bottle Order No: JRJ1092

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Preservative: <6°C	Requested Analysis: Metals (6010/6020)	Requested Analysis: Mercury (7471)	Sample Point Lat/Long and Comments
1	OU4-UEP-11B SC	0900	10-9	X				1	X					Y	X	X	31'-35' bgs
2	OU4-UEP-11A SC	0800	10-9	Y				1	Y					Y	Y	Y	15'-20' bgs
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

		Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:	Penny Bassett	Penny Bassett	10-9	1025	R Barringer	10-9	1025
Sampler's Company:	Brown & Caldwell	R Barringer	10-9	1350			
Shipment Date:	10-9-08						
Shipment Method:	Fedex						
Shipment Tracking No:	8646-1326 1570				V Bauer	10/10/08	1025

Special Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 9.1/8.4 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

#044

BP COC Rev. 5 10/11/2006

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
BP Yerington OU4 Phase I
Report Number: IRJ1092

Sampled: 10/08/08-10/09/08
Received: 10/10/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1092-01 (OU4-UEP-08A-SC - Soil)					**Sampled: 10/08/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J18048	7.2	45	**330**	2	10/18/08	10/19/08	M2
Sample ID: IRJ1092-02 (OU4-UEP-08A-SC-FD - Soil)					**Sampled: 10/08/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J18048	7.2	45	**360**	2	10/18/08	10/19/08	
Sample ID: IRJ1092-03 (OU4-UEP-08B-SC - Soil)					**Sampled: 10/08/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J18048	7.4	47	**360**	2	10/18/08	10/19/08	
Sample ID: IRJ1092-04 (OU4-UEP-08B-SC-FD - Soil)					**Sampled: 10/08/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J18048	7.4	47	**390**	2	10/18/08	10/19/08	
Sample ID: IRJ1092-05 (OU4-UEP-11B-SC - Soil)					**Sampled: 10/09/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J18048	7.5	47	**400**	2	10/18/08	10/19/08	
Sample ID: IRJ1092-06 (OU4-UEP-11A-SC - Soil)					**Sampled: 10/09/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J18048	7.6	48	**460**	2	10/18/08	10/19/08	
Sample ID: IRJ1092-01 (OU4-UEP-08A-SC - Soil)					**Sampled: 10/08/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J18048	10	21	**2100**	2	10/18/08	10/19/08	MHA
Antimony	EPA 6020	8J17135	0.10	1.0	**0.25**	1.01	10/17/08	10/18/08	J
Arsenic	EPA 6020	8J18049	0.36	0.52	**17**	1	10/18/08	10/20/08	
Barium	EPA 6020	8J18049	0.21	0.52	**42**	1	10/18/08	10/20/08	
Beryllium	EPA 6020	8J18049	0.10	0.31	ND	1	10/18/08	10/20/08	
Boron	EPA 6010B	8J18048	4.3	10	ND	2	10/18/08	10/19/08	RL1
Cadmium	EPA 6020	8J18049	0.062	0.52	ND	1	10/18/08	10/20/08	
Calcium	EPA 6010B	8J18048	13	31	**2400**	2	10/18/08	10/19/08	MHA
Chromium	EPA 6020	8J18049	0.36	1.0	**3.9**	1	10/18/08	10/20/08	
Cobalt	EPA 6020	8J18049	0.082	0.52	**1.9**	1	10/18/08	10/20/08	
Copper	EPA 6020	8J18049	0.39	1.0	**20**	1	10/18/08	10/20/08	
↑ Iron	EPA 6010B	8J18048	3.1	10	**10000**	2	10/18/08	10/19/08	MHA
Lead	EPA 6020	8J18049	0.15	0.52	**2.5**	1	10/18/08	10/20/08	
Magnesium	EPA 6010B	8J18048	2.1	21	**1000**	2	10/18/08	10/19/08	MHA
Manganese	EPA 6010B	8J18048	1.6	2.1	**61**	2	10/18/08	10/19/08	M1
Mercury	EPA 7471A	8J14087	0.012	0.021	**0.015**	1	10/14/08	10/14/08	J
Molybdenum	EPA 6020	8J18049	0.10	1.0	**0.69**	1	10/18/08	10/20/08	J
Nickel	EPA 6020	8J18049	0.46	1.0	**2.4**	1	10/18/08	10/20/08	
Potassium	EPA 6010B	8J18048	39	100	**520**	2	10/18/08	10/19/08	M1
Selenium	EPA 6020	8J18049	0.15	1.0	**0.55**	1	10/18/08	10/20/08	J

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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
BP Yerington OU4 Phase I
Report Number: IRJ1092

Sampled: 10/08/08-10/09/08
Received: 10/10/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1092-01 (OU4-UEP-08A-SC - Soil) - cont.					**Sampled: 10/08/08**				
Reporting Units: mg/kg dry									
Silver	EPA 6020	8J18049	0.15	0.52	ND	1	10/18/08	10/20/08	
Sodium	EPA 6010B	8J18048	49	100	**370**	2	10/18/08	10/19/08	M1
Thallium	EPA 6020	8J18049	0.10	0.52	**2.7**	1	10/18/08	10/20/08	
Vanadium	EPA 6020	8J18049	0.36	1.0	**19**	1	10/18/08	10/20/08	
Zinc	EPA 6020	8J18049	1.3	10	**11**	1	10/18/08	10/20/08	

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Project ID: BP Yerington, NV, Soils
BP Yerington OU4 Phase I
Report Number: IRJ1092

Sampled: 10/08/08-10/09/08
Received: 10/10/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1092-02 (OU4-UEP-08A-SC-FD - Soil)					**Sampled: 10/08/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J18048	10	21	**3000**	2	10/18/08	10/19/08	
Antimony	EPA 6020	8J17135	0.10	1.0	**0.26**	1.01	10/17/08	10/18/08	J
Arsenic	EPA 6020	8J18049	0.36	0.52	**18**	1	10/18/08	10/20/08	
Barium	EPA 6020	8J18049	0.21	0.52	**49**	1	10/18/08	10/20/08	
Beryllium	EPA 6020	8J18049	0.10	0.31	ND	1	10/18/08	10/20/08	
Boron	EPA 6010B	8J18048	4.3	10	ND	2	10/18/08	10/19/08	RL1
Cadmium	EPA 6020	8J18049	0.062	0.52	ND	1	10/18/08	10/20/08	
Calcium	EPA 6010B	8J18048	13	31	**2900**	2	10/18/08	10/19/08	
Chromium	EPA 6020	8J18049	0.36	1.0	**6.2**	1	10/18/08	10/20/08	
Cobalt	EPA 6020	8J18049	0.082	0.52	**2.1**	1	10/18/08	10/20/08	
Copper	EPA 6020	8J18049	0.39	1.0	**21**	1	10/18/08	10/20/08	
↑ **Iron**	EPA 6010B	8J18048	3.1	10	**13000**	2	10/18/08	10/19/08	
Lead	EPA 6020	8J18049	0.15	0.52	**4.0**	1	10/18/08	10/20/08	
Magnesium	EPA 6010B	8J18048	2.1	21	**1100**	2	10/18/08	10/19/08	
Manganese	EPA 6010B	8J18048	1.6	2.1	**70**	2	10/18/08	10/19/08	
Mercury	EPA 7471A	8J14087	0.012	0.021	**0.015**	1	10/14/08	10/14/08	J
Molybdenum	EPA 6020	8J18049	0.10	1.0	**1.2**	1	10/18/08	10/20/08	
Nickel	EPA 6020	8J18049	0.46	1.0	**2.8**	1	10/18/08	10/20/08	
Potassium	EPA 6010B	8J18048	39	100	**580**	2	10/18/08	10/19/08	
Selenium	EPA 6020	8J18049	0.15	1.0	**0.57**	1	10/18/08	10/20/08	J
Silver	EPA 6020	8J18049	0.15	0.52	ND	1	10/18/08	10/20/08	
Sodium	EPA 6010B	8J18048	49	100	**420**	2	10/18/08	10/19/08	
Thallium	EPA 6020	8J18049	0.10	0.52	**2.7**	1	10/18/08	10/20/08	
Vanadium	EPA 6020	8J18049	0.36	1.0	**27**	1	10/18/08	10/20/08	
Zinc	EPA 6020	8J18049	1.3	10	**16**	1	10/18/08	10/20/08	

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Attention: Penny Bassett

Project ID: BP Yerington, NV, Soils
BP Yerington OU4 Phase I
Report Number: IRJ1092

Sampled: 10/08/08-10/09/08
Received: 10/10/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1092-03 (OU4-UEP-08B-SC - Soil)					**Sampled: 10/08/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J18048	11	21	**4300**	2	10/18/08	10/19/08	
Antimony	EPA 6020	8J17135	0.11	1.1	**0.26**	1	10/17/08	10/18/08	J
Arsenic	EPA 6020	8J18049	0.37	0.53	**27**	1	10/18/08	10/20/08	
Barium	EPA 6020	8J18049	0.21	0.53	**62**	1	10/18/08	10/20/08	
Beryllium	EPA 6020	8J18049	0.11	0.32	**0.11**	1	10/18/08	10/20/08	J
Boron	EPA 6010B	8J18048	4.4	11	ND	2	10/18/08	10/19/08	RL1
Cadmium	EPA 6020	8J18049	0.064	0.53	ND	1	10/18/08	10/20/08	
Calcium	EPA 6010B	8J18048	13	32	**3900**	2	10/18/08	10/19/08	
Chromium	EPA 6020	8J18049	0.37	1.1	**6.7**	1	10/18/08	10/20/08	
Cobalt	EPA 6020	8J18049	0.085	0.53	**2.9**	1	10/18/08	10/20/08	
Copper	EPA 6020	8J18049	0.40	1.1	**35**	1	10/18/08	10/20/08	
↑ **Iron**	EPA 6010B	8J18048	3.2	11	**13000**	2	10/18/08	10/19/08	
Lead	EPA 6020	8J18049	0.16	0.53	**3.8**	1	10/18/08	10/20/08	
Magnesium	EPA 6010B	8J18048	2.1	21	**2000**	2	10/18/08	10/19/08	
Manganese	EPA 6010B	8J18048	1.7	2.1	**110**	2	10/18/08	10/19/08	
Mercury	EPA 7471A	8J14087	0.013	0.021	**0.020**	1	10/14/08	10/14/08	J
Molybdenum	EPA 6020	8J18049	0.11	1.1	**1.1**	1	10/18/08	10/20/08	
Nickel	EPA 6020	8J18049	0.48	1.1	**3.6**	1	10/18/08	10/20/08	
Potassium	EPA 6010B	8J18048	40	110	**750**	2	10/18/08	10/19/08	
Selenium	EPA 6020	8J18049	0.16	1.1	**0.31**	1	10/18/08	10/20/08	J
Silver	EPA 6020	8J18049	0.16	0.53	ND	1	10/18/08	10/20/08	
Sodium	EPA 6010B	8J18048	51	110	**570**	2	10/18/08	10/19/08	
Thallium	EPA 6020	8J18049	0.11	0.53	**1.7**	1	10/18/08	10/20/08	
Vanadium	EPA 6020	8J18049	0.37	1.1	**31**	1	10/18/08	10/20/08	
Zinc	EPA 6020	8J18049	1.4	11	**17**	1	10/18/08	10/20/08	

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Attention: Penny Bassett

Project ID: BP Yerington, NV, Soils
BP Yerington OU4 Phase I
Report Number: IRJ1092

Sampled: 10/08/08-10/09/08
Received: 10/10/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1092-04 (OU4-UEP-08B-SC-FD - Soil)					**Sampled: 10/08/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J18048	11	21	**5300**	2	10/18/08	10/19/08	
Antimony	EPA 6020	8J17135	0.11	1.1	**0.29**	0.995	10/17/08	10/18/08	J
Arsenic	EPA 6020	8J18049	0.37	0.53	**31**	1	10/18/08	10/20/08	
Barium	EPA 6020	8J18049	0.21	0.53	**77**	1	10/18/08	10/20/08	
Beryllium	EPA 6020	8J18049	0.11	0.32	**0.13**	1	10/18/08	10/20/08	J
Boron	EPA 6010B	8J18048	4.4	11	ND	2	10/18/08	10/19/08	RL1
Cadmium	EPA 6020	8J18049	0.064	0.53	ND	1	10/18/08	10/20/08	
Calcium	EPA 6010B	8J18048	13	32	**4200**	2	10/18/08	10/19/08	
Chromium	EPA 6020	8J18049	0.37	1.1	**7.9**	1	10/18/08	10/20/08	
Cobalt	EPA 6020	8J18049	0.085	0.53	**3.4**	1	10/18/08	10/20/08	
Copper	EPA 6020	8J18049	0.40	1.1	**40**	1	10/18/08	10/20/08	
↑ **Iron**	EPA 6010B	8J18048	3.2	11	**15000**	2	10/18/08	10/19/08	
Lead	EPA 6020	8J18049	0.16	0.53	**4.0**	1	10/18/08	10/20/08	
Magnesium	EPA 6010B	8J18048	2.1	21	**2300**	2	10/18/08	10/19/08	
Manganese	EPA 6010B	8J18048	1.7	2.1	**120**	2	10/18/08	10/19/08	
Mercury	EPA 7471A	8J14087	0.013	0.021	**0.018**	1	10/14/08	10/14/08	J
Molybdenum	EPA 6020	8J18049	0.11	1.1	**1.4**	1	10/18/08	10/20/08	
Nickel	EPA 6020	8J18049	0.48	1.1	**4.0**	1	10/18/08	10/20/08	
Potassium	EPA 6010B	8J18048	40	110	**870**	2	10/18/08	10/19/08	
Selenium	EPA 6020	8J18049	0.16	1.1	**0.42**	1	10/18/08	10/20/08	J
Silver	EPA 6020	8J18049	0.16	0.53	ND	1	10/18/08	10/20/08	
Sodium	EPA 6010B	8J18048	51	110	**660**	2	10/18/08	10/19/08	
Thallium	EPA 6020	8J18049	0.11	0.53	**2.0**	1	10/18/08	10/20/08	
Vanadium	EPA 6020	8J18049	0.37	1.1	**37**	1	10/18/08	10/20/08	
Zinc	EPA 6020	8J18049	1.4	11	**19**	1	10/18/08	10/20/08	

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Project ID: BP Yerington, NV, Soils
BP Yerington OU4 Phase I
Report Number: IRJ1092

Sampled: 10/08/08-10/09/08
Received: 10/10/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1092-05 (OU4-UEP-11B-SC - Soil)					**Sampled: 10/09/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J18048	11	22	**12000**	2	10/18/08	10/19/08	
Antimony	EPA 6020	8J17135	0.11	1.1	**0.38**	0.995	10/17/08	10/18/08	J
Arsenic	EPA 6020	8J18049	0.38	0.54	**6.3**	1	10/18/08	10/20/08	
Barium	EPA 6020	8J18049	0.22	0.54	**100**	1	10/18/08	10/20/08	
Beryllium	EPA 6020	8J18049	0.11	0.32	**0.37**	1	10/18/08	10/20/08	
Boron	EPA 6010B	8J18048	4.5	11	ND	2	10/18/08	10/19/08	RL1
Cadmium	EPA 6020	8J18049	0.065	0.54	ND	1	10/18/08	10/20/08	
Calcium	EPA 6010B	8J18048	13	32	**3200**	2	10/18/08	10/19/08	
Chromium	EPA 6020	8J18049	0.38	1.1	**8.0**	1	10/18/08	10/20/08	
Cobalt	EPA 6020	8J18049	0.086	0.54	**6.3**	1	10/18/08	10/20/08	
Copper	EPA 6020	8J18049	0.41	1.1	**30**	1	10/18/08	10/20/08	
Iron	EPA 6010B	8J18048	3.2	11	**18000**	2	10/18/08	10/19/08	
Lead	EPA 6020	8J18049	0.16	0.54	**6.6**	1	10/18/08	10/20/08	
Magnesium	EPA 6010B	8J18048	2.2	22	**5800**	2	10/18/08	10/19/08	
Manganese	EPA 6010B	8J18048	1.7	2.2	**540**	2	10/18/08	10/19/08	
Mercury	EPA 7471A	8J14087	0.013	0.022	**0.022**	1	10/14/08	10/14/08	
Molybdenum	EPA 6020	8J18049	0.11	1.1	**0.92**	1	10/18/08	10/20/08	J
Nickel	EPA 6020	8J18049	0.48	1.1	**7.7**	1	10/18/08	10/20/08	
Potassium	EPA 6010B	8J18048	41	110	**1900**	2	10/18/08	10/19/08	
Selenium	EPA 6020	8J18049	0.16	1.1	**0.21**	1	10/18/08	10/20/08	J
Silver	EPA 6020	8J18049	0.16	0.54	ND	1	10/18/08	10/20/08	
Sodium	EPA 6010B	8J18048	52	110	**1000**	2	10/18/08	10/19/08	
Thallium	EPA 6020	8J18049	0.11	0.54	**0.20**	1	10/18/08	10/20/08	J
Vanadium	EPA 6020	8J18049	0.38	1.1	**35**	1	10/18/08	10/20/08	
Zinc	EPA 6020	8J18049	1.4	11	**36**	1	10/18/08	10/20/08	

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Project ID: BP Yerington, NV, Soils
BP Yerington OU4 Phase I
Report Number: IRJ1092

Sampled: 10/08/08-10/09/08
Received: 10/10/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1092-06 (OU4-UEP-11A-SC - Soil)					**Sampled: 10/09/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J18048	11	22	**12000**	2	10/18/08	10/19/08	
Antimony	EPA 6020	8J17135	0.11	1.1	**0.32**	1.01	10/17/08	10/18/08	J
Arsenic	EPA 6020	8J18049	0.38	0.54	**13**	1	10/18/08	10/20/08	
Barium	EPA 6020	8J18049	0.22	0.54	**81**	1	10/18/08	10/20/08	
Beryllium	EPA 6020	8J18049	0.11	0.32	**0.39**	1	10/18/08	10/20/08	
Boron	EPA 6010B	8J18048	4.5	11	**13**	2	10/18/08	10/19/08	
Cadmium	EPA 6020	8J18049	0.065	0.54	ND	1	10/18/08	10/20/08	
Calcium	EPA 6010B	8J18048	13	32	**7400**	2	10/18/08	10/19/08	
Chromium	EPA 6020	8J18049	0.38	1.1	**5.8**	1	10/18/08	10/20/08	
Cobalt	EPA 6020	8J18049	0.086	0.54	**3.9**	1	10/18/08	10/20/08	
Copper	EPA 6020	8J18049	0.41	1.1	**22**	1	10/18/08	10/20/08	
Iron	EPA 6010B	8J18048	3.2	11	**12000**	2	10/18/08	10/19/08	
Lead	EPA 6020	8J18049	0.16	0.54	**5.8**	1	10/18/08	10/20/08	
Magnesium	EPA 6010B	8J18048	2.2	22	**3700**	2	10/18/08	10/19/08	
Manganese	EPA 6010B	8J18048	1.7	2.2	**350**	2	10/18/08	10/19/08	
Mercury	EPA 7471A	8J14087	0.013	0.022	**0.037**	1	10/14/08	10/14/08	
Molybdenum	EPA 6020	8J18049	0.11	1.1	**0.76**	1	10/18/08	10/20/08	J
Nickel	EPA 6020	8J18049	0.49	1.1	**5.7**	1	10/18/08	10/20/08	
Potassium	EPA 6010B	8J18048	41	110	**2100**	2	10/18/08	10/19/08	
Selenium	EPA 6020	8J18049	0.16	1.1	**0.34**	1	10/18/08	10/20/08	J
Silver	EPA 6020	8J18049	0.16	0.54	ND	1	10/18/08	10/20/08	
Sodium	EPA 6010B	8J18048	52	110	**3700**	2	10/18/08	10/19/08	
Thallium	EPA 6020	8J18049	0.11	0.54	**0.16**	1	10/18/08	10/20/08	J
Vanadium	EPA 6020	8J18049	0.38	1.1	**46**	1	10/18/08	10/20/08	
Zinc	EPA 6020	8J18049	1.4	11	**26**	1	10/18/08	10/20/08	

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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
BP Yerington OU4 Phase I
Report Number: IRJ1092

Sampled: 10/08/08-10/09/08
Received: 10/10/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1092-01 (OU4-UEP-08A-SC - Soil)					**Sampled: 10/08/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10129	0.10	0.10	**97**	1	12/08/08	12/08/08	
Sample ID: IRJ1092-02 (OU4-UEP-08A-SC-FD - Soil)					**Sampled: 10/08/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10129	0.10	0.10	**97**	1	12/08/08	12/08/08	
Sample ID: IRJ1092-03 (OU4-UEP-08B-SC - Soil)					**Sampled: 10/08/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10129	0.10	0.10	**94**	1	12/08/08	12/08/08	
Sample ID: IRJ1092-04 (OU4-UEP-08B-SC-FD - Soil)					**Sampled: 10/08/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10129	0.10	0.10	**94**	1	12/08/08	12/08/08	
Sample ID: IRJ1092-05 (OU4-UEP-11B-SC - Soil)					**Sampled: 10/09/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10129	0.10	0.10	**93**	1	12/08/08	12/08/08	
Sample ID: IRJ1092-06 (OU4-UEP-11A-SC - Soil)					**Sampled: 10/09/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10129	0.10	0.10	**93**	1	12/08/08	12/08/08	

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Patty Mata
Project Manager

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Inorganic Analyses Support Documentation

Environmental Standards Project Name: Arco - Yerington
Sample Collection Dates: 10/8-9/08
Job Number: 20085047.A
Project Manager: Dya
Laboratory: TestAmerica

Reviewed By: THW
Approved By:
Completion Date:

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

Sample No.	Lab. Control No.
IRJ1092	

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

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

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

Comments:

BLANK ANALYSIS RESULTS FOR INORGANIC PARAMETERS

MATRIX (Aq., S)	BLANK TYPE (✓) METHOD ICB	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			✓				8J18048 - BLK 1	calcium	12.5		62.5
								magnesium	2.28		11.4
								potassium	20.8		104
								silicon	6.27		31.4
							8J14087 - BLK 1	mercury	0.0125		0.0625

Aq. = Aqueous; S = Solid

Notes:

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	OU4-UEP-08A-SC Analyte Concentration	Qual	RL	OU4-UEP-08A-SC-FD Analyte Concentration	Qual	RL	Difference	RPD	Notes
aluminum	2100		21	3000		21	NA	35.29%	IN
antimony	0.25	J	1	0.26	J	1	0.01	NA	IN
arsenic	17		0.52	18		0.52	NA	5.71%	IN
barium	42		0.52	49		0.52	NA	15.38%	IN
calcium	2400		31	2900		31	NA	18.87%	IN
chromium ✓	3.9		1	6.2		1	2.3	NA	2
cobalt	1.9		0.52	2.1		0.52	0.2	NA	IN
copper	20		1	21		1	NA	4.88%	IN
iron	10000		10	13000		10	NA	26.09%	IN
lead ✓	2.5		0.52	4		0.52	1.5	NA	2
magnesium	1000		21	1100		21	NA	9.52%	IN
manganese	61		2.1	70		2.1	NA	13.74%	IN
mercury	0.015	B	0.021	0.015	B	0.021	0	NA	IN
molybdenum	0.69	J	1	1.2		1	0.51	NA	IN
nickel	2.4		1	2.8		1	0.4	NA	IN
potassium	520		100	580		100	NA	10.91%	IN
selenium	0.55	J	1	0.57	J	1	0.02	NA	IN
sodium	370		100	420		100	50	NA	IN
thallium	2.7		0.52	2.7		0.52	NA	0.00%	IN
vanadium	19		1	27		1	NA	34.78%	IN
zinc	11		10	16		10	5	NA	IN
silicon	330		45	360		45	NA	8.70%	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".

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	OU4-UEP-08B-SC Analyte Concentration	Qual	RL	OU4-UEP-08B-SC-FD Analyte Concentration	Qual	RL	Difference	RPD	Notes
aluminum	4300		21	5300		21	NA	20.83%	IN
antimony	0.26	J	1.1	0.29	J	1.1	0.03	NA	IN
arsenic	27		0.53	31		0.53	NA	13.79%	IN
barium	62		0.53	77		0.53	NA	21.58%	IN
beryllium	0.11	J	0.32	0.13	J	0.32	0.02	NA	IN
calcium	3900		32	4200		32	NA	7.41%	IN
chromium	6.7		1.1	7.9		1.1	NA	16.44%	IN
cobalt	2.9		0.53	3.4		0.53	NA	15.87%	IN
copper	35		1.1	40		1.1	NA	13.33%	IN
iron	13000		11	15000		11	NA	14.29%	IN
lead	3.8		0.53	4		0.53	NA	5.13%	IN
magnesium	2000		21	2300		21	NA	13.95%	IN
manganese	110		2.1	120		2.1	NA	8.70%	IN
mercury	0.02	B	0.021	0.018	B	0.021	0.002	NA	IN
molybdenum	1.1		1.1	1.4		1.1	0.3	NA	IN
nickel	3.6		1.1	4		1.1	0.4	NA	IN
potassium	750		110	870		110	NA	14.81%	IN
selenium	0.31	J	1.1	0.42	J	1.1	0.11	NA	IN
sodium	570		110	660		110	NA	14.63%	IN
thallium	1.7		0.53	2		0.53	0.3	NA	IN
vanadium	31		1.1	37		1.1	NA	17.65%	IN
zinc	17		11	19		11	2	NA	IN
silicon	360		47	390		47	NA	8.00%	IN

NOTES:

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

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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".

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Project ID: BP Yerington, NV, Soils
BP Yerington OU4 Phase I
Report Number: IRJ1092

Sampled: 10/08/08-10/09/08
Received: 10/10/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J14087 Extracted: 10/14/08											
Blank Analyzed: 10/14/2008 (8J14087-BLK1)											
Mercury	0.0125	0.020	0.012	mg/kg wet							J
LCS Analyzed: 10/14/2008 (8J14087-BS1)											
Mercury	0.823	0.020	0.012	mg/kg wet	0.800		103	85-120			
Matrix Spike Analyzed: 10/14/2008 (8J14087-MS1)						Source: IRJ0895-01					
Mercury	1.01	0.022	0.013	mg/kg dry	0.895	0.0978	102	65-135			
Matrix Spike Dup Analyzed: 10/14/2008 (8J14087-MSD1)						Source: IRJ0895-01					
Mercury	1.03	0.022	0.013	mg/kg dry	0.895	0.0978	105	65-135	2	20	
Batch: 8J17135 Extracted: 10/17/08											
Blank Analyzed: 10/18/2008 (8J17135-BLK1)											
Antimony	ND	1.0	0.10	mg/kg wet							
LCS Analyzed: 10/18/2008 (8J17135-BS1)											
Antimony	44.7	1.0	0.10	mg/kg wet	50.0		89	80-120			
Matrix Spike Analyzed: 10/18/2008 (8J17135-MS1)						Source: IRJ0868-01					
Antimony	36.4	1.1	0.11	mg/kg dry	54.1	0.386	67	75-125			M2
Matrix Spike Dup Analyzed: 10/18/2008 (8J17135-MSD1)						Source: IRJ0868-01					
Antimony	35.9	1.1	0.11	mg/kg dry	54.1	0.386	66	75-125	1	20	M2
Batch: 8J18048 Extracted: 10/18/08											
Blank Analyzed: 10/19/2008 (8J18048-BLK1)											
Aluminum	ND	10	5.0	mg/kg wet							
Boron	ND	5.0	2.1	mg/kg wet							
Calcium	12.5	15	6.2	mg/kg wet							J
Iron	ND	5.0	1.5	mg/kg wet							
Magnesium	2.28	10	1.0	mg/kg wet							J
Manganese	ND	1.0	0.80	mg/kg wet							
Potassium	20.8	50	19	mg/kg wet							J
Silicon	6.27	22	3.fig/kg as Silica we								J
Sodium	ND	50	24	mg/kg wet							

project sample
~~Batch QC~~

project sample
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Report Number: IRJ1092

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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: 8J18048 Extracted: 10/18/08											
LCS Analyzed: 10/19/2008 (8J18048-BS1)											
Aluminum	49.1	10	5.0	mg/kg wet	50.0		98	80-120			
Boron	45.2	5.0	2.1	mg/kg wet	50.0		90	80-120			
Calcium	239	15	6.2	mg/kg wet	250		96	80-120			
Iron	47.3	5.0	1.5	mg/kg wet	50.0		95	80-120			
Magnesium	228	10	1.0	mg/kg wet	250		91	80-120			
Manganese	45.0	1.0	0.80	mg/kg wet	50.0		90	80-120			
Potassium	449	50	19	mg/kg wet	500		90	80-120			
Silicon	580	22	3.6	mg/kg as Silica wet	535		108	80-120			
Sodium	472	50	24	mg/kg wet	500		94	80-120			
Matrix Spike Analyzed: 10/19/2008 (8J18048-MS1)						**Source: IRJ1092-01**					
Aluminum	4350	21	10	mg/kg dry	51.5	2100	4360	75-125			*MHA*
Boron	40.9	10	4.3	mg/kg dry	51.5	ND	79	75-125			
Calcium	3680	31	13	mg/kg dry	258	2430	483	75-125			*MHA*
Iron	14600	10	3.1	mg/kg dry	51.5	10100	8550	75-125			*MHA*
Magnesium	1640	21	2.1	mg/kg dry	258	1050	232	75-125			*MHA*
Manganese	132	2.1	1.6	mg/kg dry	51.5	60.8	138	75-125			*M1*
Potassium	1310	100	39	mg/kg dry	515	518	154	75-125			*M1*
Silicon	690	45	7.2	mg/kg as Silica dry	552	333	65	75-125			*M2*
Sodium	1050	100	49	mg/kg dry	515	368	131	75-125			*M1*
Matrix Spike Dup Analyzed: 10/19/2008 (8J18048-MSD1)						**Source: IRJ1092-01**					
Aluminum	3530	21	10	mg/kg dry	51.5	2100	2780	75-125	21	20	*MHA*
Boron	43.6	10	4.3	mg/kg dry	51.5	ND	85	75-125	6	20	
Calcium	2950	31	13	mg/kg dry	258	2430	200	75-125	22	20	*MHA*
Iron	11800	10	3.1	mg/kg dry	51.5	10100	3170	75-125	21	20	*MHA*
Magnesium	1510	21	2.1	mg/kg dry	258	1050	179	75-125	9	20	*MHA*
Manganese	116	2.1	1.6	mg/kg dry	51.5	60.8	107	75-125	13	20	
Potassium	1160	100	39	mg/kg dry	515	518	124	75-125	13	20	
Silicon	701	45	7.2	mg/kg as Silica dry	552	333	67	75-125	1	20	*M2*
Sodium	939	100	49	mg/kg dry	515	368	111	75-125	11	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: 8J18049 Extracted: 10/18/08											
Blank Analyzed: 10/20/2008 (8J18049-BLK1)											
Arsenic	ND	0.50	0.35	mg/kg wet							
Barium	ND	0.50	0.20	mg/kg wet							
Beryllium	ND	0.30	0.10	mg/kg wet							
Cadmium	ND	0.50	0.060	mg/kg wet							
Chromium	ND	1.0	0.35	mg/kg wet							
Cobalt	ND	0.50	0.080	mg/kg wet							
Copper	ND	1.0	0.38	mg/kg wet							
Lead	ND	0.50	0.15	mg/kg wet							
Molybdenum	ND	1.0	0.10	mg/kg wet							
Nickel	ND	1.0	0.45	mg/kg wet							
Selenium	ND	1.0	0.15	mg/kg wet							
Silver	ND	0.50	0.15	mg/kg wet							
Thallium	ND	0.50	0.10	mg/kg wet							
Vanadium	ND	1.0	0.35	mg/kg wet							
Zinc	ND	10	1.3	mg/kg wet							
LCS Analyzed: 10/20/2008 (8J18049-BS1)											
Arsenic	45.8	0.50	0.35	mg/kg wet	50.0		92	80-120			
Barium	48.2	0.50	0.20	mg/kg wet	50.0		96	80-120			
Beryllium	44.2	0.30	0.10	mg/kg wet	50.0		88	80-120			
Cadmium	46.1	0.50	0.060	mg/kg wet	50.0		92	80-120			
Chromium	49.3	1.0	0.35	mg/kg wet	50.0		99	80-120			
Cobalt	48.9	0.50	0.080	mg/kg wet	50.0		98	80-120			
Copper	49.6	1.0	0.38	mg/kg wet	50.0		99	80-120			
Lead	48.8	0.50	0.15	mg/kg wet	50.0		98	80-120			
Molybdenum	47.3	1.0	0.10	mg/kg wet	50.0		95	80-120			
Nickel	48.6	1.0	0.45	mg/kg wet	50.0		97	80-120			
Selenium	42.1	1.0	0.15	mg/kg wet	50.0		84	80-120			
Silver	24.9	0.50	0.15	mg/kg wet	25.0		100	80-120			
Thallium	48.3	0.50	0.10	mg/kg wet	50.0		97	80-120			
Vanadium	48.4	1.0	0.35	mg/kg wet	50.0		97	80-120			
Zinc	43.2	10	1.3	mg/kg wet	50.0		86	80-120			

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METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J18049 Extracted: 10/18/08											
Matrix Spike Analyzed: 10/20/2008 (8J18049-MS1)						**Source: IRJ1092-01**					
Arsenic	59.6	0.52	0.36	mg/kg dry	51.5	17.3	82	75-125			
Barium	103	0.52	0.21	mg/kg dry	51.5	41.9	118	75-125			
Beryllium	40.3	0.31	0.10	mg/kg dry	51.5	ND	78	75-125			
Cadmium	43.0	0.52	0.062	mg/kg dry	51.5	ND	83	75-125			
Chromium	50.7	1.0	0.36	mg/kg dry	51.5	3.91	91	75-125			
Cobalt	46.7	0.52	0.082	mg/kg dry	51.5	1.85	87	75-125			
Copper	67.9	1.0	0.39	mg/kg dry	51.5	20.5	92	75-125			
Lead	51.9	0.52	0.15	mg/kg dry	51.5	2.53	96	75-125			
Molybdenum	45.2	1.0	0.10	mg/kg dry	51.5	0.688	86	75-125			
Nickel	46.7	1.0	0.46	mg/kg dry	51.5	2.39	86	75-125			
Selenium	39.3	1.0	0.15	mg/kg dry	51.5	0.551	75	75-125			
Silver	22.8	0.52	0.15	mg/kg dry	25.8	ND	88	75-125			
Thallium	53.0	0.52	0.10	mg/kg dry	51.5	2.66	98	75-125			
Vanadium	78.0	1.0	0.36	mg/kg dry	51.5	18.6	115	75-125			
Zinc	53.7	10	1.3	mg/kg dry	51.5	10.8	83	75-125			
Matrix Spike Dup Analyzed: 10/20/2008 (8J18049-MSD1)						**Source: IRJ1092-01**					
Arsenic	60.9	0.52	0.36	mg/kg dry	51.5	17.3	85	75-125	2	20	
Barium	93.3	0.52	0.21	mg/kg dry	51.5	41.9	100	75-125	9	20	
Beryllium	40.9	0.31	0.10	mg/kg dry	51.5	ND	79	75-125	2	20	
Cadmium	43.7	0.52	0.062	mg/kg dry	51.5	ND	85	75-125	2	20	
Chromium	50.2	1.0	0.36	mg/kg dry	51.5	3.91	90	75-125	1	20	
Cobalt	47.2	0.52	0.082	mg/kg dry	51.5	1.85	88	75-125	1	20	
Copper	66.8	1.0	0.39	mg/kg dry	51.5	20.5	90	75-125	2	20	
Lead	51.8	0.52	0.15	mg/kg dry	51.5	2.53	96	75-125	0	20	
Molybdenum	45.9	1.0	0.10	mg/kg dry	51.5	0.688	88	75-125	1	20	
Nickel	47.3	1.0	0.46	mg/kg dry	51.5	2.39	87	75-125	1	20	
Selenium	40.1	1.0	0.15	mg/kg dry	51.5	0.551	77	75-125	2	20	
Silver	23.3	0.52	0.15	mg/kg dry	25.8	ND	90	75-125	2	20	
Thallium	52.8	0.52	0.10	mg/kg dry	51.5	2.66	97	75-125	0	20	
Vanadium	66.0	1.0	0.36	mg/kg dry	51.5	18.6	92	75-125	17	20	
Zinc	51.6	10	1.3	mg/kg dry	51.5	10.8	79	75-125	4	20	

TestAmerica Irvine

Patty Mata
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

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

Brown and Caldwell - NV	Project ID: BP Yerington, NV, Soils	
3264 Goni Rd, Ste 153	BP Yerington OU4 Phase I	Sampled: 10/08/08-10/09/08
Carson City, NV 89706	Report Number: IRJ1092	Received: 10/10/08
Attention: Penny Bassett		

DATA QUALIFIERS AND DEFINITIONS

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

TestAmerica Irvine

Patty Mata
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: ICP5
Calibration: I8J1902
Control Limt: +/- 10.00%
Sequence: IJ81902

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ81902-ICV1	Potassium	20.0	20.3	101	mg/l	EPA 6010B	10/19/08 10:07
	Sodium	20.0	19.6	98	mg/l	EPA 6010B	10/19/08 10:07
	Aluminum	2.00	2.18	109	mg/l	EPA 6010B	10/19/08 10:08
	Boron	2.00	2.00	100	mg/l	EPA 6010B	10/19/08 10:08
	Calcium	2.00	1.99	99	mg/l	EPA 6010B	10/19/08 10:08
	Iron	2.00	2.04	102	mg/l	EPA 6010B	10/19/08 10:08
	Magnesium	2.00	2.03	101	mg/l	EPA 6010B	10/19/08 10:08
	Manganese	2.00	1.98	99	mg/l	EPA 6010B	10/19/08 10:08
	Silicon	10.0	10.2	102	mg/l	EPA 6010B	10/19/08 10:08
IJ81902-CCV1	Potassium	10.0	9.88	99	mg/l	EPA 6010B	10/19/08 11:30
	Sodium	10.0	10.0	100	mg/l	EPA 6010B	10/19/08 11:30
	Aluminum	1.00	1.08	108	mg/l	EPA 6010B	10/19/08 11:31
	Boron	1.00	0.980	98	mg/l	EPA 6010B	10/19/08 11:31
	Calcium	10.0	10.1	101	mg/l	EPA 6010B	10/19/08 11:31
	Iron	1.00	1.01	101	mg/l	EPA 6010B	10/19/08 11:31
	Magnesium	1.00	1.03	103	mg/l	EPA 6010B	10/19/08 11:31
	Manganese	1.00	1.01	101	mg/l	EPA 6010B	10/19/08 11:31
	Silicon	5.00	4.89	98	mg/l	EPA 6010B	10/19/08 11:31
IJ81902-CCV2	Potassium	10.0	9.96	100	mg/l	EPA 6010B	10/19/08 12:47
	Sodium	10.0	10.2	102	mg/l	EPA 6010B	10/19/08 12:47
	Aluminum	1.00	1.05	105	mg/l	EPA 6010B	10/19/08 12:48
	Boron	1.00	0.967	97	mg/l	EPA 6010B	10/19/08 12:48
	Calcium	10.0	10.1	101	mg/l	EPA 6010B	10/19/08 12:48
	Iron	1.00	1.01	101	mg/l	EPA 6010B	10/19/08 12:48
	Magnesium	1.00	1.02	102	mg/l	EPA 6010B	10/19/08 12:48
	Manganese	1.00	1.00	100	mg/l	EPA 6010B	10/19/08 12:48
	Silicon	5.00	4.86	97	mg/l	EPA 6010B	10/19/08 12:48
IJ81902-CCV3	Potassium	10.0	9.77	98	mg/l	EPA 6010B	10/19/08 13:59
	Sodium	10.0	10.0	100	mg/l	EPA 6010B	10/19/08 13:59
	Aluminum	1.00	1.03	103	mg/l	EPA 6010B	10/19/08 14:00
	Boron	1.00	0.971	97	mg/l	EPA 6010B	10/19/08 14:00
	Calcium	10.0	10.0	100	mg/l	EPA 6010B	10/19/08 14:00
	Iron	1.00	0.991	99	mg/l	EPA 6010B	10/19/08 14:00
	Magnesium	1.00	0.999	100	mg/l	EPA 6010B	10/19/08 14:00
	Manganese	1.00	0.995	100	mg/l	EPA 6010B	10/19/08 14:00
	Silicon	5.00	4.89	98	mg/l	EPA 6010B	10/19/08 14:00
IJ81902-CCV4	Potassium	10.0	9.95	99	mg/l	EPA 6010B	10/19/08 15:18
	Sodium	10.0	10.1	101	mg/l	EPA 6010B	10/19/08 15:18
	Aluminum	1.00	1.04	104	mg/l	EPA 6010B	10/19/08 15:19
	Boron	1.00	0.962	96	mg/l	EPA 6010B	10/19/08 15:19
	Calcium	10.0	9.97	100	mg/l	EPA 6010B	10/19/08 15:19
	Iron	1.00	1.00	100	mg/l	EPA 6010B	10/19/08 15:19
	Magnesium	1.00	0.999	100	mg/l	EPA 6010B	10/19/08 15:19
	Manganese	1.00	0.990	99	mg/l	EPA 6010B	10/19/08 15:19
	Silicon	5.00	4.87	97	mg/l	EPA 6010B	10/19/08 15:19
IJ81902-CCV5	Potassium	10.0	9.78	98	mg/l	EPA 6010B	10/19/08 16:31

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: ICP5
Calibration: I8J1902
Control Limt: +/- 10.00%
Sequence: IJ81902

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ81902-CCV5	Sodium	10.0	9.91	99	mg/l	EPA 6010B	10/19/08 16:31
	Aluminum	1.00	1.04	104	mg/l	EPA 6010B	10/19/08 16:32
	Boron	1.00	0.960	96	mg/l	EPA 6010B	10/19/08 16:32
	Calcium	10.0	9.84	98	mg/l	EPA 6010B	10/19/08 16:32
	Iron	1.00	1.05	105	mg/l	EPA 6010B	10/19/08 16:32
	Magnesium	1.00	0.996	100	mg/l	EPA 6010B	10/19/08 16:32
	Manganese	1.00	0.982	98	mg/l	EPA 6010B	10/19/08 16:32
	Silicon	5.00	4.84	97	mg/l	EPA 6010B	10/19/08 16:32
IJ81902-CCV6	Potassium	10.0	9.77	98	mg/l	EPA 6010B	10/19/08 17:20
	Sodium	10.0	9.86	99	mg/l	EPA 6010B	10/19/08 17:20
	Aluminum	1.00	1.04	104	mg/l	EPA 6010B	10/19/08 17:21
	Boron	1.00	0.953	95	mg/l	EPA 6010B	10/19/08 17:21
	Calcium	10.0	9.76	98	mg/l	EPA 6010B	10/19/08 17:21
	Iron	1.00	0.990	99	mg/l	EPA 6010B	10/19/08 17:21
	Magnesium	1.00	0.997	100	mg/l	EPA 6010B	10/19/08 17:21
	Manganese	1.00	0.974	97	mg/l	EPA 6010B	10/19/08 17:21
	Silicon	5.00	4.79	96	mg/l	EPA 6010B	10/19/08 17:21

* Values outside of QC limits

CRDL STANDARD

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: ICP5
Calibration: I8J1902
Sequence: IJ81902
Injection Date: 10/19/08 10:19

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IJ81902-CRL1	Potassium	1.00	1.04	104	mg/l	50 - 150
	Sodium	1.00	1.01	101	mg/l	50 - 150
	Aluminum	0.100	0.110	110	mg/l	50 - 150
	Boron	0.100	0.0946	95	mg/l	50 - 150
	Calcium	0.110	0.239	217 *	mg/l	50 - 150
	Iron	0.0800	0.0795	99	mg/l	50 - 150
	Magnesium	0.0400	0.0443	111	mg/l	50 - 150
	Manganese	0.0100	0.0105	105	mg/l	50 - 150
	Silicon	0.0500	0.0471	94	mg/l	50 - 150
IJ81902-CRL2	Potassium	0.200	0.245	123	mg/l	50 - 150
	Sodium	0.200	0.225	113	mg/l	50 - 150
	Aluminum	0.0200	0.0194	97	mg/l	50 - 150
	Boron	0.0200	0.0222	111	mg/l	50 - 150
	Calcium	0.200	0.210	105	mg/l	50 - 150
	Iron	0.0200	0.0204	102	mg/l	50 - 150
	Magnesium	0.0200	0.0163	82	mg/l	50 - 150
	Manganese	0.0200	0.0213	107	mg/l	50 - 150
	Silicon	0.100	0.102	102	mg/l	50 - 150

* Values outside of QC limits

Ca results >> spike
no impact

BLANKS
EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Instrument ID: ICP5
Project: BP Yerington, NV, Soils
Sequence: IJ81902
Calibration: I8J1902

Lab Sample ID	Analyte	MDL (mg/L)	Found	MRL ?	Units	C	Method	Analyzed
IJ81902-ICB1	Potassium	0.78	0.107	0.50	mg/l		EPA 6010B	10/19/08 10:1
	Sodium	1	0.0211	0.50	mg/l		EPA 6010B	10/19/08 10:1
	Aluminum	0.2	-0.00309	0.050	mg/l		EPA 6010B	10/19/08 10:1
	Boron	0.084	0.00553	0.050	mg/l		EPA 6010B	10/19/08 10:1
	Calcium	0.248	0.00149	0.10	mg/l		EPA 6010B	10/19/08 10:1
	Iron	0.06	0.000249	0.040	mg/l		EPA 6010B	10/19/08 10:1
	Magnesium	0.04	0.00366	0.020	mg/l		EPA 6010B	10/19/08 10:1
	Manganese	0.032	0.000411	0.020	mg/l		EPA 6010B	10/19/08 10:1
	Silicon	0.14	0.0105	0.051	mg/l		EPA 6010B	10/19/08 10:1
IJ81902-CCB1	Potassium		0.00665	0.50	mg/l		EPA 6010B	10/19/08 11:3
	Sodium		-0.00101	0.50	mg/l		EPA 6010B	10/19/08 11:3
	Aluminum		0.0298	0.050	mg/l		EPA 6010B	10/19/08 11:3
	Boron		0.00271	0.050	mg/l		EPA 6010B	10/19/08 11:3
	Calcium		0.00367	0.10	mg/l		EPA 6010B	10/19/08 11:3
	Iron		0.000126	0.040	mg/l		EPA 6010B	10/19/08 11:3
	Magnesium		0.00174	0.020	mg/l		EPA 6010B	10/19/08 11:3
	Manganese		0.000492	0.020	mg/l		EPA 6010B	10/19/08 11:3
	Silicon		-0.0000513	0.051	mg/l		EPA 6010B	10/19/08 11:3
IJ81902-CCB2	Potassium		0.103	0.50	mg/l		EPA 6010B	10/19/08 11:4
	Sodium		-0.0342	0.50	mg/l		EPA 6010B	10/19/08 11:4
	Aluminum		-0.00459	0.050	mg/l		EPA 6010B	10/19/08 11:4
	Boron		0.00117	0.050	mg/l		EPA 6010B	10/19/08 11:4
	Calcium		0.000435	0.10	mg/l		EPA 6010B	10/19/08 11:4
	Iron		-0.00131	0.040	mg/l		EPA 6010B	10/19/08 11:4
	Magnesium		0.000839	0.020	mg/l		EPA 6010B	10/19/08 11:4
	Manganese		-0.0000995	0.020	mg/l		EPA 6010B	10/19/08 11:4
	Silicon		0.00216	0.051	mg/l		EPA 6010B	10/19/08 11:4
IJ81902-CCB3	Potassium		0.113	0.50	mg/l		EPA 6010B	10/19/08 12:5
	Sodium		0.0172	0.50	mg/l		EPA 6010B	10/19/08 12:5
	Aluminum		-0.0154	0.050	mg/l		EPA 6010B	10/19/08 12:5
	Boron		0.00415	0.050	mg/l		EPA 6010B	10/19/08 12:5
	Calcium		0.00504	0.10	mg/l		EPA 6010B	10/19/08 12:5
	Iron		0.000979	0.040	mg/l		EPA 6010B	10/19/08 12:5
	Magnesium		-0.000545	0.020	mg/l		EPA 6010B	10/19/08 12:5
	Manganese		0.000263	0.020	mg/l		EPA 6010B	10/19/08 12:5
	Silicon		0.00524	0.051	mg/l		EPA 6010B	10/19/08 12:5
8J18048-BLK1	Potassium		20.8	50	mg/kg		EPA 6010B	10/19/08 13:4
	Sodium		13.9	50	mg/kg		EPA 6010B	10/19/08 13:4
	Aluminum		-1.23	10	mg/kg		EPA 6010B	10/19/08 13:4
	Boron		-0.0328	5.0	mg/kg		EPA 6010B	10/19/08 13:4
	Calcium		12.5	15	mg/kg		EPA 6010B	10/19/08 13:4
	Iron		1.27	5.0	mg/kg		EPA 6010B	10/19/08 13:4
	Magnesium		2.28	10	mg/kg		EPA 6010B	10/19/08 13:4
	Manganese		0.130	1.0	mg/kg		EPA 6010B	10/19/08 13:4
	Silicon		6.27	22	mg/kg as Silica		EPA 6010B	10/19/08 13:4

BLANKS
EPA 6010B

Laboratory: TestAmerica Irvine SDG:

Client: Brown and Caldwell - NV

Instrument ID: ICP5 Project: BP Yerington, NV, Soils

Sequence: IJ81902 Calibration: I8J1902

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
IJ81902-CCB4	Potassium	0.0354	0.50	mg/l		EPA 6010B	10/19/08 14:0
	Sodium	0.0216	0.50	mg/l		EPA 6010B	10/19/08 14:0
	Aluminum	-0.0174	0.050	mg/l		EPA 6010B	10/19/08 14:0
	Boron	0.00241	0.050	mg/l		EPA 6010B	10/19/08 14:0
	Calcium	0.00266	0.10	mg/l		EPA 6010B	10/19/08 14:0
	Iron	0.000292	0.040	mg/l		EPA 6010B	10/19/08 14:0
	Magnesium	-0.00290	0.020	mg/l		EPA 6010B	10/19/08 14:0
	Manganese	0.000121	0.020	mg/l		EPA 6010B	10/19/08 14:0
	Silicon	0.00208	0.051	mg/l		EPA 6010B	10/19/08 14:0
IJ81902-CCB5	Potassium	0.0204	0.50	mg/l		EPA 6010B	10/19/08 15:2
	Sodium	0.0131	0.50	mg/l		EPA 6010B	10/19/08 15:2
	Aluminum	-0.00774	0.050	mg/l		EPA 6010B	10/19/08 15:2
	Boron	0.00227	0.050	mg/l		EPA 6010B	10/19/08 15:2
	Calcium	0.00244	0.10	mg/l		EPA 6010B	10/19/08 15:2
	Iron	0.000808	0.040	mg/l		EPA 6010B	10/19/08 15:2
	Magnesium	-0.00404	0.020	mg/l		EPA 6010B	10/19/08 15:2
	Manganese	0.000138	0.020	mg/l		EPA 6010B	10/19/08 15:2
	Silicon	0.000265	0.051	mg/l		EPA 6010B	10/19/08 15:2
IJ81902-CCB6	Potassium	0.0157	0.50	mg/l		EPA 6010B	10/19/08 16:3
	Sodium	0.0127	0.50	mg/l		EPA 6010B	10/19/08 16:3
	Aluminum	-0.0139	0.050	mg/l		EPA 6010B	10/19/08 16:3
	Boron	0.00363	0.050	mg/l		EPA 6010B	10/19/08 16:3
	Calcium	0.00363	0.10	mg/l		EPA 6010B	10/19/08 16:3
	Iron	0.00262	0.040	mg/l		EPA 6010B	10/19/08 16:3
	Magnesium	0.00138	0.020	mg/l		EPA 6010B	10/19/08 16:3
	Manganese	0.000145	0.020	mg/l		EPA 6010B	10/19/08 16:3
	Silicon	-0.000573	0.051	mg/l		EPA 6010B	10/19/08 16:3
IJ81902-CCB7	Potassium	-0.0400	0.50	mg/l		EPA 6010B	10/19/08 17:2
	Sodium	0.0142	0.50	mg/l		EPA 6010B	10/19/08 17:2
	Aluminum	-0.0131	0.050	mg/l		EPA 6010B	10/19/08 17:2
	Calcium	0.00119	0.10	mg/l		EPA 6010B	10/19/08 17:2
	Iron	0.00112	0.040	mg/l		EPA 6010B	10/19/08 17:2
	Magnesium	0.000424	0.020	mg/l		EPA 6010B	10/19/08 17:2
	Manganese	0.0000342	0.020	mg/l		EPA 6010B	10/19/08 17:2
	Silicon	-0.000193	0.051	mg/l		EPA 6010B	10/19/08 17:2
	Boron	0.00430	0.050	mg/l		EPA 6010B	10/19/08 17:2

ICP
INTERFERENCE CHECK STANDARD SUMMARY

Instrument: **ICP5**
Data File/Seq.#: 081019-1

ICSA File name: 081019-1-005
ICSA Analyzed: Oct/19/08 9:46:51 AM
ICSAB File name: 081019-1-006
ICSAB Analyzed: Oct/19/08 9:55:39 AM

	Analyte	True (mg/L)		Found (mg/L)		% Rec	%Limits	Q	Q
		ICSA	ICSAB	ICSA	ICSAB	(ICSAB)	(ICSAB)	(ICSA)	(ICSAB)
1	Aluminum	500	500	498.615	489.547	98	80-120		
2	Antimony	0	0.5	-0.003	0.498	100	80-120		
3	Arsenic	0	0.5	-0.002	0.499	100	80-120		
4	Barium	0	0.5	0.005	0.493	99	80-120		
5	Beryllium	0	0.5	0	0.49	98	80-120		
6	Boron	0	0.5	-0.044	0.441	88	80-120		
7	Cadmium	0	0.5	-0.002	0.468	94	80-120		
8	Calcium	500	500	463.785	456.314	91	80-120		
9	Chromium	0	0.5	0.006	0.491	98	80-120		
10	Cobalt	0	0.5	0.003	0.471	94	80-120		
11	Copper	0	0.5	0.001	0.519	104	80-120		
12	Iron	200	200	177.944	175.954	88	80-120		
13	Lead	0	0.5	0.002	0.479	96	80-120		
14	Lithium	0	0.5	-0.016	0.44	88	80-120		
15	Magnesium	500	500	495.936	486.489	97	80-120		
16	Manganese	0	0.5	-0.004	0.478	96	80-120		
17	Molybdenum	0	0.5	0	0.494	99	80-120		
18	Nickel	0	0.5	-0.005	0.463	93	80-120		
19	Phosphorus	0	0.5	-0.032	0.461	92	80-120		
20	Potassium	0	10	0.028	11.834	118	80-120		
21	Selenium	0	0.5	0.011	0.488	98	80-120		
22	Silicon	0	2.5	0.01	2.358	94	80-120		
23	Silver	0	0.25	-0.002	0.259	104	80-120		
24	Sodium	0	10	-0.074	10.871	109	80-120		
25	Strontium	0	0.5	0.001	0.515	103	80-120		
26	Thallium	0	0.5	0.003	0.465	93	80-120		
27	Tin	0	0.5	0.024	0.505	101	80-120		
28	Titanium	0	0.5	0	0.494	99	80-120		
29	Vanadium	0	0.5	0	0.489	98	80-120		
30	Zinc	0	0.5	-0.003	0.475	95	80-120		

	ICSA	ICSAB
Acceptance Limits:	+ / - 2xRL	80-120%

(*) : out of QC limits

All ICSA results < RL

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory:	TestAmerica Irvine	SDG:	
Client:	Brown and Caldwell - NV	Project:	BP Yerington, NV, Soils
Sequence:	IJ81902	Instrument:	ICP5
		Calibration:	I8J1902

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	IJ81902-CAL1	081019-1-001	10/19/08 09:22
Cal Standard	IJ81902-CAL1	081019-1-001	10/19/08 09:23
Cal Standard	IJ81902-CAL2	081019-1-002	10/19/08 09:28
Cal Standard	IJ81902-CAL2	081019-1-002	10/19/08 09:29
Cal Standard	IJ81902-CAL3	081019-1-003	10/19/08 09:33
Cal Standard	IJ81902-CAL3	081019-1-003	10/19/08 09:34
Cal Standard	IJ81902-CAL4	081019-1-004	10/19/08 09:39
Cal Standard	IJ81902-CAL4	081019-1-004	10/19/08 09:40
Interference Check A	IJ81902-IFA1	081019-1-005	10/19/08 09:45
Interference Check A	IJ81902-IFA1	081019-1-005	10/19/08 09:46
Interference Check A	IJ81902-IFA1	081019-1-005	10/19/08 09:47
Interference Check B	IJ81902-IFB1	081019-1-006	10/19/08 09:54
Interference Check B	IJ81902-IFB1	081019-1-006	10/19/08 09:55
Initial Cal Check	IJ81902-ICV1	081019-1-008	10/19/08 10:07
Initial Cal Check	IJ81902-ICV1	081019-1-008	10/19/08 10:08
Initial Cal Blank	IJ81902-ICB1	081019-1-009	10/19/08 10:13
Initial Cal Blank	IJ81902-ICB1	081019-1-009	10/19/08 10:14
MRL Check	IJ81902-CRL1	081019-1-010	10/19/08 10:19
MRL Check	IJ81902-CRL1	081019-1-010	10/19/08 10:20
MRL Check	IJ81902-CRL2	081019-1-011	10/19/08 10:25
MRL Check	IJ81902-CRL2	081019-1-011	10/19/08 10:26
Calibration Check	IJ81902-CCV1	081019-1-021	10/19/08 11:30
Calibration Check	IJ81902-CCV1	081019-1-021	10/19/08 11:31
Calibration Blank	IJ81902-CCB1	081019-1-022	10/19/08 11:36
Calibration Blank	IJ81902-CCB1	081019-1-022	10/19/08 11:37
Calibration Blank	IJ81902-CCB2	081019-1-023	10/19/08 11:41
Calibration Blank	IJ81902-CCB2	081019-1-023	10/19/08 11:42
Calibration Check	IJ81902-CCV2	081019-1-034	10/19/08 12:47
Calibration Check	IJ81902-CCV2	081019-1-034	10/19/08 12:48
Calibration Blank	IJ81902-CCB3	081019-1-035	10/19/08 12:53
Calibration Blank	IJ81902-CCB3	081019-1-035	10/19/08 12:54

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Sequence: IJ81902
Instrument: ICP5
Calibration: I8J1902

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	8J18048-BLK1	081019-1-044	10/19/08 13:47
Blank	8J18048-BLK1	081019-1-044	10/19/08 13:48
LCS	8J18048-BS1	081019-1-045	10/19/08 13:53
LCS	8J18048-BS1	081019-1-045	10/19/08 13:54
Calibration Check	IJ81902-CCV3	081019-1-046	10/19/08 13:59
Calibration Check	IJ81902-CCV3	081019-1-046	10/19/08 14:00
Calibration Blank	IJ81902-CCB4	081019-1-047	10/19/08 14:05
Calibration Blank	IJ81902-CCB4	081019-1-047	10/19/08 14:06
OU4-UEP-08A-SC	IRJ1092-01	081019-1-052	10/19/08 14:42
OU4-UEP-08A-SC	IRJ1092-01	081019-1-052	10/19/08 14:43
OU4-UEP-08A-SC	8J18048-MS1	081019-1-053	10/19/08 14:48
OU4-UEP-08A-SC	8J18048-MS1	081019-1-053	10/19/08 14:49
OU4-UEP-08A-SC	8J18048-MSD1	081019-1-054	10/19/08 14:54
OU4-UEP-08A-SC	8J18048-MSD1	081019-1-054	10/19/08 14:55
OU4-UEP-08A-SC-FD	IRJ1092-02	081019-1-055	10/19/08 15:00
OU4-UEP-08A-SC-FD	IRJ1092-02	081019-1-055	10/19/08 15:01
OU4-UEP-08B-SC	IRJ1092-03	081019-1-056	10/19/08 15:06
OU4-UEP-08B-SC	IRJ1092-03	081019-1-056	10/19/08 15:07
OU4-UEP-08B-SC	IRJ1092-03	081019-1-056	10/19/08 15:08
OU4-UEP-08B-SC-FD	IRJ1092-04	081019-1-057	10/19/08 15:12
OU4-UEP-08B-SC-FD	IRJ1092-04	081019-1-057	10/19/08 15:13
Calibration Check	IJ81902-CCV4	081019-1-058	10/19/08 15:18
Calibration Check	IJ81902-CCV4	081019-1-058	10/19/08 15:19
Calibration Blank	IJ81902-CCB5	081019-1-059	10/19/08 15:24
Calibration Blank	IJ81902-CCB5	081019-1-059	10/19/08 15:25
OU4-UEP-11B-SC	IRJ1092-05	081019-1-060	10/19/08 15:30
OU4-UEP-11B-SC	IRJ1092-05	081019-1-060	10/19/08 15:31
OU4-UEP-11A-SC	IRJ1092-06	081019-1-061	10/19/08 15:36
OU4-UEP-11A-SC	IRJ1092-06	081019-1-061	10/19/08 15:37
OU4-UEP-11A-SC	IRJ1092-06	081019-1-061	10/19/08 15:38
Calibration Check	IJ81902-CCV5	081019-1-070	10/19/08 16:31

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory:	TestAmerica Irvine	SDG:	
Client:	Brown and Caldwell - NV	Project:	BP Yerington, NV, Soils
Sequence:	IJ81902	Instrument:	ICP5
		Calibration:	I8J1902

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	IJ81902-CCV5	081019-1-070	10/19/08 16:32
Calibration Blank	IJ81902-CCB6	081019-1-071	10/19/08 16:37
Calibration Blank	IJ81902-CCB6	081019-1-071	10/19/08 16:38
Calibration Check	IJ81902-CCV6	081019-1-078	10/19/08 17:20
Calibration Check	IJ81902-CCV6	081019-1-078	10/19/08 17:21
Calibration Blank	IJ81902-CCB7	081019-1-079	10/19/08 17:26
Calibration Blank	IJ81902-CCB7	081019-1-079	10/19/08 17:27
Calibration Blank	IJ81902-CCB7	081019-1-079	10/19/08 17:28

PREPARATION BENCH SHEET

8J18048

TestAmerica Irvine

Printed: 10/19/2008 1:52:14PM

Matrix: Soil

Prepared using: Metals - EPA 3050B ICP

(No Surrogate)

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
8J18048-BLK1		QC	10/18/08 08:58	2	50										
8J18048-BS1		QC	10/18/08 08:58	2	50		8090397	1000							
8J18048-MS1		QC	10/18/08 08:58	2	50	IRJ1092-01	8090397	1000							
8J18048-MSD1		QC	10/18/08 08:58	2	50	IRJ1092-01	8090397	1000							
IRJ1092-01	A	Iron-6010B	10/18/08 08:58	2	50										BP Sequence. J flag
IRJ1092-01	A	Silica-6010B	10/18/08 08:58	2	50										BP Sequence. J flag
IRJ1092-01	A	Potassium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-01	A	Magnesium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-01	A	Sodium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-01	A	Calcium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-01	A	Boron-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-01	A	Aluminum-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-01	A	Manganese-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-02	A	Magnesium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-02	A	Silica-6010B	10/18/08 08:58	2	50										BP Sequence. J flag
IRJ1092-02	A	Potassium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-02	A	Manganese-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-02	A	Iron-6010B	10/18/08 08:58	2	50										BP Sequence. J flag
IRJ1092-02	A	Calcium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-02	A	Aluminum-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.

N/A
Spiking Witnessed By — Date

VRS — 10/19/8
Preparation Reviewed By — Date

VRS — 10/19/8
Extracts Received By — Date

PREPARATION BENCH SHEET

8J18048

TestAmerica Irvine

Printed: 10/19/2008 1:52:14PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1092-02	A	Sodium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-02	A	Boron-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-03	A	Manganese-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-03	A	Sodium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-03	A	Silica-6010B	10/18/08 08:58	2	50										BP Sequence. J flag
IRJ1092-03	A	Potassium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-03	A	Iron-6010B	10/18/08 08:58	2	50										BP Sequence. J flag
IRJ1092-03	A	Calcium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-03	A	Aluminum-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-03	A	Boron-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-03	A	Magnesium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-04	A	Iron-6010B	10/18/08 08:58	2	50										BP Sequence. J flag
IRJ1092-04	A	Sodium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-04	A	Silica-6010B	10/18/08 08:58	2	50										BP Sequence. J flag
IRJ1092-04	A	Potassium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-04	A	Magnesium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-04	A	Calcium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-04	A	Boron-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-04	A	Aluminum-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-04	A	Manganese-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J18048

TestAmerica Irvine

Printed: 10/19/2008 1:52:14PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1092-05	A	Magnesium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-05	A	Manganese-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-05	A	Sodium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-05	A	Potassium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-05	A	Aluminum-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-05	A	Calcium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-05	A	Silica-6010B	10/18/08 08:58	2	50										BP Sequence. J flag
IRJ1092-05	A	Boron-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-05	A	Iron-6010B	10/18/08 08:58	2	50										BP Sequence. J flag
IRJ1092-06	A	Iron-6010B	10/18/08 08:58	2	50										BP Sequence. J flag
IRJ1092-06	A	Silica-6010B	10/18/08 08:58	2	50										BP Sequence. J flag
IRJ1092-06	A	Potassium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-06	A	Magnesium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-06	A	Sodium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-06	A	Calcium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-06	A	Boron-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-06	A	Aluminum-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1092-06	A	Manganese-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1207-01	A	Manganese-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.
IRJ1207-01	A	Sodium-6010B	10/18/08 08:58	2	50										BP Sequence. J flag.

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

MDL STUDY
METALS BY ICP - EPA 6010B / 200.7

Analyt. Method: EPA 6010B / 200.7 — Instruments: **WinLabICP5**
Prep Method: EPA 3005A / 200.2 — Standard Conc: **Na,K**: 10x - **Si**: 5x - **Ag**: 0.5x
Matrix: **Water** (50ml-->50ml)
Units: **mg/L**

Reviewed: T.Vu (Jan/10&23/08)

#	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	0.0477	0.0522	0.0519	0.0519	0.049	0.0513	0.0488	0.06	1:14	0.00	0.010	0.010	0.040	0.050	0.050	OK	-75%	5	103%	2.13
2	Antimony	0.01	0.01	0.012	0.010	0.007	0.008	0.007	0.005	0.007	0.005	0.008	0.002	0.007	0.007	0.007	0.010	0.010	OK	no ch'g	1.4	76%	
3	Arsenic	0.01	0.01	0.009	0.010	0.008	0.010	0.010	0.008	0.009	0.007	0.009	0.001	0.003	0.003	0.0065	0.010	0.010	OK	-52%	3	89%	
4	Barium	0.01	0.005	0.0051	0.0051	0.0051	0.0051	0.005	0.0049	0.005	0.005	0.01	0.0001	0.000	0.000	0.006	0.010	0.010	OK	-95%	17	100%	
5	Beryllium	0.004	0.005	0.0048	0.0049	0.0049	0.0048	0.0047	0.0046	0.0046	0.005	0.00	0.0002	0.001	0.001	0.0009	0.004	0.004	OK	-44%	10	95%	
6	Boron	0.05	0.005	0.0177	0.0161	0.0166	0.0155	0.0152	0.0169	0.0167	0.017	0.02	0.0008	0.002	0.002	0.017	0.050	0.050	OK	-86%	2	329%	
7	Cadmium	0.005	0.005	0.0052	0.0052	0.0053	0.0053	0.005	0.005	0.005	0.005	0.01	0.0001	0.000	0.000	0.002	0.005	0.005	OK	-80%	13	102%	
8	Calcium	0.1	0.1	0.1214	0.117	0.1186	0.1178	0.1325	0.1292	0.1131	0.14	0.12	0.01	0.030	0.03	0.050	0.10	0.10	OK	-40%	3	124%	
9	Chromium	0.005	0.005	0.0059	0.0059	0.0059	0.0059	0.0053	0.0048	0.0052	0.005	0.01	0.0004	0.001	0.001	0.002	0.005	0.005	OK	-35%	4	110%	
10	Cobalt	0.01	0.01	0.011	0.010	0.010	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	-70%	17	103%	
11	Copper	0.01	0.01	0.011	0.010	0.011	0.009	0.012	0.011	0.011	0.011	0.011	0.001	0.003	0.003	0.003	0.010	0.010	OK	-17%	4	107%	
12	Iron	0.04	0.005	0.0066	0.005	0.006	0.0088	0.007	0.0069	0.0085	0.007	0.01	0.0012	0.004	0.004	0.015	0.04	0.02	OK	-75%	1	139%	
13	Lead	0.005	0.005	0.004	0.005	0.004	0.005	0.003	0.005	0.005	0.005	0.00	0.0008	0.003	0.003	0.003	0.005	0.005	OK	-17%	2	92%	
14	Lithium	0.05	0.05	0.0661	0.0641	0.0677	0.0631	0.0501	0.0509	0.049	0.05	0.06	0.0084	0.025	0.03	0.030	0.050	0.050	OK	-16%	2	115%	
15	Magnesium	0.02	0.02	0.0213	0.0243	0.0241	0.0272	0.0207	0.018	0.0133	0.0201	0.02	0.0043	0.013	0.013	0.012	0.020	0.020	OK	7%	2	106%	
16	Manganese	0.02	0.005	0.0055	0.0055	0.0055	0.0056	0.0054	0.005	0.0052	0.005	0.01	0.0003	0.001	0.001	0.007	0.020	0.020	OK	-89%	6	107%	
17	Molybdenum	0.02	0.005	0.0053	0.0054	0.0053	0.0064	0.004	0.0044	0.0039	0.004	0.00	0.0009	0.003	0.003	0.002	0.020	0.020	OK	35%	2	97%	
18	Nickel	0.01	0.005	0.0051	0.0053	0.005	0.0052	0.0049	0.0053	0.0049	0.005	0.01	0.0002	0.001	0.001	0.002	0.010	0.010	OK	-65%	7	101%	
19	Phosphorus	0.5	0.1	0.0889	0.093	0.0951	0.0845	0.089	0.0898	0.0869	0.09	0.09	0.0033	0.010	0.01	0.02	0.50	0.50	OK	-51%	10	90%	
20	Potassium	0.5	0.2	0.1801	0.2287	0.1879	0.1629	0.0952	0.1129	0.0864	0.04	0.14	0.0632	0.189	0.189	0.37	0.50	0.50	OK	-49%	1	68%	
21	Selenium	0.01	0.01	0.011	0.009	0.011	0.011	0.019	0.014	0.015	0.012	0.013	0.003	0.009	0.009	0.008	0.010	0.010	OK	10%	1.1	127%	
22	Silicon	0.05	0.05	0.046	0.047	0.047	0.046	0.048	0.049	0.044	0.045	0.05	0.00	0.005	0.005	0.013	0.050	0.050	OK	-60%	10	93%	
23	Silver	0.01	0.0025	0.0021	0.0018	0.001	0.0018	0.0017	0.0027	0.0022	0.00	0.00	0.0005	0.002	0.002	0.006	0.010	0.007	OK	-75%	2	78%	
24	Sodium	0.5	0.5	0.6693	0.598	0.6291	0.5962	0.6126	0.5704	0.5705	0.552	0.60	0.0376	0.113	0.11	0.19	0.50	0.50	OK	-41%	4	120%	
25	Strontium	0.02	0.005	0.0047	0.0047	0.0049	0.0047	0.0052	0.0051	0.0052	0.005	0.00	0.0002	0.001	0.001	0.005	0.020	0.020	OK	-86%	7	99%	
26	Thallium	0.01	0.01	0.009	0.007	0.010	0.010	0.009	0.006	0.007	0.007	0.008	0.002	0.005	0.005	0.007	0.010	0.010	OK	-33%	2	81%	
27	Tin	0.1	0.1	0.1004	0.0986	0.0945	0.0936	0.0901	0.0968	0.0892	0.0901	0.09	0.0042	0.013	0.013	0.012	0.10	0.10	OK	5%	8	94%	
28	Titanium	0.005	0.005	0.0054	0.0056	0.0054	0.0054	0.0051	0.0049	0.0053	0.005	0.01	0.0002	0.001	0.001	0.002	0.005	0.005	OK	-65%	7	105%	
29	Vanadium	0.01	0.01	0.010	0.010	0.010	0.010	0.009	0.008	0.008	0.008	0.009	0.001	0.003	0.003	0.003	0.010	0.010	OK	no ch'g	3	90%	
30	Zinc	0.02	0.01	0.011	0.011	0.011	0.011	0.010	0.011	0.010	0.010	0.011	0.001	0.002	0.002	0.006	0.020	0.020	OK	-72%	6	109%	
31	Zirconium	0.2	0.005													0.012	0.20	0.20					

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: Elan2
Calibration: I8J2006
Control Limt: +/- 10.00%
Sequence: IJ82006

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ82006-ICV1	Arsenic	25.0	24.7	99	ug/l	EPA 6020	10/20/08 15:50
	Barium	25.0	25.3	101	ug/l	EPA 6020	10/20/08 15:50
	Beryllium	25.0	24.6	98	ug/l	EPA 6020	10/20/08 15:50
	Cadmium	25.0	25.9	103	ug/l	EPA 6020	10/20/08 15:50
	Chromium	25.0	25.9	104	ug/l	EPA 6020	10/20/08 15:50
	Cobalt	25.0	26.2	105	ug/l	EPA 6020	10/20/08 15:50
	Copper	25.0	25.5	102	ug/l	EPA 6020	10/20/08 15:50
	Lead	25.0	25.9	103	ug/l	EPA 6020	10/20/08 15:50
	Molybdenum	25.0	25.6	102	ug/l	EPA 6020	10/20/08 15:50
	Nickel	25.0	25.5	102	ug/l	EPA 6020	10/20/08 15:50
	Selenium	25.0	24.9	100	ug/l	EPA 6020	10/20/08 15:50
	Silver	25.0	25.7	103	ug/l	EPA 6020	10/20/08 15:50
	Thallium	25.0	26.6	106	ug/l	EPA 6020	10/20/08 15:50
	Vanadium	25.0	25.5	102	ug/l	EPA 6020	10/20/08 15:50
	Zinc	25.0	25.2	101	ug/l	EPA 6020	10/20/08 15:50
IJ82006-CCV1	Arsenic	50.0	50.3	101	ug/l	EPA 6020	10/20/08 17:03
	Barium	50.0	48.7	97	ug/l	EPA 6020	10/20/08 17:03
	Beryllium	50.0	46.6	93	ug/l	EPA 6020	10/20/08 17:03
	Cadmium	50.0	49.2	98	ug/l	EPA 6020	10/20/08 17:03
	Chromium	50.0	51.7	103	ug/l	EPA 6020	10/20/08 17:03
	Cobalt	50.0	52.1	104	ug/l	EPA 6020	10/20/08 17:03
	Copper	50.0	51.0	102	ug/l	EPA 6020	10/20/08 17:03
	Lead	50.0	52.2	104	ug/l	EPA 6020	10/20/08 17:03
	Molybdenum	50.0	49.6	99	ug/l	EPA 6020	10/20/08 17:03
	Nickel	50.0	51.0	102	ug/l	EPA 6020	10/20/08 17:03
	Selenium	50.0	49.4	99	ug/l	EPA 6020	10/20/08 17:03
	Silver	50.0	50.9	102	ug/l	EPA 6020	10/20/08 17:03
	Thallium	50.0	52.2	104	ug/l	EPA 6020	10/20/08 17:03
	Vanadium	50.0	52.2	104	ug/l	EPA 6020	10/20/08 17:03
	Zinc	50.0	49.4	99	ug/l	EPA 6020	10/20/08 17:03
IJ82006-CCV2	Arsenic	50.0	50.2	100	ug/l	EPA 6020	10/20/08 18:00
	Barium	50.0	49.7	99	ug/l	EPA 6020	10/20/08 18:00
	Beryllium	50.0	47.1	94	ug/l	EPA 6020	10/20/08 18:00
	Cadmium	50.0	50.2	100	ug/l	EPA 6020	10/20/08 18:00
	Chromium	50.0	50.6	101	ug/l	EPA 6020	10/20/08 18:00
	Cobalt	50.0	51.7	103	ug/l	EPA 6020	10/20/08 18:00
	Copper	50.0	50.8	102	ug/l	EPA 6020	10/20/08 18:00
	Lead	50.0	51.6	103	ug/l	EPA 6020	10/20/08 18:00
	Molybdenum	50.0	50.3	101	ug/l	EPA 6020	10/20/08 18:00
	Nickel	50.0	50.5	101	ug/l	EPA 6020	10/20/08 18:00
	Selenium	50.0	50.1	100	ug/l	EPA 6020	10/20/08 18:00
	Silver	50.0	51.4	103	ug/l	EPA 6020	10/20/08 18:00
	Thallium	50.0	51.7	103	ug/l	EPA 6020	10/20/08 18:00
	Vanadium	50.0	51.4	103	ug/l	EPA 6020	10/20/08 18:00
	Zinc	50.0	49.5	99	ug/l	EPA 6020	10/20/08 18:00
IJ82006-CCV3	Arsenic	50.0	49.3	99	ug/l	EPA 6020	10/20/08 18:47

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: Elan2
Calibration: I8J2006
Control Limt: +/- 10.00%
Sequence: IJ82006

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ82006-CCV3	Barium	50.0	48.5	97	ug/l	EPA 6020	10/20/08 18:47
	Beryllium	50.0	45.6	91	ug/l	EPA 6020	10/20/08 18:47
	Cadmium	50.0	49.2	98	ug/l	EPA 6020	10/20/08 18:47
	Chromium	50.0	50.9	102	ug/l	EPA 6020	10/20/08 18:47
	Cobalt	50.0	51.4	103	ug/l	EPA 6020	10/20/08 18:47
	Copper	50.0	50.4	101	ug/l	EPA 6020	10/20/08 18:47
	Lead	50.0	52.5	105	ug/l	EPA 6020	10/20/08 18:47
	Molybdenum	50.0	49.5	99	ug/l	EPA 6020	10/20/08 18:47
	Nickel	50.0	50.3	101	ug/l	EPA 6020	10/20/08 18:47
	Selenium	50.0	48.9	98	ug/l	EPA 6020	10/20/08 18:47
	Silver	50.0	50.8	102	ug/l	EPA 6020	10/20/08 18:47
	Thallium	50.0	52.9	106	ug/l	EPA 6020	10/20/08 18:47
	Vanadium	50.0	51.4	103	ug/l	EPA 6020	10/20/08 18:47
	Zinc	50.0	49.1	98	ug/l	EPA 6020	10/20/08 18:47
IJ82006-CCV4	Arsenic	50.0	50.9	102	ug/l	EPA 6020	10/20/08 19:48
	Barium	50.0	49.7	99	ug/l	EPA 6020	10/20/08 19:48
	Beryllium	50.0	47.3	95	ug/l	EPA 6020	10/20/08 19:48
	Cadmium	50.0	50.7	101	ug/l	EPA 6020	10/20/08 19:48
	Chromium	50.0	52.2	104	ug/l	EPA 6020	10/20/08 19:48
	Cobalt	50.0	52.8	106	ug/l	EPA 6020	10/20/08 19:48
	Copper	50.0	51.9	104	ug/l	EPA 6020	10/20/08 19:48
	Lead	50.0	53.1	106	ug/l	EPA 6020	10/20/08 19:48
	Molybdenum	50.0	50.8	102	ug/l	EPA 6020	10/20/08 19:48
	Nickel	50.0	51.6	103	ug/l	EPA 6020	10/20/08 19:48
	Selenium	50.0	49.6	99	ug/l	EPA 6020	10/20/08 19:48
	Silver	50.0	52.2	104	ug/l	EPA 6020	10/20/08 19:48
	Thallium	50.0	53.0	106	ug/l	EPA 6020	10/20/08 19:48
	Vanadium	50.0	52.5	105	ug/l	EPA 6020	10/20/08 19:48
	Zinc	50.0	49.8	100	ug/l	EPA 6020	10/20/08 19:48
IJ82006-CCV5	Arsenic	50.0	51.1	102	ug/l	EPA 6020	10/20/08 20:36
	Barium	50.0	50.7	101	ug/l	EPA 6020	10/20/08 20:36
	Beryllium	50.0	48.0	96	ug/l	EPA 6020	10/20/08 20:36
	Cadmium	50.0	51.6	103	ug/l	EPA 6020	10/20/08 20:36
	Chromium	50.0	52.5	105	ug/l	EPA 6020	10/20/08 20:36
	Cobalt	50.0	52.9	106	ug/l	EPA 6020	10/20/08 20:36
	Copper	50.0	51.8	104	ug/l	EPA 6020	10/20/08 20:36
	Lead	50.0	52.6	105	ug/l	EPA 6020	10/20/08 20:36
	Molybdenum	50.0	51.3	103	ug/l	EPA 6020	10/20/08 20:36
	Nickel	50.0	51.5	103	ug/l	EPA 6020	10/20/08 20:36
	Selenium	50.0	50.3	101	ug/l	EPA 6020	10/20/08 20:36
	Silver	50.0	53.4	107	ug/l	EPA 6020	10/20/08 20:36
	Thallium	50.0	52.4	105	ug/l	EPA 6020	10/20/08 20:36
	Vanadium	50.0	52.6	105	ug/l	EPA 6020	10/20/08 20:36
	Zinc	50.0	49.8	100	ug/l	EPA 6020	10/20/08 20:36
IJ82006-CCV7	Arsenic	50.0	48.5	97	ug/l	EPA 6020	10/20/08 22:01
	Barium	50.0	51.6	103	ug/l	EPA 6020	10/20/08 22:01

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: Elan2
Calibration: I8J2006
Control Limt: +/- 10.00%
Sequence: IJ82006

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ82006-CCV7	Beryllium	50.0	45.4	91	ug/l	EPA 6020	10/20/08 22:01
	Cadmium	50.0	52.9	106	ug/l	EPA 6020	10/20/08 22:01
	Chromium	50.0	48.7	97	ug/l	EPA 6020	10/20/08 22:01
	Cobalt	50.0	50.5	101	ug/l	EPA 6020	10/20/08 22:01
	Copper	50.0	48.8	98	ug/l	EPA 6020	10/20/08 22:01
	Lead	50.0	48.2	96	ug/l	EPA 6020	10/20/08 22:01
	Molybdenum	50.0	51.1	102	ug/l	EPA 6020	10/20/08 22:01
	Nickel	50.0	48.8	98	ug/l	EPA 6020	10/20/08 22:01
	Selenium	50.0	49.8	100	ug/l	EPA 6020	10/20/08 22:01
	Silver	50.0	53.0	106	ug/l	EPA 6020	10/20/08 22:01
	Thallium	50.0	48.6	97	ug/l	EPA 6020	10/20/08 22:01
	Vanadium	50.0	49.9	100	ug/l	EPA 6020	10/20/08 22:01
	Zinc	50.0	49.1	98	ug/l	EPA 6020	10/20/08 22:01
IJ82006-CCV8	Arsenic	50.0	48.2	96	ug/l	EPA 6020	10/20/08 22:54
	Barium	50.0	53.3	107	ug/l	EPA 6020	10/20/08 22:54
	Beryllium	50.0	42.5	85 *	ug/l	EPA 6020	10/20/08 22:54
	Cadmium	50.0	55.6	111 *	ug/l	EPA 6020	10/20/08 22:54
	Chromium	50.0	47.8	96	ug/l	EPA 6020	10/20/08 22:54
	Cobalt	50.0	49.8	100	ug/l	EPA 6020	10/20/08 22:54
	Copper	50.0	48.6	97	ug/l	EPA 6020	10/20/08 22:54
	Lead	50.0	47.9	96	ug/l	EPA 6020	10/20/08 22:54
	Molybdenum	50.0	52.3	105	ug/l	EPA 6020	10/20/08 22:54
	Nickel	50.0	48.0	96	ug/l	EPA 6020	10/20/08 22:54
	Selenium	50.0	49.4	99	ug/l	EPA 6020	10/20/08 22:54
	Silver	50.0	55.0	110	ug/l	EPA 6020	10/20/08 22:54
	Thallium	50.0	48.2	96	ug/l	EPA 6020	10/20/08 22:54
	Vanadium	50.0	48.7	97	ug/l	EPA 6020	10/20/08 22:54
	Zinc	50.0	49.2	98	ug/l	EPA 6020	10/20/08 22:54

* Values outside of QC limits

CCV 8 does not bracket project samples

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: ELAN
Calibration: I8J1801
Control Limt: +/- 10.00%
Sequence: IJ81801

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ81801-ICV1	Antimony	25.0	26.0	104	ug/l	EPA 6020	10/18/08 10:18
IJ81801-CCV1	Antimony	50.0	51.6	103	ug/l	EPA 6020	10/18/08 11:40
IJ81801-CCV2	Antimony	50.0	51.9	104	ug/l	EPA 6020	10/18/08 12:28
IJ81801-CCV5	Antimony	50.0	51.4	103	ug/l	EPA 6020	10/18/08 15:43
IJ81801-CCV6	Antimony	50.0	46.3	93	ug/l	EPA 6020	10/18/08 16:26
IJ81801-CCV7	Antimony	50.0	45.4	91	ug/l	EPA 6020	10/18/08 17:13

* Values outside of QC limits

CRDL STANDARD

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: Elan2
Calibration: I8J2006
Sequence: IJ82006
Injection Date: 10/20/08 16:14

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IJ82006-CRL1	Arsenic	0.200	0.304	152 *	ug/l	50 - 150
	Barium	0.200	0.0542	27 *	ug/l	50 - 150
	Beryllium	0.200	0.184	92	ug/l	50 - 150
	Cadmium	0.200	0.166	83	ug/l	50 - 150
	Chromium	0.200	-0.385	*	ug/l	50 - 150
	Cobalt	0.200	0.223	111	ug/l	50 - 150
	Copper	0.200	0.207	104	ug/l	50 - 150
	Lead	0.200	0.233	117	ug/l	50 - 150
	Molybdenum	0.200	0.379	189 *	ug/l	50 - 150
	Nickel	0.200	0.208	104	ug/l	50 - 150
	Selenium	0.200	0.129	65	ug/l	50 - 150
	Silver	0.200	0.222	111	ug/l	50 - 150
	Thallium	0.200	0.211	106	ug/l	50 - 150
	Vanadium	0.200	0.425	213 *	ug/l	50 - 150
	Zinc	0.200	0.150	75	ug/l	50 - 150
IJ82006-CRL2	Arsenic	2.00	2.17	108	ug/l	50 - 150
	Barium	2.00	1.82	91	ug/l	50 - 150
	Beryllium	2.00	1.90	95	ug/l	50 - 150
	Cadmium	2.00	1.98	99	ug/l	50 - 150
	Chromium	2.00	1.48	74	ug/l	50 - 150
	Cobalt	2.00	2.14	107	ug/l	50 - 150
	Copper	2.00	2.05	103	ug/l	50 - 150
	Lead	2.00	2.18	109	ug/l	50 - 150
	Molybdenum	2.00	2.05	103	ug/l	50 - 150
	Nickel	2.00	2.09	104	ug/l	50 - 150
	Selenium	2.00	1.78	89	ug/l	50 - 150
	Silver	2.00	2.10	105	ug/l	50 - 150
	Thallium	2.00	2.11	105	ug/l	50 - 150

CRL1 does not bracket any project samples

CRDL STANDARD

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: Elan2
Calibration: I8J2006
Sequence: IJ82006
Injection Date: 10/20/08 16:18

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IJ82006-CRL2	Vanadium	2.00	2.27	114	ug/l	50 - 150
	Zinc	2.00	1.63	82	ug/l	50 - 150
IJ82006-CRL3	Arsenic	2.00	2.23	111	ug/l	50 - 150
	Barium	2.00	1.73	86	ug/l	50 - 150
	Beryllium	2.00	1.92	96	ug/l	50 - 150
	Cadmium	2.00	1.97	98	ug/l	50 - 150
	Chromium	2.00	1.39	70	ug/l	50 - 150
	Cobalt	2.00	2.15	108	ug/l	50 - 150
	Copper	2.00	2.08	104	ug/l	50 - 150
	Lead	2.00	2.16	108	ug/l	50 - 150
	Molybdenum	2.00	1.97	98	ug/l	50 - 150
	Nickel	2.00	2.08	104	ug/l	50 - 150
	Selenium	2.00	1.83	92	ug/l	50 - 150
	Silver	2.00	2.08	104	ug/l	50 - 150
	Thallium	2.00	2.10	105	ug/l	50 - 150
	Vanadium	2.00	2.36	118	ug/l	50 - 150
	Zinc	2.00	1.91	95	ug/l	50 - 150
IJ82006-CRL4	Arsenic	2.00	2.29	114	ug/l	50 - 150
	Barium	2.00	1.79	89	ug/l	50 - 150
	Beryllium	2.00	1.86	93	ug/l	50 - 150
	Cadmium	2.00	1.96	98	ug/l	50 - 150
	Chromium	2.00	1.35	68	ug/l	50 - 150
	Cobalt	2.00	2.13	107	ug/l	50 - 150
	Copper	2.00	2.04	102	ug/l	50 - 150
	Lead	2.00	2.14	107	ug/l	50 - 150
	Molybdenum	2.00	2.02	101	ug/l	50 - 150
	Nickel	2.00	2.06	103	ug/l	50 - 150
	Selenium	2.00	1.95	97	ug/l	50 - 150

CRDL STANDARD

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: Elan2
Calibration: I8J2006
Sequence: IJ82006
Injection Date: 10/20/08 18:55

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IJ82006-CRL4	Silver	2.00	2.09	104	ug/l	50 - 150
	Thallium	2.00	2.10	105	ug/l	50 - 150
	Vanadium	2.00	2.14	107	ug/l	50 - 150
	Zinc	2.00	1.52	76	ug/l	50 - 150
IJ82006-CRL5	Arsenic	2.00	2.07	104	ug/l	50 - 150
	Barium	2.00	1.80	90	ug/l	50 - 150
	Beryllium	2.00	1.89	94	ug/l	50 - 150
	Cadmium	2.00	2.01	101	ug/l	50 - 150
	Chromium	2.00	1.31	66	ug/l	50 - 150
	Cobalt	2.00	2.13	106	ug/l	50 - 150
	Copper	2.00	2.06	103	ug/l	50 - 150
	Lead	2.00	2.11	106	ug/l	50 - 150
	Molybdenum	2.00	2.01	100	ug/l	50 - 150
	Nickel	2.00	2.07	103	ug/l	50 - 150
	Selenium	2.00	1.99	100	ug/l	50 - 150
	Silver	2.00	2.12	106	ug/l	50 - 150
	Thallium	2.00	2.08	104	ug/l	50 - 150
	Vanadium	2.00	2.21	111	ug/l	50 - 150
	Zinc	2.00	1.60	80	ug/l	50 - 150
IJ82006-CRL6	Arsenic	2.00	2.11	106	ug/l	50 - 150
	Barium	2.00	2.00	100	ug/l	50 - 150
	Beryllium	2.00	1.80	90	ug/l	50 - 150
	Cadmium	2.00	2.25	112	ug/l	50 - 150
	Chromium	2.00	1.10	55	ug/l	50 - 150
	Cobalt	2.00	2.08	104	ug/l	50 - 150
	Copper	2.00	2.02	101	ug/l	50 - 150
	Lead	2.00	1.99	100	ug/l	50 - 150
	Molybdenum	2.00	2.12	106	ug/l	50 - 150

CRDL STANDARD

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J2006

Sequence: IJ82006

Injection Date: 10/20/08 23:02

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IJ82006-CRL6	Nickel	2.00	2.01	100	ug/l	50 - 150
	Selenium	2.00	1.94	97	ug/l	50 - 150
	Silver	2.00	2.28	114	ug/l	50 - 150
	Thallium	2.00	1.96	98	ug/l	50 - 150
	Vanadium	2.00	2.14	107	ug/l	50 - 150
	Zinc	2.00	1.74	87	ug/l	50 - 150

* Values outside of QC limits

CRDL STANDARD

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: ELAN

Calibration: I8J1801

Sequence: IJ81801

Injection Date: 10/18/08 10:53

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IJ81801-CRL1	Antimony	0.200	0.214	107	ug/l	50 - 150
IJ81801-CRL2	Antimony	2.00	1.96	98	ug/l	50 - 150
IJ81801-CRL3	Antimony	2.00	2.13	107	ug/l	50 - 150
IJ81801-CRL5	Antimony	2.00	1.87	94	ug/l	50 - 150

* Values outside of QC limits

BLANKS
EPA 6020

Laboratory: TestAmerica Irvine SDG:

Client: Brown and Caldwell - NV

Instrument ID: Elan2 Project: BP Yerington, NV, Soils

Sequence: IJ82006 Calibration: I8J2006

Lab Sample ID	Analyte	MDL (mg/L)	ug/L	Found	MRL ?	Units	C	Method	Analyzed
IJ82006-ICB1	Arsenic	0.014	14	0.0947	1.0	ug/l		EPA 6020	10/20/08 15:5
	Barium	0.008	8	-0.00519	1.0	ug/l		EPA 6020	10/20/08 15:5
	Beryllium	0.004	4	0.00465	0.50	ug/l		EPA 6020	10/20/08 15:5
	Cadmium	0.0024	2.4	0.00524	1.0	ug/l		EPA 6020	10/20/08 15:5
	Chromium	0.014	14	-0.266	2.0	ug/l		EPA 6020	10/20/08 15:5
	Cobalt	0.0032	3.2	0.00114	1.0	ug/l		EPA 6020	10/20/08 15:5
	Copper	0.0152	15.2	0.00543	2.0	ug/l		EPA 6020	10/20/08 15:5
	Lead	0.006	6	0.00278	1.0	ug/l		EPA 6020	10/20/08 15:5
	Molybdenum	0.004	4	0.116	2.0	ug/l		EPA 6020	10/20/08 15:5
	Nickel	0.018	18	0.00266	2.0	ug/l		EPA 6020	10/20/08 15:5
	Selenium	0.006	6	0.0751	2.0	ug/l		EPA 6020	10/20/08 15:5
	Silver	0.006	6	0.000970	1.0	ug/l		EPA 6020	10/20/08 15:5
	Thallium	0.004	4	0.163	1.0	ug/l		EPA 6020	10/20/08 15:5
	Vanadium	0.014	14	0.181	2.0	ug/l		EPA 6020	10/20/08 15:5
	Zinc	0.052	52	0.00944	20	ug/l		EPA 6020	10/20/08 15:5
IJ82006-CCB1	Arsenic			0.268	1.0	ug/l		EPA 6020	10/20/08 17:0
	Barium			-0.201	1.0	ug/l		EPA 6020	10/20/08 17:0
	Beryllium			-0.000980	0.50	ug/l		EPA 6020	10/20/08 17:0
	Cadmium			-0.0356	1.0	ug/l		EPA 6020	10/20/08 17:0
	Chromium			-0.771	2.0	ug/l		EPA 6020	10/20/08 17:0
	Cobalt			-0.000220	1.0	ug/l		EPA 6020	10/20/08 17:0
	Copper			-0.0213	2.0	ug/l		EPA 6020	10/20/08 17:0
	Lead			-0.00288	1.0	ug/l		EPA 6020	10/20/08 17:0
	Molybdenum			0.132	2.0	ug/l		EPA 6020	10/20/08 17:0
	Nickel			-0.000360	2.0	ug/l		EPA 6020	10/20/08 17:0
	Selenium			-0.0787	2.0	ug/l		EPA 6020	10/20/08 17:0
	Silver			0.00177	1.0	ug/l		EPA 6020	10/20/08 17:0
	Thallium			0.0138	1.0	ug/l		EPA 6020	10/20/08 17:0
	Vanadium			0.117	2.0	ug/l		EPA 6020	10/20/08 17:0
	Zinc			-0.0754	20	ug/l		EPA 6020	10/20/08 17:0
IJ82006-CCB2	Arsenic			0.220	1.0	ug/l		EPA 6020	10/20/08 18:0
	Barium			-0.194	1.0	ug/l		EPA 6020	10/20/08 18:0
	Beryllium			0.000440	0.50	ug/l		EPA 6020	10/20/08 18:0
	Cadmium			-0.0342	1.0	ug/l		EPA 6020	10/20/08 18:0
	Chromium			-0.770	2.0	ug/l		EPA 6020	10/20/08 18:0
	Cobalt			0.00184	1.0	ug/l		EPA 6020	10/20/08 18:0
	Copper			-0.0210	2.0	ug/l		EPA 6020	10/20/08 18:0
	Lead			0.000510	1.0	ug/l		EPA 6020	10/20/08 18:0
	Molybdenum			0.198	2.0	ug/l		EPA 6020	10/20/08 18:0
	Nickel			0.000170	2.0	ug/l		EPA 6020	10/20/08 18:0
	Selenium			-0.0210	2.0	ug/l		EPA 6020	10/20/08 18:0
	Silver			0.00556	1.0	ug/l		EPA 6020	10/20/08 18:0
	Thallium			0.0626	1.0	ug/l		EPA 6020	10/20/08 18:0
	Vanadium			0.171	2.0	ug/l		EPA 6020	10/20/08 18:0
	Zinc			-0.0828	20	ug/l		EPA 6020	10/20/08 18:0

no impact

BLANKS
EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Instrument ID: Elan2
Project: BP Yerington, NV, Soils
Sequence: IJ82006
Calibration: I8J2006

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
8J18049-BLK1	Arsenic	0.0620	0.50	mg/kg wet		EPA 6020	10/20/08 18:2
	Barium	-0.0153	0.50	mg/kg wet		EPA 6020	10/20/08 18:2
	Beryllium	0.00166	0.30	mg/kg wet		EPA 6020	10/20/08 18:2
	Cadmium	-0.0155	0.50	mg/kg wet		EPA 6020	10/20/08 18:2
	Chromium	-0.342	1.0	mg/kg wet		EPA 6020	10/20/08 18:2
	Cobalt	0.0175	0.50	mg/kg wet		EPA 6020	10/20/08 18:2
	Copper	0.100	1.0	mg/kg wet		EPA 6020	10/20/08 18:2
	Lead	0.00792	0.50	mg/kg wet		EPA 6020	10/20/08 18:2
	Molybdenum	0.0267	1.0	mg/kg wet		EPA 6020	10/20/08 18:2
	Nickel	0.0323	1.0	mg/kg wet		EPA 6020	10/20/08 18:2
	Selenium	-0.0106	1.0	mg/kg wet		EPA 6020	10/20/08 18:2
	Silver	0.00108	0.50	mg/kg wet		EPA 6020	10/20/08 18:2
	Thallium	0.00636	0.50	mg/kg wet		EPA 6020	10/20/08 18:2
	Vanadium	-0.214	1.0	mg/kg wet		EPA 6020	10/20/08 18:2
	Zinc	0.0353	10	mg/kg wet		EPA 6020	10/20/08 18:2
IJ82006-CCB3	Arsenic	0.277	1.0	ug/l		EPA 6020	10/20/08 18:5
	Barium	-0.192	1.0	ug/l		EPA 6020	10/20/08 18:5
	Beryllium	0.00563	0.50	ug/l		EPA 6020	10/20/08 18:5
	Cadmium	-0.0324	1.0	ug/l		EPA 6020	10/20/08 18:5
	Chromium	-0.746	2.0	ug/l		EPA 6020	10/20/08 18:5
	Cobalt	0.00559	1.0	ug/l		EPA 6020	10/20/08 18:5
	Copper	-0.0140	2.0	ug/l		EPA 6020	10/20/08 18:5
	Lead	0.00315	1.0	ug/l		EPA 6020	10/20/08 18:5
	Molybdenum	0.167	2.0	ug/l		EPA 6020	10/20/08 18:5
	Nickel	0.00337	2.0	ug/l		EPA 6020	10/20/08 18:5
	Selenium	-0.101	2.0	ug/l		EPA 6020	10/20/08 18:5
	Silver	0.00694	1.0	ug/l		EPA 6020	10/20/08 18:5
	Thallium	0.0911	1.0	ug/l		EPA 6020	10/20/08 18:5
	Vanadium	0.0443	2.0	ug/l		EPA 6020	10/20/08 18:5
	Zinc	-0.0480	20	ug/l		EPA 6020	10/20/08 18:5
IJ82006-CCB4	Arsenic	0.296	1.0	ug/l		EPA 6020	10/20/08 19:5
	Barium	-0.202	1.0	ug/l		EPA 6020	10/20/08 19:5
	Beryllium	-0.00506	0.50	ug/l		EPA 6020	10/20/08 19:5
	Cadmium	-0.0368	1.0	ug/l		EPA 6020	10/20/08 19:5
	Chromium	-0.688	2.0	ug/l		EPA 6020	10/20/08 19:5
	Cobalt	-0.000590	1.0	ug/l		EPA 6020	10/20/08 19:5
	Copper	-0.0162	2.0	ug/l		EPA 6020	10/20/08 19:5
	Lead	-0.00412	1.0	ug/l		EPA 6020	10/20/08 19:5
	Molybdenum	0.131	2.0	ug/l		EPA 6020	10/20/08 19:5
	Nickel	-0.00579	2.0	ug/l		EPA 6020	10/20/08 19:5
	Selenium	-0.113	2.0	ug/l		EPA 6020	10/20/08 19:5
	Silver	0.00260	1.0	ug/l		EPA 6020	10/20/08 19:5
	Thallium	0.0617	1.0	ug/l		EPA 6020	10/20/08 19:5
	Vanadium	-0.0871	2.0	ug/l		EPA 6020	10/20/08 19:5
	Zinc	-0.0135	20	ug/l		EPA 6020	10/20/08 19:5

no impact

BLANKS
EPA 6020

Laboratory: TestAmerica Irvine SDG:

Client: Brown and Caldwell - NV

Instrument ID: Elan2 Project: BP Yerington, NV, Soils

Sequence: IJ82006 Calibration: I8J2006

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
IJ82006-CCB5	Arsenic	0.148	1.0	ug/l		EPA 6020	10/20/08 20:4
	Barium	-0.199	1.0	ug/l		EPA 6020	10/20/08 20:4
	Beryllium	-0.00273	0.50	ug/l		EPA 6020	10/20/08 20:4
	Cadmium	-0.0350	1.0	ug/l		EPA 6020	10/20/08 20:4
	Chromium	-0.767	2.0	ug/l		EPA 6020	10/20/08 20:4
	Cobalt	0.000530	1.0	ug/l		EPA 6020	10/20/08 20:4
	Copper	0.0469	2.0	ug/l		EPA 6020	10/20/08 20:4
	Lead	-0.00104	1.0	ug/l		EPA 6020	10/20/08 20:4
	Molybdenum	0.126	2.0	ug/l		EPA 6020	10/20/08 20:4
	Nickel	-0.00378	2.0	ug/l		EPA 6020	10/20/08 20:4
	Selenium	-0.0277	2.0	ug/l		EPA 6020	10/20/08 20:4
	Silver	0.00319	1.0	ug/l		EPA 6020	10/20/08 20:4
	Thallium	0.0799	1.0	ug/l		EPA 6020	10/20/08 20:4
	Vanadium	0.0713	2.0	ug/l		EPA 6020	10/20/08 20:4
	Zinc	-0.0373	20	ug/l		EPA 6020	10/20/08 20:4
IJ82006-CCB7	Arsenic	0.0893	1.0	ug/l		EPA 6020	10/20/08 22:0
	Barium	-0.107	1.0	ug/l		EPA 6020	10/20/08 22:0
	Beryllium	-0.00516	0.50	ug/l		EPA 6020	10/20/08 22:0
	Cadmium	-0.0416	1.0	ug/l		EPA 6020	10/20/08 22:0
	Chromium	-0.998	2.0	ug/l		EPA 6020	10/20/08 22:0
	Cobalt	-0.00537	1.0	ug/l		EPA 6020	10/20/08 22:0
	Copper	-0.000930	2.0	ug/l		EPA 6020	10/20/08 22:0
	Lead	-0.00795	1.0	ug/l		EPA 6020	10/20/08 22:0
	Molybdenum	0.141	2.0	ug/l		EPA 6020	10/20/08 22:0
	Nickel	-0.00704	2.0	ug/l		EPA 6020	10/20/08 22:0
	Selenium	-0.124	2.0	ug/l		EPA 6020	10/20/08 22:0
	Silver	0.0000200	1.0	ug/l		EPA 6020	10/20/08 22:0
	Thallium	0.000200	1.0	ug/l		EPA 6020	10/20/08 22:0
	Vanadium	0.242	2.0	ug/l		EPA 6020	10/20/08 22:0
	Zinc	-0.307	20	ug/l		EPA 6020	10/20/08 22:0
IJ82006-CCB8	Arsenic	0.0346	1.0	ug/l		EPA 6020	10/20/08 22:5
	Barium	-0.0950	1.0	ug/l		EPA 6020	10/20/08 22:5
	Beryllium	-0.00297	0.50	ug/l		EPA 6020	10/20/08 22:5
	Cadmium	-0.0360	1.0	ug/l		EPA 6020	10/20/08 22:5
	Chromium	-1.01	2.0	ug/l		EPA 6020	10/20/08 22:5
	Cobalt	-0.00391	1.0	ug/l		EPA 6020	10/20/08 22:5
	Copper	0.0296	2.0	ug/l		EPA 6020	10/20/08 22:5
	Lead	-0.00452	1.0	ug/l		EPA 6020	10/20/08 22:5
	Molybdenum	0.144	2.0	ug/l		EPA 6020	10/20/08 22:5
	Nickel	-0.00813	2.0	ug/l		EPA 6020	10/20/08 22:5
	Selenium	-0.0951	2.0	ug/l		EPA 6020	10/20/08 22:5
	Silver	0.00224	1.0	ug/l		EPA 6020	10/20/08 22:5
	Thallium	0.0347	1.0	ug/l		EPA 6020	10/20/08 22:5
	Vanadium	0.235	2.0	ug/l		EPA 6020	10/20/08 22:5
	Zinc	-0.320	20	ug/l		EPA 6020	10/20/08 22:5

no impact

BLANKS
EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Instrument ID: ELAN
Project: BP Yerington, NV, Soils
Sequence: IJ81801
Calibration: I8J1801

Lab Sample ID	Analyte MDL (mg/L)	Found	MRL ?	Units	C	Method	Analyzed
IJ81801-ICB1	Antimony 4	0.223	2.0	ug/l		EPA 6020	10/18/08 10:2
8J17135-BLK1	Antimony	0.0140	1.0	mg/kg wet		EPA 6020	10/18/08 11:0
IJ81801-CCB1	Antimony	0.209	2.0	ug/l		EPA 6020	10/18/08 11:4
IJ81801-CCB2	Antimony	0.196	2.0	ug/l		EPA 6020	10/18/08 12:3
IJ81801-CCB5	Antimony	0.146	2.0	ug/l		EPA 6020	10/18/08 15:4
IJ81801-CCB6	Antimony	0.167	2.0	ug/l		EPA 6020	10/18/08 16:3
IJ81801-CCB7	Antimony	0.124	2.0	ug/l		EPA 6020	10/18/08 17:1

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J2006

Sequence: IJ82006

Check Nbr: 1

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Arsenic	NA	NA	-0.605	NA		NA
Arsenic	NA	20.0		NA	15.2	76
Barium	NA	NA		NA	0.353	NA
Barium	NA	NA	0.384	NA		NA
Beryllium	NA	NA		NA	-0.00289	NA
Beryllium	NA	NA	0.00513	NA		NA
Cadmium	NA	NA	2.67	NA		NA
Cadmium	NA	20.0		NA	17.7	88
Chromium	NA	NA	2.53	NA		NA
Chromium	NA	20.0		NA	18.4	92
Cobalt	NA	NA	0.188	NA		NA
Cobalt	NA	20.0		NA	16.7	83
Copper	NA	NA	2.29	NA		NA
Copper	NA	20.0		NA	17.6	88
Lead	NA	NA		NA	0.505	NA
Lead	NA	NA	0.518	NA		NA
Molybdenum	NA	2000		NA	1890	94
Molybdenum ug/L	2000	NA	1870	93		NA
Nickel	NA	NA	0.830	NA		NA
Nickel	NA	20.0		NA	15.9	80
Selenium	NA	NA		NA	0.257	NA
Selenium	NA	NA	0.272	NA		NA
Silver	NA	NA	0.0566	NA		NA
Silver	NA	20.0		NA	14.9	75
Thallium	NA	NA		NA	0.0153	NA
Thallium	NA	NA	0.0244	NA		NA
Vanadium	NA	NA		NA	0.298	NA
Vanadium	NA	NA	0.908	NA		NA
Zinc	NA	NA	6.02	NA		NA
Zinc	NA	20.0		NA	19.4	97

Mo low in all samples, no impact
(< 25 mg/kg)

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: Elan2
Calibration: I8J2006
Sequence: IJ82006
Check Nbr: 2

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Arsenic	NA	NA	-0.644	NA		NA
Arsenic	NA	20.0		NA	15.8	79
Barium	NA	NA		NA	0.371	NA
Barium	NA	NA	0.374	NA		NA
Beryllium	NA	NA		NA	-0.00171	NA
Beryllium	NA	NA	-0.00436	NA		NA
Cadmium	NA	NA	2.53	NA		NA
Cadmium	NA	20.0		NA	17.5	87
Chromium	NA	NA	2.23	NA		NA
Chromium	NA	20.0		NA	20.2	101
Cobalt	NA	NA	0.195	NA		NA
Cobalt	NA	20.0		NA	16.5	82
Copper	NA	NA	2.16	NA		NA
Copper	NA	20.0		NA	17.5	87
Lead	NA	NA		NA	0.507	NA
Lead	NA	NA	0.512	NA		NA
Molybdenum	NA	2000		NA	1900	95
Molybdenum	2000	NA	1860	93		NA
Nickel	NA	NA	0.807	NA		NA
Nickel	NA	20.0		NA	15.6	78
Selenium	NA	NA		NA	0.257	NA
Selenium	NA	NA	0.232	NA		NA
Silver	NA	NA	0.0641	NA		NA
Silver	NA	20.0		NA	14.6	73
Thallium	NA	NA		NA	0.0131	NA
Thallium	NA	NA	0.0375	NA		NA
Vanadium	NA	NA		NA	0.941	NA
Vanadium	NA	NA	0.776	NA		NA
Zinc	NA	NA	5.79	NA		NA
Zinc	NA	20.0		NA	19.0	95

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J2006

Sequence: IJ82006

Check Nbr: 3

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Arsenic	NA	NA	-0.641	NA		NA
Arsenic	NA	20.0		NA	15.1	76
Barium	NA	NA		NA	0.356	NA
Barium	NA	NA	0.343	NA		NA
Beryllium	NA	NA		NA	-0.00281	NA
Beryllium	NA	NA	-0.00622	NA		NA
Cadmium	NA	NA	2.50	NA		NA
Cadmium	NA	20.0		NA	17.2	86
Chromium	NA	NA	2.65	NA		NA
Chromium	NA	20.0		NA	18.3	91
Cobalt	NA	NA	0.201	NA		NA
Cobalt	NA	20.0		NA	16.1	80
Copper	NA	NA	2.16	NA		NA
Copper	NA	20.0		NA	17.0	85
Lead	NA	NA		NA	0.497	NA
Lead	NA	NA	0.509	NA		NA
Molybdenum	NA	2000		NA	1860	93
Molybdenum	2000	NA	1840	92		NA
Nickel	NA	NA	0.912	NA		NA
Nickel	NA	20.0		NA	15.4	77
Selenium	NA	NA		NA	0.258	NA
Selenium	NA	NA	0.229	NA		NA
Silver	NA	NA	0.0620	NA		NA
Silver	NA	20.0		NA	15.1	76
Thallium	NA	NA		NA	0.0248	NA
Thallium	NA	NA	0.0524	NA		NA
Vanadium	NA	NA		NA	0.259	NA
Vanadium	NA	NA	0.849	NA		NA
Zinc	NA	NA	5.26	NA		NA
Zinc	NA	20.0		NA	18.5	93

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J2006

Sequence: IJ82006

Check Nbr: 4

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Arsenic	NA	NA	-0.896	NA		NA
Arsenic	NA	20.0		NA	15.1	76
Barium	NA	NA		NA	0.373	NA
Barium	NA	NA	0.355	NA		NA
Beryllium	NA	NA		NA	-0.00178	NA
Beryllium	NA	NA	0.000970	NA		NA
Cadmium	NA	NA	2.61	NA		NA
Cadmium	NA	20.0		NA	18.1	90
Chromium	NA	NA	2.32	NA		NA
Chromium	NA	20.0		NA	18.6	93
Cobalt	NA	NA	0.200	NA		NA
Cobalt	NA	20.0		NA	16.6	83
Copper	NA	NA	2.17	NA		NA
Copper	NA	20.0		NA	17.3	87
Lead	NA	NA		NA	0.506	NA
Lead	NA	NA	0.501	NA		NA
Molybdenum	NA	2000		NA	1930	97
Molybdenum	2000	NA	1900	95		NA
Nickel	NA	NA	1.03	NA		NA
Nickel	NA	20.0		NA	15.9	80
Selenium	NA	NA		NA	0.236	NA
Selenium	NA	NA	0.177	NA		NA
Silver	NA	NA	0.0627	NA		NA
Silver	NA	20.0		NA	15.4	77
Thallium	NA	NA		NA	0.0130	NA
Thallium	NA	NA	0.0254	NA		NA
Vanadium	NA	NA		NA	0.331	NA
Vanadium	NA	NA	0.677	NA		NA
Zinc	NA	NA	5.24	NA		NA
Zinc	NA	20.0		NA	19.5	97

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J2006

Sequence: IJ82006

Check Nbr: 5

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Arsenic	NA	NA	-0.580	NA		NA
Arsenic	NA	20.0		NA	13.7	69
Barium	NA	NA		NA	0.442	NA
Barium	NA	NA	0.445	NA		NA
Beryllium	NA	NA		NA	0.00383	NA
Beryllium	NA	NA	0.00100	NA		NA
Cadmium	NA	NA	2.53	NA		NA
Cadmium	NA	20.0		NA	18.4	92
Chromium	NA	NA	0.569	NA		NA
Chromium	NA	20.0		NA	15.6	78
Cobalt	NA	NA	0.198	NA		NA
Cobalt	NA	20.0		NA	15.5	77
Copper	NA	NA	2.07	NA		NA
Copper	NA	20.0		NA	16.2	81
Lead	NA	NA		NA	0.508	NA
Lead	NA	NA	0.507	NA		NA
Molybdenum	NA	2000		NA	2030	102
Molybdenum	2000	NA	2000	100		NA
Nickel	NA	NA	0.832	NA		NA
Nickel	NA	20.0		NA	14.7	73
Selenium	NA	NA		NA	0.322	NA
Selenium	NA	NA	0.256	NA		NA
Silver	NA	NA	0.0632	NA		NA
Silver	NA	20.0		NA	15.2	76
Thallium	NA	NA		NA	0.0210	NA
Thallium	NA	NA	0.0398	NA		NA
Vanadium	NA	NA		NA	0.111	NA
Vanadium	NA	NA	0.419	NA		NA
Zinc	NA	NA	5.34	NA		NA
Zinc	NA	20.0		NA	18.4	92

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: ELAN

Calibration: I8J1801

Sequence: IJ81801

Check Nbr: 1

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Antimony	NA	NA	0.100	NA		NA

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: ELAN

Calibration: I8J1801

Sequence: IJ81801

Check Nbr: 2

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Antimony	NA	NA		NA	0.0370	NA
Antimony	NA	NA	0.0450	NA		NA

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: ELAN

Calibration: I8J1801

Sequence: IJ81801

Check Nbr: 3

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Antimony	NA	NA		NA	0.0320	NA

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: ELAN

Calibration: I8J1801

Sequence: IJ81801

Check Nbr: 4

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Antimony	NA	NA	0.0390	NA		NA

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: ELAN

Calibration: I8J1801

Sequence: IJ81801

Check Nbr: 5

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Antimony	NA	NA		NA	0.0250	NA

* Values outside of QC limits

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020

Laboratory:	TestAmerica Irvine	SDG:	
Client:	Brown and Caldwell - NV	Project:	BP Yerington, NV, Soils
Sequence:	IJ82006	Instrument:	Elan2
		Calibration:	I8J2006

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	IJ82006-CAL1	081020-2-001	10/20/08 15:30
Cal Standard	IJ82006-CAL2	081020-2-002	10/20/08 15:35
Cal Standard	IJ82006-CAL3	081020-2-003	10/20/08 15:40
Cal Standard	IJ82006-CAL4	081020-2-004	10/20/08 15:45
Initial Cal Check	IJ82006-ICV1	081020-2-005	10/20/08 15:50
Initial Cal Blank	IJ82006-ICB1	081020-2-006	10/20/08 15:54
Interference Check A	IJ82006-IFA1	081020-2-007	10/20/08 15:59
Interference Check B	IJ82006-IFB1	081020-2-008	10/20/08 16:03
MRL Check	IJ82006-CRL1	081020-2-010	10/20/08 16:14
MRL Check	IJ82006-CRL2	081020-2-011	10/20/08 16:18
Calibration Check	IJ82006-CCV1	081020-2-022	10/20/08 17:03
Calibration Blank	IJ82006-CCB1	081020-2-023	10/20/08 17:07
MRL Check	IJ82006-CRL3	081020-2-024	10/20/08 17:11
Interference Check A	IJ82006-IFA2	081020-2-025	10/20/08 17:16
Interference Check B	IJ82006-IFB2	081020-2-026	10/20/08 17:20
Calibration Check	IJ82006-CCV2	081020-2-035	10/20/08 18:00
Calibration Blank	IJ82006-CCB2	081020-2-036	10/20/08 18:03
Blank	8J18049-BLK1	081020-2-042	10/20/08 18:27
LCS	8J18049-BS1	081020-2-043	10/20/08 18:31
OU4-UEP-08A-SC	IRJ1092-01	081020-2-044	10/20/08 18:35
OU4-UEP-08A-SC	8J18049-MS1	081020-2-045	10/20/08 18:39
OU4-UEP-08A-SC	8J18049-MSD1	081020-2-046	10/20/08 18:43
Calibration Check	IJ82006-CCV3	081020-2-047	10/20/08 18:47
Calibration Blank	IJ82006-CCB3	081020-2-048	10/20/08 18:51
MRL Check	IJ82006-CRL4	081020-2-049	10/20/08 18:55
Interference Check A	IJ82006-IFA3	081020-2-050	10/20/08 18:59
Interference Check B	IJ82006-IFB3	081020-2-051	10/20/08 19:03
OU4-UEP-08A-SC-FD	IRJ1092-02	081020-2-058	10/20/08 19:32
OU4-UEP-08B-SC	IRJ1092-03	081020-2-059	10/20/08 19:36
OU4-UEP-08B-SC-FD	IRJ1092-04	081020-2-060	10/20/08 19:40
OU4-UEP-11B-SC	IRJ1092-05	081020-2-061	10/20/08 19:44

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Sequence: IJ82006
Instrument: Elan2
Calibration: I8J2006

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	IJ82006-CCV4	081020-2-062	10/20/08 19:48
Calibration Blank	IJ82006-CCB4	081020-2-063	10/20/08 19:52
OU4-UEP-11A-SC	IRJ1092-06	081020-2-069	10/20/08 20:17
Calibration Check	IJ82006-CCV5	081020-2-074	10/20/08 20:36
Calibration Blank	IJ82006-CCB5	081020-2-075	10/20/08 20:40
MRL Check	IJ82006-CRL5	081020-2-076	10/20/08 20:45
Interference Check A	IJ82006-IFA4	081020-2-077	10/20/08 20:52
Interference Check B	IJ82006-IFB4	081020-2-078	10/20/08 20:56
Calibration Check	IJ82006-CCV7	081020-2-091	10/20/08 22:01
Calibration Blank	IJ82006-CCB7	081020-2-092	10/20/08 22:05
Calibration Check	IJ82006-CCV8	081020-2-103	10/20/08 22:54
Calibration Blank	IJ82006-CCB8	081020-2-104	10/20/08 22:58
MRL Check	IJ82006-CRL6	081020-2-105	10/20/08 23:02
Interference Check A	IJ82006-IFA5	081020-2-106	10/20/08 23:06
Interference Check B	IJ82006-IFB5	081020-2-107	10/20/08 23:10

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Sequence: IJ81801

Sb only

Instrument: ELAN

Calibration: I8J1801

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	IJ81801-CAL1	081018-2-001	10/18/08 09:54
Cal Standard	IJ81801-CAL2	081018-2-002	10/18/08 09:59
Cal Standard	IJ81801-CAL3	081018-2-003	10/18/08 10:05
Cal Standard	IJ81801-CAL4	081018-2-004	10/18/08 10:11
Initial Cal Check	IJ81801-ICV1	081018-2-005	10/18/08 10:18
Initial Cal Blank	IJ81801-ICB1	081018-2-006	10/18/08 10:22
Interference Check A	IJ81801-IFA1	081018-2-007	10/18/08 10:27
Interference Check B	IJ81801-IFB2	081018-2-010	10/18/08 10:43
MRL Check	IJ81801-CRL1	081018-2-012	10/18/08 10:53
MRL Check	IJ81801-CRL2	081018-2-013	10/18/08 10:57
Blank	8J17135-BLK1	081018-2-014	10/18/08 11:01
Matrix Spike	8J17135-MS1	081018-2-017	10/18/08 11:13
Matrix Spike Dup	8J17135-MSD1	081018-2-018	10/18/08 11:17
Calibration Check	IJ81801-CCV1	081018-2-024	10/18/08 11:40
Calibration Blank	IJ81801-CCB1	081018-2-025	10/18/08 11:44
LCS	8J17135-BS1	081018-2-026	10/18/08 11:49
OU4-UEP-08A-SC	IRJ1092-01	081018-2-033	10/18/08 12:16
OU4-UEP-08A-SC-FD	IRJ1092-02	081018-2-034	10/18/08 12:20
OU4-UEP-08B-SC	IRJ1092-03	081018-2-035	10/18/08 12:24
Calibration Check	IJ81801-CCV2	081018-2-036	10/18/08 12:28
Calibration Blank	IJ81801-CCB2	081018-2-037	10/18/08 12:32
MRL Check	IJ81801-CRL3	081018-2-038	10/18/08 12:41
Interference Check A	IJ81801-IFA2	081018-2-039	10/18/08 12:44
Interference Check B	IJ81801-IFB3	081018-2-040	10/18/08 12:50
OU4-UEP-08B-SC-FD	IRJ1092-04	081018-2-042	10/18/08 13:02
OU4-UEP-11B-SC	IRJ1092-05	081018-2-043	10/18/08 13:06
OU4-UEP-11A-SC	IRJ1092-06	081018-2-044	10/18/08 13:10
Calibration Check	IJ81801-CCV5	081018-2-078	10/18/08 15:43
Calibration Blank	IJ81801-CCB5	081018-2-079	10/18/08 15:47
Calibration Check	IJ81801-CCV6	081018-2-089	10/18/08 16:26
Calibration Blank	IJ81801-CCB6	081018-2-090	10/18/08 16:30

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020

Laboratory:	TestAmerica Irvine	SDG:	
Client:	Brown and Caldwell - NV	Project:	BP Yerington, NV, Soils
Sequence:	IJ81801	Instrument:	ELAN
		Calibration:	I8J1801

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	IJ81801-CCV7	081018-2-101	10/18/08 17:13
Calibration Blank	IJ81801-CCB7	081018-2-102	10/18/08 17:17
MRL Check	IJ81801-CRL5	081018-2-103	10/18/08 17:21
Interference Check A	IJ81801-IFA4	081018-2-104	10/18/08 17:24
Interference Check B	IJ81801-IFB5	081018-2-105	10/18/08 17:29

PREPARATION BENCH SHEET

8J18049

TestAmerica Irvine

Printed: 10/18/2008 12:54:33PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
8J18049-BLK1		QC	10/18/08 09:00	2	50										
8J18049-BS1		QC	10/18/08 09:00	2	50		8090397	1000							
8J18049-MS1		QC	10/18/08 09:00	2	50	IRJ1092-01	8090397	1000							
8J18049-MSD1		QC	10/18/08 09:00	2	50	IRJ1092-01	8090397	1000							
IRJ1092-01	A	Molybdenum-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-01	A	Zinc-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-01	A	Vanadium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-01	A	Thallium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-01	A	Silver-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-01	A	Nickel-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-01	A	Lead-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-01	A	Barium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-01	A	Selenium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-01	A	Arsenic-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-01	A	Copper-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-01	A	Beryllium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-01	A	Cadmium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-01	A	Chromium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-01	A	Cobalt-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-02	A	Molybdenum-6020	10/18/08 09:00	2	50										BP Sequence. J flag

Spiking Witnessed By Date

FR 10/18/08
Preparation Reviewed By Date

FR 10/18/08
Extracts Received By Date

PREPARATION BENCH SHEET

8J18049

TestAmerica Irvine

Printed: 10/18/2008 12:54:33PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1092-02	A	Barium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-02	A	Vanadium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-02	A	Thallium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-02	A	Silver-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-02	A	Selenium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-02	A	Nickel-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-02	A	Zinc-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-02	A	Lead-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-02	A	Copper-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-02	A	Cobalt-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-02	A	Chromium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-02	A	Beryllium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-02	A	Arsenic-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-02	A	Cadmium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-03	A	Molybdenum-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-03	A	Arsenic-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-03	A	Zinc-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-03	A	Vanadium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-03	A	Thallium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-03	A	Silver-6020	10/18/08 09:00	2	50										BP Sequence. J flag

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J18049

TestAmerica Irvine

Printed: 10/18/2008 12:54:33PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1092-03	A	Selenium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-03	A	Nickel-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-03	A	Copper-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-03	A	Cobalt-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-03	A	Chromium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-03	A	Cadmium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-03	A	Barium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-03	A	Beryllium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-03	A	Lead-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-04	A	Copper-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-04	A	Zinc-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-04	A	Vanadium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-04	A	Thallium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-04	A	Silver-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-04	A	Selenium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-04	A	Nickel-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-04	A	Lead-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-04	A	Cobalt-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-04	A	Chromium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-04	A	Cadmium-6020	10/18/08 09:00	2	50										BP Sequence. J flag

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J18049

TestAmerica Irvine

Printed: 10/18/2008 12:54:33PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1092-04	A	Beryllium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-04	A	Barium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-04	A	Arsenic-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-04	A	Molybdenum-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-05	A	Lead-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-05	A	Silver-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-05	A	Zinc-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-05	A	Thallium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-05	A	Selenium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-05	A	Nickel-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-05	A	Molybdenum-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-05	A	Cobalt-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-05	A	Chromium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-05	A	Cadmium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-05	A	Arsenic-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-05	A	Beryllium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-05	A	Vanadium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-05	A	Barium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-05	A	Copper-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-06	A	Copper-6020	10/18/08 09:00	2	50										BP Sequence. J flag

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J18049

TestAmerica Irvine

Printed: 10/18/2008 12:54:33PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1092-06	A	Vanadium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-06	A	Thallium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-06	A	Silver-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-06	A	Selenium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-06	A	Nickel-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-06	A	Lead-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-06	A	Zinc-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-06	A	Cobalt-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-06	A	Chromium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-06	A	Cadmium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-06	A	Beryllium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-06	A	Barium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-06	A	Arsenic-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1092-06	A	Molybdenum-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1207-01	A	Molybdenum-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1207-01	A	Zinc-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1207-01	A	Vanadium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1207-01	A	Thallium-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1207-01	A	Silver-6020	10/18/08 09:00	2	50										BP Sequence. J flag
IRJ1207-01	A	Selenium-6020	10/18/08 09:00	2	50										BP Sequence. J flag

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J17135

TestAmerica Irvine

Printed: 10/18/2008 9:08:39AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP (Aq. Reg.)** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
8J17135-BLK1		QC	10/17/08 18:29	2	50										
8J17135-BS1		QC	10/17/08 18:29	2	50		8090397	1000							
8J17135-MS1		QC	10/17/08 18:29	2	50	IRJ0868-01	8090397	1000							
8J17135-MSD1		QC	10/17/08 18:29	2	50	IRJ0868-01	8090397	1000							
IRJ0868-01	A	Antimony-6020 (Aq Re	10/17/08 18:29	2	50										BP Sequence. J flag
IRJ0868-02	A	Antimony-6020 (Aq Re	10/17/08 18:29	2.01	50										BP Sequence. J flag
IRJ0868-03	A	Antimony-6020 (Aq Re	10/17/08 18:29	2.01	50										BP Sequence. J flag
IRJ0868-04	A	Antimony-6020 (Aq Re	10/17/08 18:29	2.01	50										BP Sequence. J flag
IRJ0868-05	A	Antimony-6020 (Aq Re	10/17/08 18:29	1.99	50										BP Sequence. J flag
IRJ0868-06	A	Antimony-6020 (Aq Re	10/17/08 18:29	1.99	50										BP Sequence. J flag
IRJ0868-07	A	Antimony-6020 (Aq Re	10/17/08 18:29	2.01	50										BP Sequence. J flag
IRJ0868-08	A	Antimony-6020 (Aq Re	10/17/08 18:29	2	50										BP Sequence. J flag
IRJ0868-09	A	Antimony-6020 (Aq Re	10/17/08 18:29	2.01	50										BP Sequence. J flag
IRJ0868-10	A	Antimony-6020 (Aq Re	10/17/08 18:29	1.99	50										BP Sequence. J flag
IRJ0895-01	A	Antimony-6020 (Aq Re	10/17/08 18:29	2	50										BP Sequence. J flag
IRJ0895-02	A	Antimony-6020 (Aq Re	10/17/08 18:29	2	50										BP Sequence. J flag
IRJ0895-03	A	Antimony-6020 (Aq Re	10/17/08 18:29	1.99	50										BP Sequence. J flag
IRJ1092-01	A	Antimony-6020 (Aq Re	10/17/08 18:29	1.99	50										BP Sequence. J flag
IRJ1092-02	A	Antimony-6020 (Aq Re	10/17/08 18:29	1.99	50										BP Sequence. J flag
IRJ1092-03	A	Antimony-6020 (Aq Re	10/17/08 18:29	2	50										BP Sequence. J flag

Spiking Witnessed By Date

FR 10/18/08
Preparation Reviewed By Date

FR 10/18/08
Extracts Received By Date

PREPARATION BENCH SHEET

8J17135

TestAmerica Irvine

Printed: 10/18/2008 9:08:39AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP (Aq. Reg.)** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1092-04	A	Antimony-6020 (Aq Re	10/17/08 18:29	2.01	50										BP Sequence. J flag
IRJ1092-05	A	Antimony-6020 (Aq Re	10/17/08 18:29	2.01	50										BP Sequence. J flag
IRJ1092-06	A	Antimony-6020 (Aq Re	10/17/08 18:29	1.99	50										BP Sequence. J flag

Reagents used in Batch

Reagent	Description	Solvent

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

SEMI-ANNUAL MDL STUDY

Metals by ICPMS - EPA 6020/200.8

Analytical Method: EPA 6020 / 200.8 — Instruments: **Elan2**
Prep Method: EPA 3005A / 200.2
Matrix: **Water** (50ml-->50ml) — Cu [63]: alternative line
Units: **ug/L** — **Fe:** 10 x nominal conc

#	Analyte	Spike(mg/l)		MDL Runs - (ug/L)								Calc Data (ug/L)			final	LIMS Data (ug/L)			Validation Criteria				Grubbs	Symbol
		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	Comm't	
1	Aluminum	<=10	10	10.83	10.73	10.41	10.14	12.33	12.09	15.96	12.54	11.88	1.89	5.66	5.7	6.0	10		OK	-6%	2	119%	2.16	Al [27]
2	Antimony	<=1	1	1.133	1.114	1.131	1.121	1.226	1.223	1.235	1.222	1.18	0.05	0.16	0.2	0.2	2	1	OK	-18%	6	118%		Sb [121]
3	Arsenic	<=1	1	1.427	1.359	1.504	1.296	1.125	1.104	1.065	0.959	1.23	0.19	0.58	0.6	0.70	1		OK	-17%	2	123%		As [75]
4	Barium	<=1	1	1.076	1.085	1.040	1.050	1.174	1.159	1.176	1.205	1.12	0.06	0.19	0.2	0.4	1		OK	-52%	5	112%		Ba [135]
5	Beryllium	<=0.2	0.2	0.219	0.221	0.214	0.209	0.284	0.259	0.256	0.253	0.24	0.03	0.08	0.1	0.2	0.5	0.2	OK	-59%	2	120%		Be [9]
6	Cadmium	<=0.2	0.2	0.212	0.208	0.203	0.209	0.264	0.267	0.247	0.246	0.23	0.03	0.08	0.1	0.11	1	0.2	OK	-27%	2	116%		Cd [114]
7	Cerium	<=1	1	1.031	1.036	1.027	1.031	1.010	1.007	0.991	1.011	1.02	0.02	0.05	0.0	0.35	1		OK	-87%	21	102%		Ce [140]
8	Chromium	<=1	1	1.831	1.849	1.844	1.842	2.223	2.152	2.095	2.269	2.01	0.19	0.57	0.6	0.70	2	1	OK	-19%	2	201%		Cr [52]
9	Cobalt	<=1	1	1.124	1.126	1.117	1.114	1.120	1.130	1.111	1.119	1.12	0.01	0.02	0.0	0.15	1		OK	-87%	52	112%		Co [59]
10	Copper	<=1	1	1.126	1.117	contam.	1.155	1.128	1.144	1.26	1.139	1.15	0.05	0.15	0.2	0.75	2	1	OK	-80%	7	115%	2.19	Cu [65]
11	Copper[63]	<=1	1	1.149	1.149	contam.	1.169	1.152	1.149	1.25	1.156	1.17	0.04	0.12	0.1	0.30	2	1	OK	-60%	8	117%	2.23	Cu [63]
12	Lead	<=1	1	1.177	1.171	1.167	1.162	1.123	1.127	1.129	1.138	1.15	0.02	0.07	0.1	0.3	1		OK	-78%	15	115%		Pb [208]
13	Manganese	<=1	1	1.140	1.067	1.061	1.42	1.066	1.076	1.082	1.100	1.13	0.12	0.36	0.4	0.75	1		OK	-52%	3	113%	2.42	Mn [55]
14	Molybdenum	<=1	1	1.083	1.071	1.059	1.041	1.175	1.180	1.190	1.207	1.13	0.07	0.20	0.2	0.2	2	1	OK	no ch'g	5	113%		Mo [98]
15	Nickel	<=1	1	1.134	1.112	1.32	1.071	1.089	1.107	1.112	1.122	1.13	0.08	0.23	0.2	0.90	2	1	OK	-74%	4	113%	2.4	Ni [60]
16	Selenium	<=1	1	1.022	0.899	0.958	0.882	1.005	1.091	0.974	1.012	0.98	0.07	0.20	0.2	0.3	2	1	OK	-32%	5	98%		Se [82]
17	Silver	<=1	1	1.170	1.133	1.140	1.117	1.217	1.225	1.237	1.218	1.18	0.05	0.14	0.14	0.3	1		OK	-52%	7	118%		Ag [107]
18	Thallium	<=1	1	1.169	1.200	1.190	1.187	1.104	1.109	1.107	1.106	1.15	0.04	0.13	0.1	0.2	1		OK	-35%	8	115%		Tl [205]
19	Uranium	<=1	1	1.170	1.159	1.158	1.155	1.089	1.119	1.100	1.114	1.13	0.03	0.09	0.1	0.5	1		OK	-81%	11	113%		U [238]
20	Vanadium	<=1	2	1.606	1.672	1.415	1.413	1.847	1.701	2.032	1.439	1.64	0.22	0.67	0.7	0.7	2	1	OK	no ch'g	3	82%		V [51]
21	Zinc	<=5	2	2.929	2.838	2.905	2.776	2.917	4.14	3.284	3.321	3.14	0.45	1.36	1.4	2.5	10	5	OK	-46%	1	157%	2.22	Zn [66]
22	Tungsten	<=2														0.5	2							W [184]
	For 0.1ppb MDL																							
17	Silver	<=1	0.2	0.229	0.225	0.230	0.222	0.245	0.243	0.248	0.242	0.24	0.01	0.03	0.03	0.2	1		OK	-85%	7	118%		Ag [107]
9	Cobalt	<=1	0.2	0.218	0.217	0.216	0.221	0.270	0.273	0.250	0.250	0.24	0.02	0.07	0.07	0.15	1		OK	-52%	3	120%		Co [59]
7	Cerium	<=1	0.2	0.201	0.202	0.203	0.203	0.183	0.186	0.181	0.183	0.19	0.01	0.03	0.03	0.35	1		OK	-91%	7	96%		Ce [140]
12	Lead	<=1	0.2	0.243	0.236	0.229	0.237	0.259	0.262	0.254	0.255	0.25	0.01	0.04	0.04	0.10	1		OK	-63%	5	123%		Pb [208]

1ppb	*filename:*	080312-2	080312-2	080312-2	080312-2	080313-1	080313-1	080313-1	080313-1-021
	labnumber:	MDL-1PP	MDL-1PP	MDL-1PP	MDL-1PP	MDL-1PP	MDL-1PP	MDL-1PP	MDL-1PPB-8
	date:	Mar/12/0	Mar/12/0	Mar/12/0	Mar/12/0	Mar/13/0	Mar/13/0	Mar/13/0	Mar/13/08
	time:	14:41	14:45	14:49	14:53	10:37	10:40	10:44	10:48
0.2ppb	*filename:*	080312-2	080312-2	080312-2	080312-2	080313-1	080313-1	080313-1	080313-1-017
	labnumber:	MDL-0.2F	MDL-0.2F	MDL-0.2F	MDL-0.2F	MDL-0.2F	MDL-0.2F	MDL-0.2F	MDL-0.2PPB-8
	date:	Mar/12/0	Mar/12/0	Mar/12/0	Mar/12/0	Mar/13/0	Mar/13/0	Mar/13/0	Mar/13/08
	time:	14:26	14:30	14:34	14:37	10:21	10:25	10:29	10:33
2ppb	*filename:*	080312-2	080312-2	080312-2	080312-2	080313-1	080313-1	080313-1	080313-1-027
	labnumber:	MDL-2PP	MDL-2PP	MDL-2PP	MDL-2PP	MDL-2PP	MDL-2PP	MDL-2PP	MDL-2PPB-8
	date:	Mar/12/0	Mar/12/0	Mar/12/0	Mar/12/0	Mar/13/0	Mar/13/0	Mar/13/0	Mar/13/08
	time:	15:06	15:10	15:13	15:17	11:00	11:04	11:08	11:11
10ppb	*filename:*	080312-2	080312-2	080312-2	080312-2	080313-1	080313-1	080313-1	080313-1-031

SEMI-ANNUAL MDL STUDY

Metals by ICPMS - EPA 6020/200.8

Analyt. Method: EPA 6020 / 200.8 — Instruments: **Elan**
Prep Method: EPA 3005A / 200.2
Matrix: **Water** (50ml-->50ml) — Cu [63]: alternative line
Units: **ug/L** — Fe: 10 x nominal conc

Reviewed: T.Vu (Apr/10/08)

#	Analyte	Spike(mg/l)		MDL Runs - (ug/L)								Calc Data (ug/L)			final	LIMS Data (ug/L)			Validation Criteria				Grubbs	Symbol
		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	Comm't	
1	Aluminum	<=10	10	12.38	12.27	11.63	11.59	11.47	11.44	14.68	11.99	12.18	1.07	3.21	3.2	6.0	10		OK	-46%	3	122%	2.33	Al [27]
2	Antimony	<=1	1	1.091	1.095	1.094	1.086	1.074	1.113	1.087	1.088	1.09	0.01	0.03	0.0	0.2	2	1	OK	-84%	30	109%		Sb [121]
3	Arsenic	<=1	1	1.027	1.072	1.046	1.121	0.698	0.706	0.94	0.666	0.91	0.19	0.57	0.6	0.70	1		OK	-19%	2	91%		As [75]
4	Barium	<=1	1	1.116	1.108	1.064	1.104	1.082	1.055	1.074	1.101	1.09	0.02	0.07	0.1	0.4	1		OK	-83%	15	109%		Ba [135]
5	Beryllium	<=0.2	0.2	0.221	0.221	0.216	0.235	0.218	0.26	0.268	0.211	0.23	0.02	0.06	0.06	0.075	0.5	0.2	OK	-14%	3	116%		Be [9]
6	Cadmium	<=0.2	0.2	0.201	0.207	0.208	0.203	0.201	**0.215**	0.203	0.203	0.21	0.00	0.01	0.01	0.11	1	0.2	OK	-87%	14	103%	2.09	Cd [114]
7	Cerium	<=1	1	1.114	1.129	1.109	1.109	1.089	1.084	1.084	1.085	1.10	0.02	0.05	0.1	0.35	1		OK	-85%	19	110%		Ce [140]
8	Chromium	<=1	1	1.3	1.257	1.259	1.218	1.27	1.281	1.284	1.306	1.27	0.03	0.08	0.1	0.70	2	1	OK	-88%	12	127%		Cr [52]
9	Cobalt	<=1	1	1.124	1.109	1.115	1.098	1.099	1.112	1.108	1.122	1.11	0.01	0.03	0.0	0.15	1		OK	-81%	35	111%		Co [59]
10	Copper	<=1	1	1.144	1.16	1.131	1.132	1.131	1.074	**1.248**	1.079	1.14	0.05	0.16	0.2	0.75	2	1	OK	-78%	6	114%	2.05	Cu [65]
11	Copper[63]	<=1	1	1.144	1.145	1.142	1.168	1.097	1.125	**1.249**	1.118	1.15	0.05	0.14	0.1	0.30	2	1	OK	-54%	7	115%	2.19	Cu [63]
12	Lead	<=1	1	1.168	1.145	1.15	1.14	1.119	1.143	1.133	1.109	1.14	0.02	0.05	0.1	0.3	1		OK	-82%	18	114%		Pb [208]
13	Manganese	<=1	1	1.136	1.083	1.05	1.088	1.106	1.126	1.143	1.114	1.11	0.03	0.09	0.1	0.75	1		OK	-88%	11	111%		Mn [55]
14	Molybdenum	<=1	1	1.122	1.261	1.252	1.117	1.074	1.061	1.08	1.06	1.13	0.08	0.25	0.2	0.2	2	1	OK	24%	4	113%		Mo [98]
15	Nickel	<=1	1	1.179	1.187	1.156	1.171	1.047	1.107	1.064	1.093	1.13	0.05	0.16	0.2	0.90	2	1	OK	-82%	6	113%		Ni [60]
16	Selenium	<=1	1	0.927	1.007	0.973	0.92	0.93	0.959	0.97	0.927	0.95	0.03	0.09	0.1	0.3	2	1	OK	-69%	11	95%		Se [82]
17	Silver	<=1	1	1.152	1.143	1.123	1.12	1.11	1.112	1.122	1.102	1.12	0.02	0.05	0.1	0.3	1		OK	-83%	20	112%		Ag [107]
18	Thallium	<=1	1	1.192	1.205	1.189	1.18	1.132	1.148	1.157	1.138	1.17	0.03	0.08	0.1	0.2	1		OK	-59%	12	117%		Tl [205]
19	Uranium	<=1	1	1.179	1.142	1.14	1.156	1.145	1.173	1.172	1.15	1.16	0.02	0.05	0.0	0.5	1		OK	-91%	22	116%		U [238]
20	Vanadium	<=1	1	1.17	1.102	1.087	0.997	1.079	1.011	1.219	1.055	1.09	0.08	0.23	0.2	0.7	2	1	OK	-68%	4	109%		V [51]
21	Zinc	<=5	2	2.843	2.725	2.725	2.66	2.398	**3.615**	2.8	2.802	2.82	0.35	1.05	1.0	2.5	10	5	OK	-58%	2	141%	2.27	Zn [66]
22	Tungsten	<=2														0.5	2							W [184]

For 0.1 ppb MDL:

17	Silver	<=1	0.2	0.227	0.228	0.231	0.215	0.222	0.225	0.231	0.225	0.23	0.01	0.02	0.02	0.2	1		OK	-92%	13	113%		Ag [107]

INITIAL AND CONTINUOUS CALIBRATION CHECK

EPA 245.1/7470A/7471A - MERCURY

CV-Hg2
Units: ug/L
RL: 0.2

10/14/2008

ICV Spike: 8
CCV Spike: 4
Sequence: 081014-3-007

Analyte												
	labnumber:	ICV	ICB	.2PPB	CCV	CCB	CCV	CCB	CCV	CCB	CCV	CCB
	filename:	081014-3-007	081014-3-008	081014-3-009	081014-3-020	081014-3-021	081014-3-031	081014-3-032	081014-3-043	081014-3-044	081014-3-050	081014-3-051
	analyzed:	Oct/14/08	Oct/14/08	Oct/14/08	Oct/14/08	Oct/14/08	Oct/14/08	Oct/14/08	Oct/14/08	Oct/14/08	Oct/14/08	Oct/14/08
	time:	3:36:50 PM	3:38:49 PM	3:40:48 PM	4:22:22 PM	4:24:25 PM	4:48:01 PM	4:50:04 PM	5:19:38 PM	5:21:40 PM	5:36:58 PM	5:39:00 PM
Hg 253.7		7.73	0.01	0.23	4.25	-0.03	4.41	-0.04	4.19	-0.03	4.32	-0.04
	Spike:	8		0.2	4		4		4		4	
	Rec (%):	97		115	106		110		105		108	
	Limits (%):	90-110		50-150	90-110		90-110		90-110		90-110	

RUN LOG

Intrument: ***CV-Hg2***

Calib.file #: 081014-3 Calib. date: 10/14/2008

#	File_Name	Lab_Number	Dilution	Analyzed	Time
1	081014-3-001	Calibration Blank	1	Oct/14/08	3:22:41 PM
2	081014-3-002	0.2ppb	1	Oct/14/08	3:24:38 PM
3	081014-3-003	1.0ppb	1	Oct/14/08	3:26:36 PM
4	081014-3-004	5.0ppb	1	Oct/14/08	3:28:34 PM
5	081014-3-005	10.0ppb	1	Oct/14/08	3:30:34 PM
6	081014-3-006	15.0ppb	1	Oct/14/08	3:32:34 PM
7	081014-3-007	ICV	1	Oct/14/08	3:36:50 PM
8	081014-3-008	ICB	1	Oct/14/08	3:38:49 PM
9	081014-3-009	.2PPB	1	Oct/14/08	3:40:48 PM
10	081014-3-010	8J14087-BLK1	1	Oct/14/08	4:02:34 PM
11	081014-3-011	8J14087-BS1	1	Oct/14/08	4:04:31 PM
12	081014-3-012	IRJ0895-01	1	Oct/14/08	4:06:28 PM
13	081014-3-013	8J14087-MS1	1	Oct/14/08	4:08:26 PM
14	081014-3-014	8J14087-MSD1	1	Oct/14/08	4:10:23 PM
15	081014-3-015	IRJ0895-02	1	Oct/14/08	4:12:22 PM
16	081014-3-016	IRJ0895-03	1	Oct/14/08	4:14:21 PM
17	081014-3-017	IRJ0895-04	1	Oct/14/08	4:16:21 PM
18	081014-3-018	IRJ0896-01	1	Oct/14/08	4:18:21 PM
19	081014-3-019	IRJ0940-10	1	Oct/14/08	4:20:21 PM
20	081014-3-020	CCV	1	Oct/14/08	4:22:22 PM
21	081014-3-021	CCB	1	Oct/14/08	4:24:25 PM
22	081014-3-022	IRJ0940-13	1	Oct/14/08	4:30:17 PM
23	081014-3-023	IRJ0940-15	1	Oct/14/08	4:32:17 PM
24	081014-3-024	IRJ1037-01	1	Oct/14/08	4:34:19 PM
25	081014-3-025	IRJ1149-01	1	Oct/14/08	4:36:21 PM
26	081014-3-026	IRJ1092-01	1	Oct/14/08	4:38:19 PM
27	081014-3-027	IRJ1092-02	1	Oct/14/08	4:40:14 PM
28	081014-3-028	IRJ1092-03	1	Oct/14/08	4:42:09 PM
29	081014-3-029	IRJ1092-04	1	Oct/14/08	4:44:05 PM
30	081014-3-030	IRJ1092-05	1	Oct/14/08	4:46:01 PM
31	081014-3-031	CCV	1	Oct/14/08	4:48:01 PM
32	081014-3-032	CCB	1	Oct/14/08	4:50:04 PM
33	081014-3-033	IRJ1092-06	1	Oct/14/08	4:52:05 PM
34	081014-3-034	IRJ1113-01	1	Oct/14/08	4:54:03 PM
35	081014-3-035	IRJ1113-02	1	Oct/14/08	4:56:01 PM
36	081014-3-036	8J14097-BLK1	1	Oct/14/08	4:57:59 PM
37	081014-3-037	8J14097-BS1	1	Oct/14/08	4:59:58 PM
38	081014-3-038	IRJ1207-01	1	Oct/14/08	5:01:57 PM
39	081014-3-039	8J14097-MS1	1	Oct/14/08	5:03:57 PM
40	081014-3-041	8J14097-MSD1	1	Oct/14/08	5:05:58 PM
41	081014-3-040	8J14097-MSD1	1	Oct/14/08	5:05:58 PM
42	081014-3-042	8J14097-MSD1	1	Oct/14/08	5:17:36 PM
43	081014-3-043	CCV	1	Oct/14/08	5:19:38 PM
44	081014-3-044	CCB	1	Oct/14/08	5:21:40 PM
45	081014-3-045	IRJ1207-02	1	Oct/14/08	5:23:42 PM
46	081014-3-046	IRJ1207-03	1	Oct/14/08	5:25:43 PM
47	081014-3-047	IRJ1207-02	1	Oct/14/08	5:27:45 PM
48	081014-3-048	IRJ1207-03	1	Oct/14/08	5:29:46 PM
49	081014-3-049	IRJ1207-02	1	Oct/14/08	5:34:56 PM
50	081014-3-050	CCV	1	Oct/14/08	5:36:58 PM
51	081014-3-051	CCB	1	Oct/14/08	5:39:00 PM
52	081014-3-052	BP CHK	1	Oct/14/08	5:41:00 PM

PREPARATION BENCH SHEET

8J14087

TestAmerica Irvine

Printed: 10/14/2008 2:53:15PM

Matrix: Soil

Prepared using: Metals - EPA 7471A Hg

(No Surrogate)

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	ul Surrogate	Initials		Extraction Comments
8J14087-BLK1		QC	10/14/08 14:46	0.5	50							
8J14087-BS1		QC	10/14/08 14:46	0.5	50		8100266	400				
8J14087-MS1		QC	10/14/08 14:46	0.5	50	IRJ0895-01	8100266	400				
8J14087-MSD1		QC	10/14/08 14:46	0.5	50	IRJ0895-01	8100266	400				
IRJ0895-01	A	Mercury-7470/7471	10/14/08 14:46	0.5	50							BP Sequence. J flag
IRJ0895-02	A	Mercury-7470/7471	10/14/08 14:46	0.5	50							BP Sequence. J flag
IRJ0895-03	A	Mercury-7470/7471	10/14/08 14:46	0.5	50							BP Sequence. J flag
IRJ0895-04	A	Mercury-7470/7471	10/14/08 14:46	0.5	50							BP Sequence. J flag
IRJ0896-01	A	Mercury-7470/7471	10/14/08 14:46	0.5	50							
IRJ0940-10	A	Mercury-7470/7471	10/14/08 14:46	0.5	50							
IRJ0940-13	A	Mercury-7470/7471	10/14/08 14:46	0.5	50							
IRJ0940-15	A	Mercury-7470/7471	10/14/08 14:46	0.5	50							
IRJ1037-01	A	Mercury-7470/7471	10/14/08 14:46	0.5	50							
IRJ1092-01	A	Mercury-7470/7471	10/14/08 14:46	0.5	50							BP Sequence. J flag
IRJ1092-02	A	Mercury-7470/7471	10/14/08 14:46	0.5	50							BP Sequence. J flag
IRJ1092-03	A	Mercury-7470/7471	10/14/08 14:46	0.5	50							BP Sequence. J flag
IRJ1092-04	A	Mercury-7470/7471	10/14/08 14:46	0.5	50							BP Sequence. J flag
IRJ1092-05	A	Mercury-7470/7471	10/14/08 14:46	0.5	50							BP Sequence. J flag
IRJ1092-06	A	Mercury-7470/7471	10/14/08 14:46	0.5	50							BP Sequence. J flag
IRJ1113-01	B	Mercury-7470/7471	10/14/08 14:46	0.5	50							

N/A
Spiking Witnessed By — Date

DB
Preparation Reviewed By — Date 10/14/08

DB
Extracts Received By — Date 10/14/08

MDL STUDY & VERIFICATION

MERCURY by COLD VAPOR ATOMIC ABSORPTION

EPA 7470A/ 7471A / 245.1

Analyt. Method: EPA 7471 / 7471A / 245.1 P/E FIMS2
Prep Method: EPA 245.1 / 7470 A
Matrix: Water (20ml-->20ml)
Units: ug/L(raw) - mg/L(final)

Reviewed: T. Vu (Sept/19/08)

#	Analyte	Spike raw (ug/L)	Spike final (mg/L)	MDL Runs - (ug/L oc) Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	MDL Calculation Avr'g	Std Dev	oc MDL	final MDL	LIMS (mg/L) MDL	MRL	Validation Criteria MDL<RL	Ch'g	avr'g-to-calcMDL [1-10]	spike-to-LimsMDL [1-2]	%Rec	Comm't Grubbs test
			filename:	080918-3-0	080918-3-010	080918-3-0	080918-3-0	080918-4-009	080918-4-0	080918-4-0	080918-4-012												
			labnumber:	MDL1 wate	MDL2 water	MDL3 wate	MDL4 wate	MDL5 water	MDL6 wate	MDL7 wate	MDL8 water												
			date:	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08												
			time:	18:15	18:17	18:19	18:21	18:44	18:46	18:48	18:50												
1	Mercury	0.2	0.0002	0.1863	0.201	0.193	0.209	0.202	0.180	0.203	0.206	0.198	0.010	0.0301	0.00003	0.0001	0.0002	OK	-70%	6.6	2.0	99%	Verified

Analyt. Method: EPA 7471 / 7471A / 245.1 P/E FIMS2
Prep Method: EPA 245.1 / 7470 A
Matrix: Soil (0.5g-->50ml)
Units: ug/L(raw) - mg/Kg(final)

Reviewed: T. Vu (Sept/19/08)

#	Analyte	Spike raw (ug/L)	Spike final (mg/Kg)	MDL Runs - (ug/L oc) Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	MDL Calculation Avr'g	Std Dev	oc MDL	final MDL	LIMS (mg/Kg) MDL	MRL	Validation Criteria MDL<RL	Ch'g	avr'g-to-calcMDL [1-10]	spike-to-LimsMDL [1-2]	%Rec	Comm't Grubbs test
			filename:	080918-1-0	080918-1-023	080918-1-0	080918-1-0	080918-2-009	080918-2-0	080918-2-011													
			labnumber:	MDL1 soil	MDL2 soil	MDL3 soil	MDL4 soil	MDL5 soil	MDL6 soil	MDL7 soil													
			date:	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08													
			time:	17:08	17:09	17:11	17:13	17:42	17:44	17:46													
1	Mercury	0.2	0.02	0.196	0.184	0.165	0.167	0.186	0.189	0.164		0.179	0.013	0.0411	0.0041	0.012	0.020	OK	-66%	4.3	1.7	89%	Verified

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

Client:	Brown and Caldwell	**Date Sampled:**	10/12/2008
Project:	BP Yerington, NV, Soils BP Yerington soils	**Date Received:**	10/14/2008
Lab:	IRJ1353		

SAMPLE RECEIPT: Samples were received intact, on ice, with custody seals, and with chain of custody numbers YER2025C and YER2026C. 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 during sample analysis.

QA/QC CRITERIA: Calcium and Magnesium were detected in the Method Blank of batch 8J25010.

Chromium was detected in the Method Blank of batch 8J25009.

The MS and/or MSD recoveries for Boron, Manganese, and Silicon were below acceptance limits due to sample matrix interference for EPA 6010B QC batch 8J25010. See LCS.

The MS and/or MSD recoveries for Antimony were below acceptance limits due to sample matrix interference for EPA 6020 QC batch 8J27132. See LCS.

The MS and/or MSD recoveries for Arsenic, Barium, Copper, and Selenium were below acceptance limits due to sample matrix interference for EPA 6020 QC batch 8J25009. See LCS.

The MS and/or MSD recoveries for Selenium were below acceptance limits due to sample matrix interference for EPA 6020 QC batch 8J25009. See LCS.

Due to high levels of Aluminum, Calcium, Iron, Magnesium, and Potassium in the source, samples 8J25010-MS1 and –MSD1 do not provide useful spike recovery information for EPA 6010B QC batch 8J25010. See LCS.

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

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THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

Client:	Brown and Caldwell	**Date Sampled:**	10/12/2008
Project:	BP Yerington, NV, Soils BP Yerington soils	**Date Received:**	10/14/2008
Lab:	IRJ1353		

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

Silicon reporting limit was raised due to sample matrix effects for EPA 6010B sample IRJ1353-01.

The report was revised on 12/17/08 to include dry-weight correction of sample results. The % Solids data used to calculate dry-weight was determined by the TestAmerica-Richland, WA laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

TestAmerica Irvine

Patty Mata
Project Manager
agm

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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 soils

Sampled: 10/12/08
Received: 10/14/08
Revised: 12/17/08 09:06

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 applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. 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, 2 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

ADDITIONAL INFORMATION: This report was revised on 12/17/08 to include dry-weight correction of sample results. The % solids data used to calculate dry weight was determined by the TestAmerica-Richland, WA laboratory.

LABORATORY ID	CLIENT ID	MATRIX
IRJ1353-01	OU4-UEP-10A-SC	Soil
IRJ1353-02	OU4-UEP-10B-SC	Soil
IRJ1353-03	OU4-FEP-13A-SC	Soil
IRJ1353-04	OU4-FEP-13B-SC	Soil

Reviewed By:

TestAmerica Irvine

Patty Mata
Project Manager

Atlantic Richfield Company
bp
A BP affiliated company

Chain of Custody Record

Project Name: OU4 Phase I
BP BU/AR Region/Enfos Segment:
State or Lead Regulatory Agency: EPA Region 9
Requested Due Date (mm/dd/yy): NA

IRVINE Soil Geochemical — COC # YER 2025C

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name:	Test America-Irvine	BP/AR Facility No.:		Consultant/Contractor:	Brown and Caldwell
Address:	Derian Avenue, Suite	BP/AR Facility Address:	Yerington, NV	Address:	3264 Goni Rd
	Irvine, CA 92614	Site Lat/Long:	NA		Carson City, NV 89706
Lab PM:	Patty Mata	California Global ID No	NA	Consultant/Contractor Project No.:	136259
Tele/Fax:	949-261-1022 (x213)	Enfos Project No.:	001KF-0193	Consultant/Contractor PM:	Penny Bassett
BP/AR EBM:	Roy Thun	Provision or OOC (circle one)		Tele/Fax:	775-315-4343
Address:	6 Centerpoint Avenue	Phase/WBS:	32	Report Type & QC Level:	LEVEL 2 4
	La Palma, CA 90623	Sub Phase/Task:	03	E-mail EDD To:	skocsis@brwncald.com
Tele/Fax:	661-287-3855	Cost Element:	05	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)	

Lab Bottle Order No: IRJ1353

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: Metals (6010/6020)	Requested Analysis: Mercury (7471)	Sample Point Lat/Long and Comments
1	OU4-UEP-10A-SC	10:15	10/12	X				1	X					X	X	3-5'
2	OU4-UEP-10B-SC	10:30	10/12	X				1	X					X	X	17-20'
3																
4																
5																
6																
7																
8																
9																
10																

0.0
10/14/08
13:00

		Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:	Penny Bassett	Penny Bassett	10/13	1200			
Sampler's Company:	Brown & Caldwell						
Shipment Date:	10/13/08						
Shipment Method:	FedEx Air						
Shipment Tracking No:	8646 4326 1569				VnBaull	10/14/08	10:35

Special Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 6.8/6.0 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

#037

BP COC Rev. 5 10/11/2006

Atlantic Richfield Company
bp
A BP affiliated company

Chain of Custody Record

Project Name: OU4 Phase I
BP BU/AR Region/Enfos Segment:
State or Lead Regulatory Agency: EPA Region 9
Requested Due Date (mm/dd/yy): NA

IRVINE Soil Geochemical — COC # YER 2026 C

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name:	Test America-Irvine	BP/AR Facility No.:		Consultant/Contractor:	Brown and Caldwell
Address:	Derian Avenue, Suite	BP/AR Facility Address:	Yerington, NV	Address:	3264 Goni Rd
	Irvine, CA 92614	Site Lat/Long:	NA		Carson City, NV 89706
Lab PM:	Patty Mata	California Global ID Nc	NA	Consultant/Contractor Project No.:	136259
Tele/Fax:	949-261-1022 (x213)	Enfos Project No.:	001KF-0193	Consultant/Contractor PM:	Penny Bassett
BP/AR EBM:	Roy Thun	Provision or OOC (circle one)		Tele/Fax:	775-315-4343
Address:	6 Centerpoint Avenue	Phase/WBS:	32	Report Type & QC Level:	LEVEL 2 4
	La Palma, CA 90623	Sub Phase/Task:	03	E-mail EDD To:	skocsis@brwncald.com
Tele/Fax:	661-287-3855	Cost Element:	05	Invoice to:	Consultant or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: Metals (6010/6020)	Requested Analysis: Mercury (7471)	Sample Point Lat/Long and Comments
1	OU4-FEP-13A-SC	14:40	10/12	X				1	X					X	X	6-8' bgs
2	OU4-FEP-13B-SC	17:00	10/12	X				1	X					X	X	40-43' bgs
3																
4																
5																
6																0.0
7																
8																
9																
10																

		Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:	CHAD THALER	Chad T Thaler	10/13	0730	Penny Bassett	10/13	0713
Sampler's Company:	Brown & Caldwell	Penny Bassett	10/13	1200			
Shipment Date:	10/13/08						
Shipment Method:	FedEx Air						
Shipment Tracking No:	8646 4326 1569				V n Bauer	10/14/08	1035

Special Instructions:

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: 6.8/6.0 °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP COC Rev. 5 10/11/2006

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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 soils
Report Number: IRJ1353

Sampled: 10/12/08
Received: 10/14/08

METALS

Analyte	Method	Batch	MDL	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1353-01 (OU4-UEP-10A-SC - Soil)									
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25010	8.8	55	**27**	2	10/25/08	10/27/08	RL1, J
Sample ID: IRJ1353-02 (OU4-UEP-10B-SC - Soil)									
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25010	4.1	26	**55**	1	10/25/08	10/25/08	
Sample ID: IRJ1353-03 (OU4-FEP-13A-SC - Soil)									
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25010	3.8	24	**200**	1	10/25/08	10/25/08	M2
Sample ID: IRJ1353-04 (OU4-FEP-13B-SC - Soil)									
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25010	4.0	25	**340**	1.01	10/25/08	10/25/08	
Sample ID: IRJ1353-01 (OU4-UEP-10A-SC - Soil)									
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25010	6.2	12	**24000**	1	10/25/08	10/25/08	
Antimony	EPA 6020	8J27132	0.12	1.2	**0.56**	1	10/27/08	10/28/08	M2, J
Arsenic	EPA 6020	8J25009	0.44	0.62	**71**	0.995	10/25/08	10/25/08	
Barium	EPA 6020	8J25009	0.25	0.62	**170**	0.995	10/25/08	10/25/08	
Beryllium	EPA 6020	8J25009	0.12	0.37	**0.42**	0.995	10/25/08	10/27/08	
Boron	EPA 6010B	8J25010	5.2	12	**13**	2	10/25/08	10/27/08	
Cadmium	EPA 6020	8J25009	0.075	0.62	**0.090**	0.995	10/25/08	10/25/08	J
Calcium	EPA 6010B	8J25010	16	38	**4500**	2	10/25/08	10/27/08	
Chromium	EPA 6020	8J25009	0.44	1.2	**25**	0.995	10/25/08	10/25/08	
Cobalt	EPA 6020	8J25009	0.10	0.62	**6.9**	0.995	10/25/08	10/25/08	
Copper	EPA 6020	8J25009	0.47	1.2	**100**	0.995	10/25/08	10/25/08	
Iron	EPA 6010B	8J25010	3.8	12	**36000**	2	10/25/08	10/27/08	
Lead	EPA 6020	8J25009	0.19	0.62	**11**	0.995	10/25/08	10/27/08	
Magnesium	EPA 6010B	8J25010	2.5	25	**7400**	2	10/25/08	10/27/08	
Manganese	EPA 6010B	8J25010	2.0	2.5	**240**	2	10/25/08	10/27/08	
Mercury	EPA 7471A	8J24095	0.015	0.025	**0.17**	1	10/24/08	10/24/08	
Molybdenum	EPA 6020	8J25009	0.12	1.2	**24**	0.995	10/25/08	10/25/08	
Nickel	EPA 6020	8J25009	0.56	1.2	**11**	0.995	10/25/08	10/25/08	
Potassium	EPA 6010B	8J25010	48	120	**3100**	2	10/25/08	10/27/08	
Selenium	EPA 6020	8J25009	0.19	1.2	**1.8**	0.995	10/25/08	10/25/08	
Silver	EPA 6020	8J25009	0.19	0.62	ND	0.995	10/25/08	10/25/08	
Sodium	EPA 6010B	8J25010	60	120	**2400**	2	10/25/08	10/27/08	
Thallium	EPA 6020	8J25009	0.12	0.62	**1.4**	0.995	10/25/08	10/25/08	
Vanadium	EPA 6020	8J25009	0.44	1.2	**63**	0.995	10/25/08	10/25/08	
Zinc	EPA 6020	8J25009	1.6	12	**50**	0.995	10/25/08	10/25/08	

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

Project ID: BP Yerington soils
Report Number: IRJ1353

Sampled: 10/12/08
Received: 10/14/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1353-02 (OU4-UEP-10B-SC - Soil)									
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25010	5.8	12	**8500**	1	10/25/08	10/25/08	
Antimony	EPA 6020	8J27132	0.12	1.2	**0.47**	1	10/27/08	10/28/08	J
Arsenic	EPA 6020	8J25009	0.41	0.58	**11**	0.995	10/25/08	10/25/08	
Barium	EPA 6020	8J25009	0.23	0.58	**81**	0.995	10/25/08	10/25/08	
Beryllium	EPA 6020	8J25009	0.12	0.35	**0.36**	0.995	10/25/08	10/27/08	
Boron	EPA 6010B	8J25010	2.5	5.8	ND	1	10/25/08	10/28/08	
Cadmium	EPA 6020	8J25009	0.070	0.58	**0.11**	0.995	10/25/08	10/25/08	J
Calcium	EPA 6010B	8J25010	7.3	18	**40000**	1	10/25/08	10/25/08	
Chromium	EPA 6020	8J25009	0.41	1.2	**8.0**	0.995	10/25/08	10/25/08	
Cobalt	EPA 6020	8J25009	0.093	0.58	**6.0**	0.995	10/25/08	10/25/08	
Copper	EPA 6020	8J25009	0.44	1.2	**14**	0.995	10/25/08	10/25/08	
Iron	EPA 6010B	8J25010	1.8	5.8	**12000**	1	10/25/08	10/25/08	
Lead	EPA 6020	8J25009	0.17	0.58	**3.6**	0.995	10/25/08	10/27/08	
Magnesium	EPA 6010B	8J25010	1.2	12	**3600**	1	10/25/08	10/25/08	
Manganese	EPA 6010B	8J25010	0.93	1.2	**420**	1	10/25/08	10/28/08	
Mercury	EPA 7471A	8J24095	0.014	0.023	**0.048**	1	10/24/08	10/24/08	
Molybdenum	EPA 6020	8J25009	0.12	1.2	**1.9**	0.995	10/25/08	10/25/08	
Nickel	EPA 6020	8J25009	0.52	1.2	**5.6**	0.995	10/25/08	10/25/08	
Potassium	EPA 6010B	8J25010	22	58	**830**	1	10/25/08	10/25/08	
Selenium	EPA 6020	8J25009	0.17	1.2	**0.20**	0.995	10/25/08	10/25/08	J
Silver	EPA 6020	8J25009	0.17	0.58	ND	0.995	10/25/08	10/25/08	
Sodium	EPA 6010B	8J25010	28	58	**1700**	1	10/25/08	10/25/08	
Thallium	EPA 6020	8J25009	0.12	0.58	**0.17**	0.995	10/25/08	10/25/08	J
Vanadium	EPA 6020	8J25009	0.41	1.2	**38**	0.995	10/25/08	10/25/08	
Zinc	EPA 6020	8J25009	1.5	12	**26**	0.995	10/25/08	10/25/08	

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

Project ID: BP Yerington soils
Report Number: IRJ1353

Sampled: 10/12/08
Received: 10/14/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1353-03 (OU4-FEP-13A-SC - Soil)									
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25010	5.4	11	**7600**	1	10/25/08	10/25/08	MHA
Antimony	EPA 6020	8J27132	0.11	1.1	**0.68**	1	10/27/08	10/28/08	J
Arsenic	EPA 6020	8J25009	0.38	0.54	**86**	1	10/25/08	10/25/08	M2
Barium	EPA 6020	8J25009	0.22	0.54	**95**	1	10/25/08	10/25/08	M2
Beryllium	EPA 6020	8J25009	0.11	0.32	**0.22**	1	10/25/08	10/27/08	J
Boron	EPA 6010B	8J25010	2.3	5.4	ND	1	10/25/08	10/25/08	M2
Cadmium	EPA 6020	8J25009	0.065	0.54	ND	1	10/25/08	10/25/08	
Calcium	EPA 6010B	8J25010	6.8	16	**1300**	1	10/25/08	10/25/08	MHA
Chromium	EPA 6020	8J25009	0.38	1.1	**18**	1	10/25/08	10/25/08	
Cobalt	EPA 6020	8J25009	0.086	0.54	**2.6**	1	10/25/08	10/25/08	
Copper	EPA 6020	8J25009	0.41	1.1	**160**	1	10/25/08	10/25/08	M2
Iron	EPA 6010B	8J25010	1.6	5.4	**18000**	1	10/25/08	10/25/08	MHA
Lead	EPA 6020	8J25009	0.16	0.54	**6.0**	1	10/25/08	10/27/08	
Magnesium	EPA 6010B	8J25010	1.1	11	**2400**	1	10/25/08	10/25/08	MHA
Manganese	EPA 6010B	8J25010	0.86	1.1	**79**	1	10/25/08	10/27/08	M2
Mercury	EPA 7471A	8J24095	0.013	0.022	**0.49**	1	10/24/08	10/24/08	
Molybdenum	EPA 6020	8J25009	0.11	1.1	**1.3**	1	10/25/08	10/25/08	
Nickel	EPA 6020	8J25009	0.49	1.1	**3.5**	1	10/25/08	10/25/08	
Potassium	EPA 6010B	8J25010	21	54	**2800**	1	10/25/08	10/25/08	MHA
Selenium	EPA 6020	8J25009	0.16	1.1	**15**	1	10/25/08	10/25/08	M2
Silver	EPA 6020	8J25009	0.16	0.54	ND	1	10/25/08	10/25/08	
Sodium	EPA 6010B	8J25010	26	54	**200**	1	10/25/08	10/25/08	
Thallium	EPA 6020	8J25009	0.11	0.54	**18**	1	10/25/08	10/25/08	
Vanadium	EPA 6020	8J25009	0.38	1.1	**27**	1	10/25/08	10/25/08	
Zinc	EPA 6020	8J25009	1.4	11	**20**	1	10/25/08	10/25/08	

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Carson City, NV 89706
Attention: Penny Bassett

Project ID: BP Yerington soils

Report Number: IRJ1353

Sampled: 10/12/08
Received: 10/14/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1353-04 (OU4-FEP-13B-SC - Soil)									
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25010	5.7	11	**9800**	1.01	10/25/08	10/25/08	
Antimony	EPA 6020	8J27132	0.11	1.1	**0.42**	1	10/27/08	10/28/08	J
Arsenic	EPA 6020	8J25009	0.40	0.57	**22**	1.01	10/25/08	10/25/08	
Barium	EPA 6020	8J25009	0.23	0.57	**91**	1.01	10/25/08	10/25/08	
Beryllium	EPA 6020	8J25009	0.11	0.34	**0.44**	1.01	10/25/08	10/27/08	
Boron	EPA 6010B	8J25010	2.4	5.7	**3.2**	1.01	10/25/08	10/28/08	J
Cadmium	EPA 6020	8J25009	0.069	0.57	ND	1.01	10/25/08	10/25/08	
Calcium	EPA 6010B	8J25010	7.1	17	**8100**	1.01	10/25/08	10/25/08	
Chromium	EPA 6020	8J25009	0.40	1.1	**13**	1.01	10/25/08	10/25/08	
Cobalt	EPA 6020	8J25009	0.091	0.57	**3.9**	1.01	10/25/08	10/25/08	
Copper	EPA 6020	8J25009	0.43	1.1	**78**	1.01	10/25/08	10/25/08	
Iron	EPA 6010B	8J25010	1.7	5.7	**12000**	1.01	10/25/08	10/25/08	
Lead	EPA 6020	8J25009	0.17	0.57	**8.4**	1.01	10/25/08	10/27/08	
Magnesium	EPA 6010B	8J25010	1.1	11	**2800**	1.01	10/25/08	10/25/08	
Manganese	EPA 6010B	8J25010	0.91	1.1	**150**	1.01	10/25/08	10/28/08	
Mercury	EPA 7471A	8J24095	0.014	0.023	**0.14**	1	10/24/08	10/24/08	
Molybdenum	EPA 6020	8J25009	0.11	1.1	**1.6**	1.01	10/25/08	10/25/08	
Nickel	EPA 6020	8J25009	0.51	1.1	**5.7**	1.01	10/25/08	10/25/08	
Potassium	EPA 6010B	8J25010	22	57	**1500**	1.01	10/25/08	10/25/08	
Selenium	EPA 6020	8J25009	0.17	1.1	**1.7**	1.01	10/25/08	10/25/08	
Silver	EPA 6020	8J25009	0.17	0.57	ND	1.01	10/25/08	10/25/08	
Sodium	EPA 6010B	8J25010	27	57	**390**	1.01	10/25/08	10/25/08	
Thallium	EPA 6020	8J25009	0.11	0.57	**0.91**	1.01	10/25/08	10/25/08	
Vanadium	EPA 6020	8J25009	0.40	1.1	**45**	1.01	10/25/08	10/25/08	
Zinc	EPA 6020	8J25009	1.5	11	**34**	1.01	10/25/08	10/25/08	

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

Project ID: BP Yerington soils
Report Number: IRJ1353

Sampled: 10/12/08
Received: 10/14/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1353-01 (OU4-UEP-10A-SC - Soil)									
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L11111	0.10	0.10	**80**	1	11/05/08	11/05/08	
Sample ID: IRJ1353-02 (OU4-UEP-10B-SC - Soil)									
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L11111	0.10	0.10	**86**	1	11/05/08	11/05/08	
Sample ID: IRJ1353-03 (OU4-FEP-13A-SC - Soil)									
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L11111	0.10	0.10	**92**	1	11/05/08	11/05/08	
Sample ID: IRJ1353-04 (OU4-FEP-13B-SC - Soil)									
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L11111	0.10	0.10	**88**	1	11/05/08	11/05/08	

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Inorganic Analyses Support Documentation

Environmental Standards Project Name: Arco: Yerington
Sample Collection Dates: 10/12/09
Job Number: 20085047.A
Project Manager: Dina
Laboratory: TestAmerica

Reviewed By: THW
Approved By:
Completion Date:

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

Sample No.	Lab. Control No.
IRJ1353	

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

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

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

Comments:

BLANK ANALYSIS RESULTS FOR INORGANIC PARAMETERS

MATRIX (Aq., S)	BLANK TYPE (✓) METHOD ICB	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			✓				8525010-BLK1	calcium	12.4		62
								magnesium	3.78		18.9
							8525009-BLK1	chromium	0.441		2.2

Aq. = Aqueous; S = Solid

Notes:

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Attention: Penny Bassett

Project ID: BP Yerington soils
Report Number: IRJ1353

Sampled: 10/12/08
Received: 10/14/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J24095 Extracted: 10/24/08											
Blank Analyzed: 10/24/2008 (8J24095-BLK1)											
Mercury	ND	0.020	0.012	mg/kg wet							
LCS Analyzed: 10/24/2008 (8J24095-BS1)											
Mercury	0.796	0.020	0.012	mg/kg wet	0.800		100	85-120			
Matrix Spike Analyzed: 10/24/2008 (8J24095-MS1)						**Source: IRJ1929-21**					
Mercury	1.77	0.042	0.025	mg/kg dry	0.839	0.838	111	65-135			Batch QC
Matrix Spike Dup Analyzed: 10/24/2008 (8J24095-MSD1)						**Source: IRJ1929-21**					
Mercury	1.49	0.042	0.025	mg/kg dry	0.839	0.838	78	65-135	17	20	
Batch: 8J25009 Extracted: 10/25/08											
Blank Analyzed: 10/25/2008-10/27/2008 (8J25009-BLK1)											
Arsenic	ND	0.50	0.35	mg/kg wet							
Barium	ND	0.50	0.20	mg/kg wet							
Beryllium	ND	0.30	0.10	mg/kg wet							
Cadmium	ND	0.50	0.060	mg/kg wet							
Chromium	0.441	1.0	0.35	mg/kg wet							J
Cobalt	ND	0.50	0.080	mg/kg wet							
Copper	ND	1.0	0.38	mg/kg wet							
Lead	ND	0.50	0.15	mg/kg wet							
Molybdenum	ND	1.0	0.10	mg/kg wet							
Nickel	ND	1.0	0.45	mg/kg wet							
Selenium	ND	1.0	0.15	mg/kg wet							
Silver	ND	0.50	0.15	mg/kg wet							
Thallium	ND	0.50	0.10	mg/kg wet							
Vanadium	ND	1.0	0.35	mg/kg wet							
Zinc	ND	10	1.3	mg/kg wet							

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Report Number: IRJ1353

Sampled: 10/12/08
Received: 10/14/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J25009 Extracted: 10/25/08											
LCS Analyzed: 10/25/2008-10/27/2008 (8J25009-BS1)											
Arsenic	46.8	0.50	0.35	mg/kg wet	50.0		94	80-120			
Barium	49.6	0.50	0.20	mg/kg wet	50.0		99	80-120			
Beryllium	48.8	0.30	0.10	mg/kg wet	50.0		98	80-120			
Cadmium	47.4	0.50	0.060	mg/kg wet	50.0		95	80-120			
Chromium	52.5	1.0	0.35	mg/kg wet	50.0		105	80-120			
Cobalt	52.1	0.50	0.080	mg/kg wet	50.0		104	80-120			
Copper	51.1	1.0	0.38	mg/kg wet	50.0		102	80-120			
Lead	51.0	0.50	0.15	mg/kg wet	50.0		102	80-120			
Molybdenum	49.0	1.0	0.10	mg/kg wet	50.0		98	80-120			
Nickel	51.9	1.0	0.45	mg/kg wet	50.0		104	80-120			
Selenium	43.9	1.0	0.15	mg/kg wet	50.0		88	80-120			
Silver	25.8	0.50	0.15	mg/kg wet	25.0		103	80-120			
Thallium	51.7	0.50	0.10	mg/kg wet	50.0		103	80-120			
Vanadium	51.2	1.0	0.35	mg/kg wet	50.0		102	80-120			
Zinc	45.2	10	1.3	mg/kg wet	50.0		90	80-120			
Matrix Spike Analyzed: 10/25/2008-10/27/2008 (8J25009-MS1)						**Source: IRJ1353-03**					
Arsenic	121	0.54	0.38	mg/kg dry	54.1	85.6	66	75-125			*M2*
Barium	118	0.54	0.22	mg/kg dry	54.1	95.1	42	75-125			*M2*
Beryllium	43.7	0.32	0.11	mg/kg dry	54.1	0.223	80	75-125			
Cadmium	46.4	0.54	0.065	mg/kg dry	54.1	ND	86	75-125			
Chromium	63.5	1.1	0.38	mg/kg dry	54.1	18.3	84	75-125			
Cobalt	50.0	0.54	0.086	mg/kg dry	54.1	2.61	88	75-125			
Copper	200	1.1	0.41	mg/kg dry	54.1	160	74	75-125			*M2*
Lead	54.7	0.54	0.16	mg/kg dry	54.1	6.00	90	75-125			
Molybdenum	48.7	1.1	0.11	mg/kg dry	54.1	1.27	88	75-125			
Nickel	50.3	1.1	0.49	mg/kg dry	54.1	3.47	87	75-125			
Selenium	54.8	1.1	0.16	mg/kg dry	54.1	15.2	73	75-125			*M2*
Silver	24.7	0.54	0.16	mg/kg dry	27.0	ND	91	75-125			
Thallium	69.3	0.54	0.11	mg/kg dry	54.1	18.3	94	75-125			
Vanadium	69.2	1.1	0.38	mg/kg dry	54.1	26.8	78	75-125			
Zinc	60.6	11	1.4	mg/kg dry	54.1	19.9	75	75-125			

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Attention: Penny Bassett

Project ID: BP Yerington soils

Report Number: IRJ1353

Sampled: 10/12/08
Received: 10/14/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J25009 Extracted: 10/25/08											
Matrix Spike Dup Analyzed: 10/25/2008-10/27/2008 (8J25009-MSD1)						**Source: IRJ1353-03**					
Arsenic	125	0.54	0.38	mg/kg dry	54.1	85.6	74	75-125	3	20	*M2*
Barium	121	0.54	0.22	mg/kg dry	54.1	95.1	47	75-125	2	20	*M2*
Beryllium	42.9	0.32	0.11	mg/kg dry	54.1	0.223	79	75-125	2	20	
Cadmium	46.1	0.54	0.065	mg/kg dry	54.1	ND	85	75-125	1	20	
Chromium	64.7	1.1	0.38	mg/kg dry	54.1	18.3	86	75-125	2	20	
Cobalt	50.0	0.54	0.086	mg/kg dry	54.1	2.61	88	75-125	0	20	
Copper	199	1.1	0.41	mg/kg dry	54.1	160	72	75-125	0	20	*M2*
Lead	54.6	0.54	0.16	mg/kg dry	54.1	6.00	90	75-125	0	20	
Molybdenum	48.9	1.1	0.11	mg/kg dry	54.1	1.27	88	75-125	1	20	
Nickel	50.0	1.1	0.49	mg/kg dry	54.1	3.47	86	75-125	1	20	
Selenium	55.8	1.1	0.16	mg/kg dry	54.1	15.2	75	75-125	2	20	
Silver	24.7	0.54	0.16	mg/kg dry	27.0	ND	91	75-125	0	20	
Thallium	69.5	0.54	0.11	mg/kg dry	54.1	18.3	95	75-125	0	20	
Vanadium	72.3	1.1	0.38	mg/kg dry	54.1	26.8	84	75-125	4	20	
Zinc	62.6	11	1.4	mg/kg dry	54.1	19.9	79	75-125	3	20	
Batch: 8J25010 Extracted: 10/25/08											
Blank Analyzed: 10/25/2008-10/27/2008 (8J25010-BLK1)											
Aluminum	ND	10	5.0	mg/kg wet							
Boron	ND	5.0	2.1	mg/kg wet							
Calcium	12.4	15	6.2	mg/kg wet							*J*
Iron	ND	5.0	1.5	mg/kg wet							
Magnesium	3.78	10	1.0	mg/kg wet							*J*
Manganese	ND	1.0	0.80	mg/kg wet							
Potassium	ND	50	19	mg/kg wet							
Silicon	ND	22	3.5	mg/kg as Silica we							
Sodium	ND	50	24	mg/kg wet							

TestAmerica Irvine

Patty Mata
Project Manager

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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 soils
Report Number: IRJ1353

Sampled: 10/12/08
Received: 10/14/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J25010 Extracted: 10/25/08											
LCS Analyzed: 10/25/2008-10/27/2008 (8J25010-BS1)											
Aluminum	52.6	10	5.0	mg/kg wet	50.0		105	80-120			
Boron	42.3	5.0	2.1	mg/kg wet	50.0		85	80-120			
Calcium	237	15	6.2	mg/kg wet	250		95	80-120			
Iron	45.8	5.0	1.5	mg/kg wet	50.0		92	80-120			
Magnesium	235	10	1.0	mg/kg wet	250		94	80-120			
Manganese	45.3	1.0	0.80	mg/kg wet	50.0		91	80-120			
Potassium	437	50	19	mg/kg wet	500		87	80-120			
Silicon	440	22	3.5	mg/kg as Silica wet	535		82	80-120			
Sodium	444	50	24	mg/kg wet	500		89	80-120			
Matrix Spike Analyzed: 10/25/2008-10/27/2008 (8J25010-MS1)						**Source: IRJ1353-03**					
Aluminum	7230	11	5.4	mg/kg dry	54.1	7580	-651	75-125			*MHA*
Boron	33.7	5.4	2.3	mg/kg dry	54.1	ND	62	75-125			*M2*
Calcium	1400	16	6.8	mg/kg dry	270	1310	34	75-125			*MHA*
Iron	16200	5.4	1.6	mg/kg dry	54.1	18300	-3990	75-125			*MHA*
Magnesium	2510	11	1.1	mg/kg dry	270	2400	40	75-125			*MHA*
Manganese	117	1.1	0.86	mg/kg dry	54.1	79.1	70	75-125			*M2*
Potassium	2760	54	21	mg/kg dry	541	2800	-8	75-125			*MHA*
Silicon	379	24	3.8	mg/kg as Silica dry	578	200	31	75-125			*M2*
Sodium	620	54	26	mg/kg dry	541	202	77	75-125			
Matrix Spike Dup Analyzed: 10/25/2008-10/27/2008 (8J25010-MSD1)						**Source: IRJ1353-03**					
Aluminum	8720	11	5.4	mg/kg dry	54.1	7580	2110	75-125	19	20	*MHA*
Boron	34.6	5.4	2.3	mg/kg dry	54.1	ND	64	75-125	3	20	*M2*
Calcium	1580	16	6.8	mg/kg dry	270	1310	101	75-125	12	20	*MHA*
Iron	18100	5.4	1.6	mg/kg dry	54.1	18300	-462	75-125	11	20	*MHA*
Magnesium	2740	11	1.1	mg/kg dry	270	2400	127	75-125	9	20	*MHA*
Manganese	122	1.1	0.86	mg/kg dry	54.1	79.1	80	75-125	4	20	*M2*
Potassium	3080	54	21	mg/kg dry	541	2800	51	75-125	11	20	*MHA*
Silicon	344	24	3.8	mg/kg as Silica dry	578	200	25	75-125	10	20	*M2*
Sodium	643	54	26	mg/kg dry	541	202	82	75-125	4	20	

TestAmerica Irvine

Patty Mata
Project Manager

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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 soils
Report Number: IRJ1353

Sampled: 10/12/08
Received: 10/14/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J27132 Extracted: 10/27/08											
Blank Analyzed: 10/28/2008 (8J27132-BLK1)											
Antimony	ND	1.0	0.10	mg/kg wet							
LCS Analyzed: 10/28/2008 (8J27132-BS1)											
Antimony	49.6	1.0	0.10	mg/kg wet	50.0		99	80-120			
Matrix Spike Analyzed: 10/28/2008 (8J27132-MS1)						**Source: IRJ1353-01**					
Antimony	40.8	1.2	0.12	mg/kg dry	62.5	0.555	64	75-125			*M2*
Matrix Spike Dup Analyzed: 10/28/2008 (8J27132-MSD1)						**Source: IRJ1353-01**					
Antimony	40.5	1.2	0.12	mg/kg dry	62.5	0.555	64	75-125	1	20	*M2*

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Patty Mata
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	Project ID: BP Yerington soils	
3264 Goni Rd, Ste 153		Sampled: 10/12/08
Carson City, NV 89706	Report Number: IRJ1353	Received: 10/14/08
Attention: Penny Bassett		

DATA QUALIFIERS AND DEFINITIONS

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.
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

TestAmerica Irvine

Patty Mata
Project Manager

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INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: ICP5
Calibration: I8J2806
Control Limt: +/- 10.00%
Sequence: IJ82809

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ82809-ICV1	Boron	2.00	2.06	103	mg/l	EPA 6010B	10/28/08 10:52
	Manganese	2.00	1.97	98	mg/l	EPA 6010B	10/28/08 10:52
IJ82809-CCV1	Boron	1.00	1.02	102	mg/l	EPA 6010B	10/28/08 12:28
	Manganese	1.00	0.994	99	mg/l	EPA 6010B	10/28/08 12:28
IJ82809-CCV2	Boron	1.00	0.970	97	mg/l	EPA 6010B	10/28/08 13:42
	Manganese	1.00	0.973	97	mg/l	EPA 6010B	10/28/08 13:42
IJ82809-CCV3	Boron	1.00	0.953	95	mg/l	EPA 6010B	10/28/08 14:56
	Manganese	1.00	0.969	97	mg/l	EPA 6010B	10/28/08 14:56
IJ82809-CCV4	Boron	1.00	0.990	99	mg/l	EPA 6010B	10/28/08 16:32
	Manganese	1.00	0.999	100	mg/l	EPA 6010B	10/28/08 16:32

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: ICP5
Calibration: I8J2807
Control Limt: +/- 10.00%
Sequence: IJ82810

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ82810-ICV1	Potassium	20.0	20.3	102	mg/l	EPA 6010B	10/25/08 16:54
	Sodium	20.0	19.8	99	mg/l	EPA 6010B	10/25/08 16:54
	Aluminum	2.00	2.13	107	mg/l	EPA 6010B	10/25/08 16:55
	Boron	2.00	1.99	99	mg/l	EPA 6010B	10/25/08 16:55
	Calcium	2.00	2.01	100	mg/l	EPA 6010B	10/25/08 16:55
	Iron	2.00	1.97	98	mg/l	EPA 6010B	10/25/08 16:55
	Magnesium	2.00	1.95	97	mg/l	EPA 6010B	10/25/08 16:55
	Manganese	2.00	1.95	98	mg/l	EPA 6010B	10/25/08 16:55
	Silicon	10.0	10.7	107	mg/l	EPA 6010B	10/25/08 16:55
IJ82810-CCV1	Potassium	10.0	10.2	102	mg/l	EPA 6010B	10/25/08 19:39
	Sodium	10.0	9.73	97	mg/l	EPA 6010B	10/25/08 19:39
Does not	Aluminum	1.00	1.15	115 *	mg/l	EPA 6010B	10/25/08 19:40
bracket	Boron	1.00	0.973	97	mg/l	EPA 6010B	10/25/08 19:40
	Calcium	10.0	9.64	96	mg/l	EPA 6010B	10/25/08 19:40
samples	Iron	1.00	1.00	100	mg/l	EPA 6010B	10/25/08 19:40
	Magnesium	1.00	1.08	108	mg/l	EPA 6010B	10/25/08 19:40
	Manganese	1.00	0.976	98	mg/l	EPA 6010B	10/25/08 19:40
	Silicon	5.00	4.75	95	mg/l	EPA 6010B	10/25/08 19:40
IJ82810-CCV2	Potassium	10.0	9.75	98	mg/l	EPA 6010B	10/25/08 19:56
	Sodium	10.0	9.49	95	mg/l	EPA 6010B	10/25/08 19:56
	Aluminum	1.00	1.10	110	mg/l	EPA 6010B	10/25/08 19:57
	Boron	1.00	0.946	95	mg/l	EPA 6010B	10/25/08 19:57
	Calcium	10.0	9.32	93	mg/l	EPA 6010B	10/25/08 19:57
	Iron	1.00	0.969	97	mg/l	EPA 6010B	10/25/08 19:57
	Magnesium	1.00	1.01	101	mg/l	EPA 6010B	10/25/08 19:57
	Manganese	1.00	0.952	95	mg/l	EPA 6010B	10/25/08 19:57
	Silicon	5.00	4.61	92	mg/l	EPA 6010B	10/25/08 19:57
IJ82810-CCV3	Potassium	10.0	9.70	97	mg/l	EPA 6010B	10/25/08 21:09
	Sodium	10.0	9.39	94	mg/l	EPA 6010B	10/25/08 21:09
	Aluminum	1.00	1.07	107	mg/l	EPA 6010B	10/25/08 21:10
	Boron	1.00	0.930	93	mg/l	EPA 6010B	10/25/08 21:10
	Calcium	10.0	9.51	95	mg/l	EPA 6010B	10/25/08 21:10
	Iron	1.00	0.958	96	mg/l	EPA 6010B	10/25/08 21:10
	Magnesium	1.00	1.01	101	mg/l	EPA 6010B	10/25/08 21:10
	Manganese	1.00	0.953	95	mg/l	EPA 6010B	10/25/08 21:10
	Silicon	5.00	4.67	93	mg/l	EPA 6010B	10/25/08 21:10
IJ82810-CCV4	Potassium	10.0	9.67	97	mg/l	EPA 6010B	10/25/08 22:20
	Sodium	10.0	9.49	95	mg/l	EPA 6010B	10/25/08 22:20
	Aluminum	1.00	1.09	109	mg/l	EPA 6010B	10/25/08 22:21
	Boron	1.00	0.938	94	mg/l	EPA 6010B	10/25/08 22:21
	Calcium	10.0	9.56	96	mg/l	EPA 6010B	10/25/08 22:21
	Iron	1.00	0.989	99	mg/l	EPA 6010B	10/25/08 22:21
	Magnesium	1.00	1.02	102	mg/l	EPA 6010B	10/25/08 22:21
	Manganese	1.00	0.962	96	mg/l	EPA 6010B	10/25/08 22:21
	Silicon	5.00	4.68	94	mg/l	EPA 6010B	10/25/08 22:21
IJ82810-CCV5	Potassium	10.0	9.65	96	mg/l	EPA 6010B	10/25/08 23:33

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: ICP5
Calibration: I8J2807
Control Limt: +/- 10.00%
Sequence: IJ82810

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ82810-CCV5	Sodium	10.0	9.51	95	mg/l	EPA 6010B	10/25/08 23:33
	Aluminum	1.00	1.07	107	mg/l	EPA 6010B	10/25/08 23:34
	Boron	1.00	0.930	93	mg/l	EPA 6010B	10/25/08 23:34
	Calcium	10.0	9.46	95	mg/l	EPA 6010B	10/25/08 23:34
	Iron	1.00	1.02	102	mg/l	EPA 6010B	10/25/08 23:34
	Magnesium	1.00	1.01	101	mg/l	EPA 6010B	10/25/08 23:34
	Manganese	1.00	0.947	95	mg/l	EPA 6010B	10/25/08 23:34
	Silicon	5.00	4.59	92	mg/l	EPA 6010B	10/25/08 23:34
IJ82810-CCV6	Potassium	10.0	9.45	94	mg/l	EPA 6010B	10/26/08 0:46
	Sodium	10.0	9.36	94	mg/l	EPA 6010B	10/26/08 0:46
	Calcium	10.0	9.33	93	mg/l	EPA 6010B	10/26/08 0:47
	Manganese	1.00	0.938	94	mg/l	EPA 6010B	10/26/08 0:47
	Aluminum	1.00	1.06	106	mg/l	EPA 6010B	10/26/08 0:48
	Boron	1.00	0.916	92	mg/l	EPA 6010B	10/26/08 0:48
	Iron	1.00	0.969	97	mg/l	EPA 6010B	10/26/08 0:48
	Magnesium	1.00	0.993	99	mg/l	EPA 6010B	10/26/08 0:48
	Silicon	5.00	4.58	92	mg/l	EPA 6010B	10/26/08 0:48
IJ82810-CCV7	Potassium	10.0	9.44	94	mg/l	EPA 6010B	10/26/08 1:59
	Sodium	10.0	9.39	94	mg/l	EPA 6010B	10/26/08 1:59
	Aluminum	1.00	1.06	106	mg/l	EPA 6010B	10/26/08 2:00
	Boron	1.00	0.918	92	mg/l	EPA 6010B	10/26/08 2:00
	Calcium	10.0	9.22	92	mg/l	EPA 6010B	10/26/08 2:00
	Iron	1.00	0.968	97	mg/l	EPA 6010B	10/26/08 2:00
	Magnesium	1.00	0.990	99	mg/l	EPA 6010B	10/26/08 2:00
	Manganese	1.00	0.931	93	mg/l	EPA 6010B	10/26/08 2:00
	Silicon	5.00	4.58	92	mg/l	EPA 6010B	10/26/08 2:00
IJ82810-CCV8	Potassium	10.0	9.51	95	mg/l	EPA 6010B	10/26/08 3:11
	Sodium	10.0	9.49	95	mg/l	EPA 6010B	10/26/08 3:11
	Aluminum	1.00	1.07	107	mg/l	EPA 6010B	10/26/08 3:12
	Boron	1.00	0.929	93	mg/l	EPA 6010B	10/26/08 3:12
	Calcium	10.0	9.40	94	mg/l	EPA 6010B	10/26/08 3:12
	Iron	1.00	0.973	97	mg/l	EPA 6010B	10/26/08 3:12
	Magnesium	1.00	1.02	102	mg/l	EPA 6010B	10/26/08 3:12
	Manganese	1.00	0.942	94	mg/l	EPA 6010B	10/26/08 3:12
	Silicon	5.00	4.75	95	mg/l	EPA 6010B	10/26/08 3:12
IJ82810-CCV9	Potassium	10.0	9.31	93	mg/l	EPA 6010B	10/26/08 4:27
	Sodium	10.0	9.36	94	mg/l	EPA 6010B	10/26/08 4:27
	Aluminum	1.00	1.05	105	mg/l	EPA 6010B	10/26/08 4:28
	Boron	1.00	0.916	92	mg/l	EPA 6010B	10/26/08 4:28
	Calcium	10.0	9.25	92	mg/l	EPA 6010B	10/26/08 4:28
	Iron	1.00	0.972	97	mg/l	EPA 6010B	10/26/08 4:28
	Magnesium	1.00	0.990	99	mg/l	EPA 6010B	10/26/08 4:28
	Manganese	1.00	0.930	93	mg/l	EPA 6010B	10/26/08 4:28
	Silicon	5.00	4.53	91	mg/l	EPA 6010B	10/26/08 4:28
IJ82810-CCVA	Potassium	10.0	7.75	78 *	mg/l	EPA 6010B	10/26/08 5:21
	Sodium	10.0	7.93	79 *	mg/l	EPA 6010B	10/26/08 5:21

does not bracket samples

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: ICP5
Calibration: I8J2807
Control Limt: +/- 10.00%
Sequence: IJ82810

Lab Sample ID	Analyte	True	Found	%R		Units	Method	Analyzed
IJ82810-CCVA	Aluminum	1.00	0.484	48	*	mg/l	EPA 6010B	10/26/08 5:22
	Boron	1.00	0.462	46	*	mg/l	EPA 6010B	10/26/08 5:22
	Calcium	10.0	4.66	47	*	mg/l	EPA 6010B	10/26/08 5:22
	Iron	1.00	0.484	48	*	mg/l	EPA 6010B	10/26/08 5:22
	Magnesium	1.00	0.477	48	*	mg/l	EPA 6010B	10/26/08 5:22
	Manganese	1.00	0.464	46	*	mg/l	EPA 6010B	10/26/08 5:22
	Silicon	5.00	2.34	47	*	mg/l	EPA 6010B	10/26/08 5:22

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: ICP5
Calibration: I8J2807
Control Limt: +/- 10.00%
Sequence: IJ82811

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ82811-ICV1	Calcium	2.00	-0.0134	*	mg/l	EPA 6010B	10/27/08 17:12
	Iron	2.00	0.00189	0.09 *	mg/l	EPA 6010B	10/27/08 17:12
Not	Magnesium	2.00	-0.0467	*	mg/l	EPA 6010B	10/27/08 17:12
used	Manganese	2.00	-0.000287	*	mg/l	EPA 6010B	10/27/08 17:12
	Silicon	10.0	0.00200	0.02 *	mg/l	EPA 6010B	10/27/08 17:12
	Boron	2.00	-0.0111	*	mg/l	EPA 6010B	10/27/08 17:13
IJ82811-ICV2	Boron	2.00	1.87	93	mg/l	EPA 6010B	10/27/08 17:19
	Calcium	2.00	1.85	92	mg/l	EPA 6010B	10/27/08 17:19
	Iron	2.00	1.88	94	mg/l	EPA 6010B	10/27/08 17:19
	Magnesium	2.00	1.87	93	mg/l	EPA 6010B	10/27/08 17:19
	Manganese	2.00	1.83	92	mg/l	EPA 6010B	10/27/08 17:19
	Silicon	10.0	9.60	96	mg/l	EPA 6010B	10/27/08 17:19
IJ82811-CCV1	Boron	1.00	1.03	103	mg/l	EPA 6010B	10/27/08 19:02
	Calcium	10.0	10.1	101	mg/l	EPA 6010B	10/27/08 19:02
	Iron	1.00	1.05	105	mg/l	EPA 6010B	10/27/08 19:02
	Magnesium	1.00	1.06	106	mg/l	EPA 6010B	10/27/08 19:02
	Manganese	1.00	1.02	102	mg/l	EPA 6010B	10/27/08 19:02
	Silicon	5.00	5.09	102	mg/l	EPA 6010B	10/27/08 19:02
IJ82811-CCV2	Boron	1.00	0.983	98	mg/l	EPA 6010B	10/27/08 20:29
	Calcium	10.0	9.98	100	mg/l	EPA 6010B	10/27/08 20:29
	Iron	1.00	1.00	100	mg/l	EPA 6010B	10/27/08 20:29
	Magnesium	1.00	1.01	101	mg/l	EPA 6010B	10/27/08 20:29
	Manganese	1.00	1.00	100	mg/l	EPA 6010B	10/27/08 20:29
	Silicon	5.00	4.90	98	mg/l	EPA 6010B	10/27/08 20:29
IJ82811-CCV3	Boron	1.00	1.01	101	mg/l	EPA 6010B	10/27/08 21:50
	Calcium	10.0	10.2	102	mg/l	EPA 6010B	10/27/08 21:50
	Iron	1.00	1.03	103	mg/l	EPA 6010B	10/27/08 21:50
	Magnesium	1.00	1.06	106	mg/l	EPA 6010B	10/27/08 21:50
	Manganese	1.00	1.02	102	mg/l	EPA 6010B	10/27/08 21:50
	Silicon	5.00	5.04	101	mg/l	EPA 6010B	10/27/08 21:50
IJ82811-CCV4	Boron	1.00	1.01	101	mg/l	EPA 6010B	10/27/08 23:05
	Calcium	10.0	10.3	103	mg/l	EPA 6010B	10/27/08 23:05
	Iron	1.00	1.03	103	mg/l	EPA 6010B	10/27/08 23:05
	Magnesium	1.00	1.06	106	mg/l	EPA 6010B	10/27/08 23:05
	Manganese	1.00	1.03	103	mg/l	EPA 6010B	10/27/08 23:05
	Silicon	5.00	5.04	101	mg/l	EPA 6010B	10/27/08 23:05
IJ82811-CCV5	Boron	1.00	0.990	99	mg/l	EPA 6010B	10/28/08 0:26
	Calcium	10.0	10.0	100	mg/l	EPA 6010B	10/28/08 0:26
	Iron	1.00	1.04	104	mg/l	EPA 6010B	10/28/08 0:26
	Magnesium	1.00	1.03	103	mg/l	EPA 6010B	10/28/08 0:26
	Manganese	1.00	1.00	100	mg/l	EPA 6010B	10/28/08 0:26
	Silicon	5.00	4.90	98	mg/l	EPA 6010B	10/28/08 0:26
IJ82811-CCV6	Boron	1.00	1.03	103	mg/l	EPA 6010B	10/28/08 1:47
	Calcium	10.0	10.6	106	mg/l	EPA 6010B	10/28/08 1:47
	Iron	1.00	1.09	109	mg/l	EPA 6010B	10/28/08 1:47
	Magnesium	1.00	1.07	107	mg/l	EPA 6010B	10/28/08 1:47

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: ICP5
Calibration: I8J2807
Control Limt: +/- 10.00%
Sequence: IJ82811

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ82811-CCV6	Manganese	1.00	1.06	106	mg/l	EPA 6010B	10/28/08 1:47
	Silicon	5.00	5.16	103	mg/l	EPA 6010B	10/28/08 1:47
IJ82811-CCV7	Boron	1.00	1.04	104	mg/l	EPA 6010B	10/28/08 2:23
	Calcium	10.0	10.6	106	mg/l	EPA 6010B	10/28/08 2:23
does not	Iron	1.00	1.18	118 *	mg/l	EPA 6010B	10/28/08 2:23
bracket	Magnesium	1.00	1.09	109	mg/l	EPA 6010B	10/28/08 2:23
sample	Manganese	1.00	1.06	106	mg/l	EPA 6010B	10/28/08 2:23
	Silicon	5.00	5.16	103	mg/l	EPA 6010B	10/28/08 2:23

* Values outside of QC limits

CRDL STANDARD

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: ICP5
Calibration: I8J2806
Sequence: IJ82809
Injection Date: 10/28/08 11:03

Lab Sample ID	Analyte	RL	True	Found	%R	Units	QC Limts
IJ82809-CRL1	Boron	0.2	0.100	0.0927	93	mg/l	50 - 150
	Manganese	0.04	0.0100	0.0101	101	mg/l	50 - 150
IJ82809-CRL2	Boron		0.0200	0.0223	112	mg/l	50 - 150
	Manganese		0.0200	0.0212	106	mg/l	50 - 150
IJ82809-CRL3	Boron		0.100	0.0915	91	mg/l	50 - 150
	Manganese		0.0100	0.00997	100	mg/l	50 - 150
IJ82809-CRL4	Boron		0.0200	0.0212	106	mg/l	50 - 150
	Manganese		0.0200	0.0206	103	mg/l	50 - 150
IJ82809-CRL5	Boron		0.100	0.0983	98	mg/l	50 - 150
	Manganese		0.0100	0.0105	105	mg/l	50 - 150
IJ82809-CRL6	Boron		0.0200	0.0244	122	mg/l	50 - 150
	Manganese		0.0200	0.0208	104	mg/l	50 - 150

* Values outside of QC limits

CRDL STANDARD

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: ICP5
Calibration: I8J2807
Sequence: IJ82810
Injection Date: 10/25/08 17:07

Lab Sample ID	Analyte	RL	True	Found	%R	Units	QC Limts
IJ82810-CRL1	Potassium -	2	1.00	1.01	101	mg/l	50 - 150
	Sodium -	2	1.00	0.979	98	mg/l	50 - 150
	Aluminum -	0.4	0.100	0.0818	82	mg/l	50 - 150
	Boron	0.2	0.100 -	0.0933	93	mg/l	50 - 150
	Calcium -	0.6	0.110	0.226	205 *	mg/l	50 - 150
	Iron	0.2	0.0800 -	0.0777	97	mg/l	50 - 150
	Magnesium	0.4	= 0.0400	0.0458	115	mg/l	50 - 150
	Manganese -	0.04	0.0100	-0.000804	*	mg/l	50 - 150
	Silicon -	0.41	0.0500	0.0448	90	mg/l	50 - 150
IJ82810-CRL2	Potassium		1.00	0.110	11 *	mg/l	50 - 150
	Sodium		1.00	0.191	19 *	mg/l	50 - 150
	Aluminum		0.100	-0.00920	*	mg/l	50 - 150
	Calcium		0.110	0.201	183 *	mg/l	50 - 150
	Iron	> 5x	0.0800	0.0204	25 *	mg/l	50 - 150
	Magnesium		0.0400	0.0286	71	mg/l	50 - 150
	Manganese		0.0100	0.00918	92	mg/l	50 - 150
	Silicon		0.0500	0.0906	181 *	mg/l	50 - 150
	Boron	J/UJ	0.100	0.0194	19 *	mg/l	50 - 150
IJ82810-CRL3	Potassium		1.00	0.846	85	mg/l	50 - 150
	Sodium		1.00	0.939	94	mg/l	50 - 150
	Aluminum		0.100	0.118	118	mg/l	50 - 150
	Boron		0.100	0.0893	89	mg/l	50 - 150
	Calcium		0.110	0.211	191 *	mg/l	50 - 150
	Iron		0.0800	0.0765	96	mg/l	50 - 150
	Magnesium		0.0400	0.0373	93	mg/l	50 - 150
	Manganese		0.0100	-0.00178	*	mg/l	50 - 150
	Silicon		0.0500	0.0453	91	mg/l	50 - 150
IJ82810-CRL4	Potassium		0.200	-0.00770	*	mg/l	50 - 150

Spike amts < ~~RL~~ MDL, not used to qualify data for all but B, Fe, Mg

CRDL STANDARD

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: ICP5
Calibration: I8J2807
Sequence: IJ82810
Injection Date: 10/26/08 05:39

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IJ82810-CRL4	Sodium	0.200	0.172	86	mg/l	50 - 150
	Aluminum	0.0200	0.00239	12 *	mg/l	50 - 150
	Boron	0.0200	0.0183	92	mg/l	50 - 150
	Calcium	0.200	0.190	95	mg/l	50 - 150
	Iron	0.0200	0.0204	102	mg/l	50 - 150
	Magnesium	0.0200	0.00993	50	mg/l	50 - 150
	Manganese	0.0200	0.00781	39 *	mg/l	50 - 150
	Silicon	0.100	0.0891	89	mg/l	50 - 150

* Values outside of QC limits

CRDL STANDARD

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: ICP5
Calibration: I8J2807
Sequence: IJ82811
Injection Date: 10/27/08 17:31

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IJ82811-CRL1	Boron	0.100	0.0938	94	mg/l	50 - 150
	Calcium	0.110	0.233	212 *	mg/l	50 - 150
	Iron	0.0800	0.0788	99	mg/l	50 - 150
	Magnesium	0.0400	0.0419	105	mg/l	50 - 150
	Manganese	0.0100	0.0104	104	mg/l	50 - 150
	Silicon	0.0500	0.0457	91	mg/l	50 - 150
IJ82811-CRL2	Boron J	0.100	0.0201	20 *	mg/l	50 - 150
	Calcium	0.110	0.206	188 *	mg/l	50 - 150
	Iron >5x	0.0800	0.0204	26 *	mg/l	50 - 150
	Magnesium "	0.0400	0.0168	42 *	mg/l	50 - 150
	Manganese	0.0100	0.0207	207 *	mg/l	50 - 150
	Silicon	0.0500	0.0949	190 *	mg/l	50 - 150
IJ82811-CRL3	Boron	0.100	0.0992	99	mg/l	50 - 150
	Calcium	0.110	0.249	226 *	mg/l	50 - 150
	Iron	0.0800	0.0832	104	mg/l	50 - 150
	Magnesium	0.0400	0.0506	127	mg/l	50 - 150
	Manganese	0.0100	0.0110	110	mg/l	50 - 150
	Silicon	0.0500	0.0432	86	mg/l	50 - 150
IJ82811-CRL4	Boron	0.0200	0.0232	116	mg/l	50 - 150
	Calcium	0.200	0.228	114	mg/l	50 - 150
	Iron	0.0200	0.0219	110	mg/l	50 - 150
	Magnesium	0.0200	0.0266	133	mg/l	50 - 150
	Manganese	0.0200	0.0226	113	mg/l	50 - 150
	Silicon	0.100	0.0999	100	mg/l	50 - 150

* Values outside of QC limits

BLANKS
EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Instrument ID: ICP5
Project: BP Yerington, NV, Soils
Sequence: IJ82809
Calibration: 18J2806

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
IJ82809-ICB1	Boron	0.00513	0.20	mg/l		EPA 6010B	10/28/08 10:5
	Manganese	0.000281	0.040	mg/l		EPA 6010B	10/28/08 10:5
IJ82809-CCB1	Boron	0.0363	0.20	mg/l		EPA 6010B	10/28/08 12:3
	Manganese	0.0000325	0.040	mg/l		EPA 6010B	10/28/08 12:3
IJ82809-CCB2	Boron	0.0188	0.20	mg/l		EPA 6010B	10/28/08 13:4
	Manganese	0.0000589	0.040	mg/l		EPA 6010B	10/28/08 13:4
IJ82809-CCB3	Boron	0.00882	0.20	mg/l		EPA 6010B	10/28/08 15:0
	Manganese	-0.0000239	0.040	mg/l		EPA 6010B	10/28/08 15:0
IJ82809-CCB4	Boron	0.00506	0.20	mg/l		EPA 6010B	10/28/08 16:3
	Manganese	0.0000396	0.040	mg/l		EPA 6010B	10/28/08 16:3

no impact

BLANKS
EPA 6010B

Laboratory: TestAmerica Irvine SDG:

Client: Brown and Caldwell - NV

Instrument ID: ICP5 Project: BP Yerington, NV, Soils

Sequence: IJ82810 Calibration: I8J2807

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
IJ82810-CCB1	Potassium	-0.177	2.0	mg/l		EPA 6010B	10/25/08 19:4:
	Sodium	-0.0111	2.0	mg/l		EPA 6010B	10/25/08 19:4:
	Aluminum	0.00325	0.40	mg/l		EPA 6010B	10/25/08 19:4
	Calcium	0.00234	0.60	mg/l		EPA 6010B	10/25/08 19:4
	Iron	0.000755	0.20	mg/l		EPA 6010B	10/25/08 19:4
	Magnesium	-0.0000334	0.40	mg/l		EPA 6010B	10/25/08 19:4
	Manganese	-0.0116	0.040	mg/l		EPA 6010B	10/25/08 19:4
	Silicon	0.0200	0.41	mg/l		EPA 6010B	10/25/08 19:4
	Boron	0.00193	0.20	mg/l		EPA 6010B	10/25/08 19:4
IJ82810-CCB2	Potassium	-0.0678	2.0	mg/l		EPA 6010B	10/25/08 20:0:
	Sodium	-0.0110	2.0	mg/l		EPA 6010B	10/25/08 20:0:
	Aluminum	0.00302	0.40	mg/l		EPA 6010B	10/25/08 20:0:
	Calcium	0.00148	0.60	mg/l		EPA 6010B	10/25/08 20:0:
	Iron	0.000489	0.20	mg/l		EPA 6010B	10/25/08 20:0:
	Magnesium	-0.00198	0.40	mg/l		EPA 6010B	10/25/08 20:0:
	Manganese	-0.0117	0.040	mg/l		EPA 6010B	10/25/08 20:0:
	Silicon	0.00297	0.41	mg/l		EPA 6010B	10/25/08 20:0:
	Boron	0.00107	0.20	mg/l		EPA 6010B	10/25/08 20:0
IJ82810-CCB3	Potassium	-0.0651	2.0	mg/l		EPA 6010B	10/25/08 21:1:
	Sodium	0.0156	2.0	mg/l		EPA 6010B	10/25/08 21:1:
	Aluminum	-0.0101	0.40	mg/l		EPA 6010B	10/25/08 21:1
	Calcium	0.00417	0.60	mg/l		EPA 6010B	10/25/08 21:1
	Iron	0.000499	0.20	mg/l		EPA 6010B	10/25/08 21:1
	Magnesium	0.000914	0.40	mg/l		EPA 6010B	10/25/08 21:1
	Manganese	-0.0117	0.040	mg/l		EPA 6010B	10/25/08 21:1
	Silicon	0.0333	0.41	mg/l		EPA 6010B	10/25/08 21:1
	Boron	0.00280	0.20	mg/l		EPA 6010B	10/25/08 21:1
8J25010-BLK1	Potassium	-9.16	50	mg/kg		EPA 6010B	10/25/08 22:0:
	Sodium	4.81	50	mg/kg		EPA 6010B	10/25/08 22:0:
	Aluminum	1.12	10	mg/kg		EPA 6010B	10/25/08 22:0:
	Calcium	12.4	15	mg/kg		EPA 6010B	10/25/08 22:0.
	Iron	1.03	5.0	mg/kg		EPA 6010B	10/25/08 22:0:
	Magnesium	3.78	10	mg/kg		EPA 6010B	10/25/08 22:0.
	Silicon	-0.493	22	mg/kg as Silica		EPA 6010B	10/25/08 22:0:
	Boron	-0.120	5.0	mg/kg		EPA 6010B	10/25/08 22:0
IJ82810-CCB4	Potassium	-0.118	2.0	mg/l		EPA 6010B	10/25/08 22:2
	Sodium	0.00243	2.0	mg/l		EPA 6010B	10/25/08 22:2
	Aluminum	-0.00869	0.40	mg/l		EPA 6010B	10/25/08 22:2
	Calcium	0.00163	0.60	mg/l		EPA 6010B	10/25/08 22:2
	Iron	0.000608	0.20	mg/l		EPA 6010B	10/25/08 22:2
	Magnesium	0.00288	0.40	mg/l		EPA 6010B	10/25/08 22:2
	Manganese	-0.0117	0.040	mg/l		EPA 6010B	10/25/08 22:2
	Silicon	0.0135	0.41	mg/l		EPA 6010B	10/25/08 22:2
	Boron	0.00210	0.20	mg/l		EPA 6010B	10/25/08 22:2:
IJ82810-CCB5	Potassium	-0.133	2.0	mg/l		EPA 6010B	10/25/08 23:3

no impact

BLANKS
EPA 6010B

Laboratory: TestAmerica Irvine SDG:

Client: Brown and Caldwell - NV

Instrument ID: ICP5 Project: BP Yerington, NV, Soils

Sequence: IJ82810 Calibration: I8J2807

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
IJ82810-CCB5	Sodium	0.0263	2.0	mg/l		EPA 6010B	10/25/08 23:3
	Aluminum	-0.0225	0.40	mg/l		EPA 6010B	10/25/08 23:4
	Calcium	0.000319	0.60	mg/l		EPA 6010B	10/25/08 23:4
	Iron	0.000905	0.20	mg/l		EPA 6010B	10/25/08 23:4
	Magnesium	-0.00328	0.40	mg/l		EPA 6010B	10/25/08 23:4
	Manganese	-0.0117	0.040	mg/l		EPA 6010B	10/25/08 23:4
	Silicon	0.00901	0.41	mg/l		EPA 6010B	10/25/08 23:4
	Boron	0.00124	0.20	mg/l		EPA 6010B	10/25/08 23:4
IJ82810-CCB6	Potassium	-0.207	2.0	mg/l		EPA 6010B	10/26/08 0:52
	Sodium	-0.0153	2.0	mg/l		EPA 6010B	10/26/08 0:52
	Aluminum	-0.0271	0.40	mg/l		EPA 6010B	10/26/08 0:53
	Calcium	0.00120	0.60	mg/l		EPA 6010B	10/26/08 0:53
	Iron	0.00150	0.20	mg/l		EPA 6010B	10/26/08 0:53
	Magnesium	0.0155	0.40	mg/l		EPA 6010B	10/26/08 0:53
	Manganese	-0.0116	0.040	mg/l		EPA 6010B	10/26/08 0:53
	Silicon	0.00487	0.41	mg/l		EPA 6010B	10/26/08 0:53
	Boron	0.000989	0.20	mg/l		EPA 6010B	10/26/08 0:54
IJ82810-CCB7	Potassium	-0.168	2.0	mg/l		EPA 6010B	10/26/08 2:05
	Sodium	-0.0121	2.0	mg/l		EPA 6010B	10/26/08 2:05
	Aluminum	-0.0163	0.40	mg/l		EPA 6010B	10/26/08 2:06
	Calcium	0.0000823	0.60	mg/l		EPA 6010B	10/26/08 2:06
	Iron	0.00131	0.20	mg/l		EPA 6010B	10/26/08 2:06
	Magnesium	-0.00991	0.40	mg/l		EPA 6010B	10/26/08 2:06
	Manganese	-0.0118	0.040	mg/l		EPA 6010B	10/26/08 2:06
	Silicon	0.00418	0.41	mg/l		EPA 6010B	10/26/08 2:06
	Boron	0.000931	0.20	mg/l		EPA 6010B	10/26/08 2:07
IJ82810-CCB8	Potassium	-0.224	2.0	mg/l		EPA 6010B	10/26/08 3:17
	Sodium	-0.00449	2.0	mg/l		EPA 6010B	10/26/08 3:17
	Aluminum	-0.0278	0.40	mg/l		EPA 6010B	10/26/08 3:18
	Calcium	0.00116	0.60	mg/l		EPA 6010B	10/26/08 3:18
	Iron	0.000708	0.20	mg/l		EPA 6010B	10/26/08 3:18
	Magnesium	-0.00624	0.40	mg/l		EPA 6010B	10/26/08 3:18
	Manganese	-0.0117	0.040	mg/l		EPA 6010B	10/26/08 3:18
	Silicon	0.0706	0.41	mg/l		EPA 6010B	10/26/08 3:18
	Boron	0.00271	0.20	mg/l		EPA 6010B	10/26/08 3:19
IJ82810-CCB9	Potassium	-0.140	2.0	mg/l		EPA 6010B	10/26/08 4:33
	Sodium	-0.0299	2.0	mg/l		EPA 6010B	10/26/08 4:33
	Aluminum	-0.0199	0.40	mg/l		EPA 6010B	10/26/08 4:34
	Calcium	0.000752	0.60	mg/l		EPA 6010B	10/26/08 4:34
	Iron	0.00230	0.20	mg/l		EPA 6010B	10/26/08 4:34
	Magnesium	-0.0105	0.40	mg/l		EPA 6010B	10/26/08 4:34
	Manganese	-0.0116	0.040	mg/l		EPA 6010B	10/26/08 4:34
	Silicon	0.0358	0.41	mg/l		EPA 6010B	10/26/08 4:34
	Boron	0.00152	0.20	mg/l		EPA 6010B	10/26/08 4:35
IJ82810-CCBA	Potassium	-0.154	2.0	mg/l		EPA 6010B	10/26/08 5:27

no impact

BLANKS
EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Instrument ID: ICP5
Project: BP Yerington, NV, Soils
Sequence: IJ82810
Calibration: I8J2807

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
IJ82810-CCBA	Sodium	-0.00693	2.0	mg/l		EPA 6010B	10/26/08 5:27
	Aluminum	-0.0270	0.40	mg/l		EPA 6010B	10/26/08 5:28
	Calcium	-0.000710	0.60	mg/l		EPA 6010B	10/26/08 5:28
	Iron	0.00121	0.20	mg/l		EPA 6010B	10/26/08 5:28
	Magnesium	-0.00105	0.40	mg/l		EPA 6010B	10/26/08 5:28
	Manganese	-0.0118	0.040	mg/l		EPA 6010B	10/26/08 5:28
	Silicon	0.00778	0.41	mg/l		EPA 6010B	10/26/08 5:28
	Boron	-0.000463	0.20	mg/l		EPA 6010B	10/26/08 5:29
8J25010-BLK1	Manganese	0.0510	1.0	mg/kg		EPA 6010B	10/27/08 17:5

no impact

BLANKS
EPA 6010B

Laboratory: TestAmerica Irvine SDG:

Client: Brown and Caldwell - NV

Instrument ID: ICP5 Project: BP Yerington, NV, Soils

Sequence: IJ82811 Calibration: I8J2807

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
IJ82811-ICB1	Boron	0.00513	0.20	mg/l		EPA 6010B	10/27/08 17:2
	Calcium	0.00103	0.60	mg/l		EPA 6010B	10/27/08 17:2
	Iron	0.000731	0.20	mg/l		EPA 6010B	10/27/08 17:2
	Magnesium	-0.00438	0.40	mg/l		EPA 6010B	10/27/08 17:2
	Manganese	0.000285	0.040	mg/l		EPA 6010B	10/27/08 17:2
	Silicon	0.00504	0.41	mg/l		EPA 6010B	10/27/08 17:2
IJ82811-ICB2	Boron	0.00576	0.20	mg/l		EPA 6010B	10/27/08 17:4
	Calcium	0.00305	0.60	mg/l		EPA 6010B	10/27/08 17:4
	Iron	0.000525	0.20	mg/l		EPA 6010B	10/27/08 17:4
	Magnesium	0.00223	0.40	mg/l		EPA 6010B	10/27/08 17:4
	Manganese	0.000597	0.040	mg/l		EPA 6010B	10/27/08 17:4
	Silicon	0.0162	0.41	mg/l		EPA 6010B	10/27/08 17:4
IJ82811-CCB1	Boron	0.00361	0.20	mg/l		EPA 6010B	10/27/08 19:0
	Calcium	0.000829	0.60	mg/l		EPA 6010B	10/27/08 19:0
	Iron	0.0000825	0.20	mg/l		EPA 6010B	10/27/08 19:0
	Magnesium	-0.000433	0.40	mg/l		EPA 6010B	10/27/08 19:0
	Manganese	0.0000263	0.040	mg/l		EPA 6010B	10/27/08 19:0
	Silicon	0.00343	0.41	mg/l		EPA 6010B	10/27/08 19:0
IJ82811-CCB2	Boron	0.00311	0.20	mg/l		EPA 6010B	10/27/08 20:3
	Calcium	0.00180	0.60	mg/l		EPA 6010B	10/27/08 20:3
	Iron	-0.0000679	0.20	mg/l		EPA 6010B	10/27/08 20:3
	Magnesium	-0.00496	0.40	mg/l		EPA 6010B	10/27/08 20:3
	Manganese	0.0000460	0.040	mg/l		EPA 6010B	10/27/08 20:3
	Silicon	0.00121	0.41	mg/l		EPA 6010B	10/27/08 20:3
IJ82811-CCB3	Boron	0.00747	0.20	mg/l		EPA 6010B	10/27/08 21:5
	Calcium	0.00345	0.60	mg/l		EPA 6010B	10/27/08 21:5
	Iron	-0.000758	0.20	mg/l		EPA 6010B	10/27/08 21:5
	Magnesium	0.00478	0.40	mg/l		EPA 6010B	10/27/08 21:5
	Manganese	0.0000710	0.040	mg/l		EPA 6010B	10/27/08 21:5
	Silicon	0.00803	0.41	mg/l		EPA 6010B	10/27/08 21:5
IJ82811-CCB4	Boron	0.00434	0.20	mg/l		EPA 6010B	10/27/08 23:1
	Calcium	0.00148	0.60	mg/l		EPA 6010B	10/27/08 23:1
	Iron	0.0000505	0.20	mg/l		EPA 6010B	10/27/08 23:1
	Magnesium	-0.00148	0.40	mg/l		EPA 6010B	10/27/08 23:1
	Manganese	0.000105	0.040	mg/l		EPA 6010B	10/27/08 23:1
	Silicon	0.000743	0.41	mg/l		EPA 6010B	10/27/08 23:1
IJ82811-CCB5	Boron	0.00595	0.20	mg/l		EPA 6010B	10/28/08 0:33
	Calcium	0.00332	0.60	mg/l		EPA 6010B	10/28/08 0:33
	Iron	0.000665	0.20	mg/l		EPA 6010B	10/28/08 0:33
	Magnesium	0.00678	0.40	mg/l		EPA 6010B	10/28/08 0:33
	Manganese	0.000103	0.040	mg/l		EPA 6010B	10/28/08 0:33
	Silicon	0.0000680	0.41	mg/l		EPA 6010B	10/28/08 0:33
IJ82811-CCB6	Boron	0.00639	0.20	mg/l		EPA 6010B	10/28/08 1:54
	Calcium	0.00416	0.60	mg/l		EPA 6010B	10/28/08 1:54
	Iron	0.00158	0.20	mg/l		EPA 6010B	10/28/08 1:54

no impact

BLANKS
EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Instrument ID: ICP5
Project: BP Yerington, NV, Soils
Sequence: IJ82811
Calibration: I8J2807

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
IJ82811-CCB6	Magnesium	0.00760	0.40	mg/l		EPA 6010B	10/28/08 1:54
	Manganese	0.0000510	0.040	mg/l		EPA 6010B	10/28/08 1:54
	Silicon	0.00546	0.41	mg/l		EPA 6010B	10/28/08 1:54
IJ82811-CCB7	Boron	0.00692	0.20	mg/l		EPA 6010B	10/28/08 2:29
	Calcium	0.00621	0.60	mg/l		EPA 6010B	10/28/08 2:29
	Iron	0.00457	0.20	mg/l		EPA 6010B	10/28/08 2:29
	Magnesium	0.00589	0.40	mg/l		EPA 6010B	10/28/08 2:29
	Manganese	0.000215	0.040	mg/l		EPA 6010B	10/28/08 2:29
	Silicon	0.00261	0.41	mg/l		EPA 6010B	10/28/08 2:29

no impact

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6010B

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: ICP5

Calibration: I8J2806

80-120

Sequence: IJ82809

Check Nbr: 1

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Boron	NA	NA	-0.0528	NA		NA
Boron	NA	0.500		NA	0.465 ✓	93 ✓
Manganese	NA	NA	-0.00613	NA		NA
Manganese	NA	0.500		NA	0.506 ✓	101 ✓

no impact

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6010B

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: ICP5

Calibration: I8J2806

80-120

Sequence: IJ82809

Check Nbr: 2

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Boron	NA	NA	-0.0276	NA		NA
Boron	NA	0.500		NA	0.479	96
Manganese	NA	NA	-0.00571	NA		NA
Manganese	NA	0.500		NA	0.499	100

* Values outside of QC limits

no impact

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6010B

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: ICP5

Calibration: I8J2807

80-120

Sequence: IJ82810

Check Nbr: 1

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Aluminum	NA	500		NA	530	106
Aluminum	500	NA	535	107		NA
Boron	NA	NA	-0.0427	NA		NA
Boron	NA	0.500		NA	0.449	90
Calcium	NA	500		NA	479	96
Calcium	500	NA	476	95		NA
Iron	NA	200		NA	179	89
Iron	200	NA	179	90		NA
Magnesium	NA	500		NA	492	98
Magnesium	500	NA	500	100		NA
Manganese	NA	NA	-0.0134	NA		NA
Manganese	NA	0.500		NA	0.486	97
Potassium	NA	NA	-0.000351	NA		NA
Potassium	NA	10.0		NA	11.7	117
Silicon	NA	NA	0.00996	NA		NA
Silicon	NA	2.50		NA	2.37	95
Sodium	NA	NA	-0.0679	NA		NA
Sodium	NA	10.0		NA	10.8	108

no impact

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6010B

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: ICP5

Calibration: I8J2807

80-120

Sequence: IJ82811

Check Nbr: 1

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Boron	NA	NA	-0.0280	NA		NA
Boron	NA	0.500		NA	0.447	89
Calcium	NA	500		NA	0.00	NA
Calcium	500	NA	454	91		NA
Iron	NA	200		NA	179	89
Iron	200	NA	172	86		NA
Magnesium	NA	500		NA	496	99
Magnesium	500	NA	482	96		NA
Manganese	NA	NA	-0.00486	NA		NA
Manganese	NA	0.500		NA	0.484	97
Silicon	NA	NA	-0.0206	NA		NA
Silicon	NA	2.50		NA	2.32	93

no impact

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6010B

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

80-120

Instrument ID: ICP5

Calibration: I8J2807

Sequence: IJ82811

Check Nbr: 2

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Boron	NA	NA	-0.0212	NA		NA
Boron	NA	0.500		NA	0.439	88
Calcium	NA	500		NA	463	93
Calcium	500	NA	472	94		NA
Iron	NA	200		NA	176	88
Iron	200	NA	179	89		NA
Magnesium	NA	500		NA	490	98
Magnesium	500	NA	499	100		NA
Manganese	NA	NA	-0.00491	NA		NA
Manganese	NA	0.500		NA	0.471	94
Silicon	NA	NA	-0.0217	NA		NA
Silicon	NA	2.50		NA	2.27	91

no impact

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6010B

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

80-120

Instrument ID: ICP5

Calibration: I8J2807

Sequence: IJ82811

Check Nbr: 3

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Boron	NA	NA	-0.0128	NA		NA
Boron	NA	0.500		NA	0.517	103
Calcium	NA	500		NA	499	100
Calcium	500	NA	508	102		NA
Iron	NA	200		NA	187	94
Iron	200	NA	190	95		NA
Magnesium	NA	500		NA	518	104
Magnesium	500	NA	527	105		NA
Manganese	NA	NA	-0.00627	NA		NA
Manganese	NA	0.500		NA	0.521	104
Silicon	NA	NA	-0.00935	NA		NA
Silicon	NA	2.50		NA	2.52	101

* Values outside of QC limits

no impact

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Sequence: IJ82809
Instrument: ICP5
Calibration: I8J2806

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
OU4-FEP-13A-SC	IRJ1353-03	081024-1-239	10/25/08 22:15
OU4-FEP-13A-SC	IRJ1353-03	081027-2-019	10/27/08 18:07
Cal Standard	IJ82809-CAL1	081028-1-001	10/28/08 10:02
Cal Standard	IJ82809-CAL2	081028-1-003	10/28/08 10:12
Cal Standard	IJ82809-CAL2	081028-1-003	10/28/08 10:13
Cal Standard	IJ82809-CAL3	081028-1-004	10/28/08 10:18
Cal Standard	IJ82809-CAL4	081028-1-005	10/28/08 10:24
Interference Check A	IJ82809-IFA1	081028-1-006	10/28/08 10:31
Interference Check B	IJ82809-IFB1	081028-1-007	10/28/08 10:40
Initial Cal Check	IJ82809-ICV1	081028-1-009	10/28/08 10:52
Initial Cal Blank	IJ82809-ICB1	081028-1-010	10/28/08 10:57
MRL Check	IJ82809-CRL1	081028-1-011	10/28/08 11:03
MRL Check	IJ82809-CRL2	081028-1-012	10/28/08 11:09
MRL Check	IJ82809-CRL3	081028-1-013	10/28/08 11:16
MRL Check	IJ82809-CRL4	081028-1-014	10/28/08 11:20
Calibration Check	IJ82809-CCV1	081028-1-024	10/28/08 12:28
Calibration Blank	IJ82809-CCB1	081028-1-025	10/28/08 12:34
Calibration Check	IJ82809-CCV2	081028-1-036	10/28/08 13:42
Calibration Blank	IJ82809-CCB2	081028-1-037	10/28/08 13:48
Calibration Check	IJ82809-CCV3	081028-1-048	10/28/08 14:56
Calibration Blank	IJ82809-CCB3	081028-1-049	10/28/08 15:02
OU4-UEP-10B-SC	IRJ1353-02	081028-1-050	10/28/08 15:12
OU4-FEP-13B-SC	IRJ1353-04	081028-1-051	10/28/08 15:18
MRL Check	IJ82809-CRL5	081028-1-056	10/28/08 16:02
MRL Check	IJ82809-CRL6	081028-1-057	10/28/08 16:08
Interference Check A	IJ82809-IFA2	081028-1-058	10/28/08 16:14
Interference Check B	IJ82809-IFB2	081028-1-059	10/28/08 16:21
Calibration Check	IJ82809-CCV4	081028-1-060	10/28/08 16:32
Calibration Blank	IJ82809-CCB4	081028-1-061	10/28/08 16:38

ok.

B + Mn

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory:	TestAmerica Irvine	SDG:	
Client:	Brown and Caldwell - NV	Project:	BP Yerington, NV, Soils
Sequence:	IJ82810	Instrument:	ICP5
		Calibration:	I8J2807

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	IJ82810-CAL1	081024-1-191	10/25/08 15:53
Cal Standard	IJ82810-CAL1	081024-1-191	10/25/08 15:54
Cal Standard	IJ82810-CAL1	081024-1-191	10/25/08 15:55
Cal Standard	IJ82810-CAL2	081024-1-192	10/25/08 15:59
Cal Standard	IJ82810-CAL2	081024-1-192	10/25/08 16:00
Cal Standard	IJ82810-CAL3	081024-1-193	10/25/08 16:04
Cal Standard	IJ82810-CAL3	081024-1-193	10/25/08 16:05
Cal Standard	IJ82810-CAL4	081024-1-194	10/25/08 16:10
Cal Standard	IJ82810-CAL4	081024-1-194	10/25/08 16:11
Interference Check A	IJ82810-IFA1	081024-1-195	10/25/08 16:16
Interference Check A	IJ82810-IFA1	081024-1-195	10/25/08 16:17
Interference Check A	IJ82810-IFA1	081024-1-195	10/25/08 16:18
Interference Check B	IJ82810-IFB1	081024-1-196	10/25/08 16:22
Interference Check B	IJ82810-IFB1	081024-1-196	10/25/08 16:23
Interference Check A	IJ82810-IFA2	081024-1-198	10/25/08 16:42
Interference Check A	IJ82810-IFA2	081024-1-198	10/25/08 16:43
Interference Check A	IJ82810-IFA2	081024-1-198	10/25/08 16:44
Initial Cal Check	IJ82810-ICV1	081024-1-200	10/25/08 16:54
Initial Cal Check	IJ82810-ICV1	081024-1-200	10/25/08 16:55
MRL Check	IJ82810-CRL1	081024-1-202	10/25/08 17:07
MRL Check	IJ82810-CRL1	081024-1-202	10/25/08 17:08
MRL Check	IJ82810-CRL2	081024-1-203	10/25/08 17:13 out
MRL Check	IJ82810-CRL2	081024-1-203	10/25/08 17:14
MRL Check	IJ82810-CRL2	081024-1-203	10/25/08 17:15
Calibration Check	IJ82810-CCV1	081024-1-214	10/25/08 19:39 Al ↑
Calibration Check	IJ82810-CCV1	081024-1-214	10/25/08 19:40
Calibration Blank	IJ82810-CCB1	081024-1-215	10/25/08 19:45
Calibration Blank	IJ82810-CCB1	081024-1-215	10/25/08 19:46
Calibration Blank	IJ82810-CCB1	081024-1-215	10/25/08 19:47
Calibration Check	IJ82810-CCV2	081024-1-216	10/25/08 19:56
Calibration Check	IJ82810-CCV2	081024-1-216	10/25/08 19:57

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory:	TestAmerica Irvine	SDG:	
Client:	Brown and Caldwell - NV	Project:	BP Yerington, NV, Soils
Sequence:	IJ82810	Instrument:	ICP5
		Calibration:	I8J2807

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Blank	IJ82810-CCB2	081024-1-217	10/25/08 20:02
Calibration Blank	IJ82810-CCB2	081024-1-217	10/25/08 20:03
Calibration Blank	IJ82810-CCB2	081024-1-217	10/25/08 20:04
Calibration Check	IJ82810-CCV3	081024-1-228	10/25/08 21:09
Calibration Check	IJ82810-CCV3	081024-1-228	10/25/08 21:10
Calibration Blank	IJ82810-CCB3	081024-1-229	10/25/08 21:15
Calibration Blank	IJ82810-CCB3	081024-1-229	10/25/08 21:16
Blank	8J25010-BLK1	081024-1-237	10/25/08 22:02
Blank	8J25010-BLK1	081024-1-237	10/25/08 22:03
Blank	8J25010-BLK1	081024-1-237	10/25/08 22:04
LCS	8J25010-BS1	081024-1-238	10/25/08 22:08
LCS	8J25010-BS1	081024-1-238	10/25/08 22:09
OU4-FEP-13A-SC	IRJ1353-03	081024-1-239	10/25/08 22:14
OU4-FEP-13A-SC	IRJ1353-03	081024-1-239	10/25/08 22:15
Calibration Check	IJ82810-CCV4	081024-1-240	10/25/08 22:20
Calibration Check	IJ82810-CCV4	081024-1-240	10/25/08 22:21
Calibration Blank	IJ82810-CCB4	081024-1-241	10/25/08 22:26
Calibration Blank	IJ82810-CCB4	081024-1-241	10/25/08 22:27
Calibration Blank	IJ82810-CCB4	081024-1-241	10/25/08 22:28
OU4-FEP-13A-SC	8J25010-MS1	081024-1-242	10/25/08 22:32
OU4-FEP-13A-SC	8J25010-MS1	081024-1-242	10/25/08 22:33
OU4-FEP-13A-SC	8J25010-MSD1	081024-1-243	10/25/08 22:38
OU4-FEP-13A-SC	8J25010-MSD1	081024-1-243	10/25/08 22:39
OU4-UEP-10A-SC	IRJ1353-01	081024-1-244	10/25/08 22:46
OU4-UEP-10B-SC	IRJ1353-02	081024-1-245	10/25/08 22:50
OU4-UEP-10B-SC	IRJ1353-02	081024-1-245	10/25/08 22:52
OU4-FEP-13B-SC	IRJ1353-04	081024-1-246	10/25/08 22:57
OU4-FEP-13B-SC	IRJ1353-04	081024-1-246	10/25/08 22:58
Calibration Check	IJ82810-CCV5	081024-1-252	10/25/08 23:33
Calibration Check	IJ82810-CCV5	081024-1-252	10/25/08 23:34
Calibration Blank	IJ82810-CCB5	081024-1-253	10/25/08 23:39

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory:	TestAmerica Irvine	SDG:	
Client:	Brown and Caldwell - NV	Project:	BP Yerington, NV, Soils
Sequence:	IJ82810	Instrument:	ICP5
		Calibration:	I8J2807

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Blank	IJ82810-CCB5	081024-1-253	10/25/08 23:40
Calibration Blank	IJ82810-CCB5	081024-1-253	10/25/08 23:41
Calibration Check	IJ82810-CCV6	081024-1-264	10/26/08 00:46
Calibration Check	IJ82810-CCV6	081024-1-264	10/26/08 00:47
Calibration Check	IJ82810-CCV6	081024-1-264	10/26/08 00:48
Calibration Blank	IJ82810-CCB6	081024-1-265	10/26/08 00:52
Calibration Blank	IJ82810-CCB6	081024-1-265	10/26/08 00:53
Calibration Blank	IJ82810-CCB6	081024-1-265	10/26/08 00:54
Calibration Check	IJ82810-CCV7	081024-1-276	10/26/08 01:59
Calibration Check	IJ82810-CCV7	081024-1-276	10/26/08 02:00
Calibration Blank	IJ82810-CCB7	081024-1-277	10/26/08 02:05
Calibration Blank	IJ82810-CCB7	081024-1-277	10/26/08 02:06
Calibration Blank	IJ82810-CCB7	081024-1-277	10/26/08 02:07
Calibration Check	IJ82810-CCV8	081024-1-288	10/26/08 03:11
Calibration Check	IJ82810-CCV8	081024-1-288	10/26/08 03:12
Calibration Blank	IJ82810-CCB8	081024-1-289	10/26/08 03:17
Calibration Blank	IJ82810-CCB8	081024-1-289	10/26/08 03:18
Calibration Blank	IJ82810-CCB8	081024-1-289	10/26/08 03:19
Calibration Check	IJ82810-CCV9	081024-1-300	10/26/08 04:27
Calibration Check	IJ82810-CCV9	081024-1-300	10/26/08 04:28
Calibration Blank	IJ82810-CCB9	081024-1-301	10/26/08 04:33
Calibration Blank	IJ82810-CCB9	081024-1-301	10/26/08 04:34
Calibration Blank	IJ82810-CCB9	081024-1-301	10/26/08 04:35
Calibration Check	IJ82810-CCVA	081024-1-309	10/26/08 05:21
Calibration Check	IJ82810-CCVA	081024-1-309	10/26/08 05:22
Calibration Blank	IJ82810-CCBA	081024-1-310	10/26/08 05:27
Calibration Blank	IJ82810-CCBA	081024-1-310	10/26/08 05:28
Calibration Blank	IJ82810-CCBA	081024-1-310	10/26/08 05:29
MRL Check	IJ82810-CRL3	081024-1-311	10/26/08 05:33
MRL Check	IJ82810-CRL3	081024-1-311	10/26/08 05:34
MRL Check	IJ82810-CRL4	081024-1-312	10/26/08 05:39

All ↓

ok.

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Sequence: IJ82811
Instrument: ICP5
Calibration: I8J2807

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	IJ82811-CAL1	081027-2-001	10/27/08 16:04
Cal Standard	IJ82811-CAL2	081027-2-002	10/27/08 16:09
Cal Standard	IJ82811-CAL2	081027-2-002	10/27/08 16:10
Cal Standard	IJ82811-CAL3	081027-2-003	10/27/08 16:15
Cal Standard	IJ82811-CAL4	081027-2-004	10/27/08 16:21
Interference Check A	IJ82811-IFA1	081027-2-005	10/27/08 16:27
Interference Check A	IJ82811-IFA1	081027-2-005	10/27/08 16:28
Interference Check A	IJ82811-IFA2	081027-2-006	10/27/08 16:44
Interference Check A	IJ82811-IFA2	081027-2-006	10/27/08 16:45
Interference Check B	IJ82811-IFB1	081027-2-007	10/27/08 16:50
Interference Check B	IJ82811-IFB1	081027-2-007	10/27/08 16:51
Interference Check B	IJ82811-IFB2	081027-2-008	10/27/08 16:55
Interference Check B	IJ82811-IFB2	081027-2-008	10/27/08 16:56
Initial Cal Check	IJ82811-ICV1	081027-2-010	10/27/08 17:12
Initial Cal Check	IJ82811-ICV1	081027-2-010	10/27/08 17:13
Initial Cal Check	IJ82811-ICV2	081027-2-011	10/27/08 17:19
Initial Cal Blank	IJ82811-ICB1	081027-2-012	10/27/08 17:25
MRL Check	IJ82811-CRL1	081027-2-013	10/27/08 17:31
MRL Check	IJ82811-CRL2	081027-2-014	10/27/08 17:37 — out
Initial Cal Blank	IJ82811-ICB2	081027-2-016	10/27/08 17:49
OU4-UEP-10A-SC – 2x	IRJ1353-01	081027-2-022	10/27/08 18:26 B
Calibration Check	IJ82811-CCV1	081027-2-027	10/27/08 19:02
Calibration Blank	IJ82811-CCB1	081027-2-028	10/27/08 19:09
Calibration Check	IJ82811-CCV2	081027-2-039	10/27/08 20:29
Calibration Blank	IJ82811-CCB2	081027-2-040	10/27/08 20:36
Calibration Check	IJ82811-CCV3	081027-2-051	10/27/08 21:50
Calibration Blank	IJ82811-CCB3	081027-2-052	10/27/08 21:57
Calibration Check	IJ82811-CCV4	081027-2-062	10/27/08 23:05
Calibration Blank	IJ82811-CCB4	081027-2-063	10/27/08 23:12
Calibration Check	IJ82811-CCV5	081027-2-074	10/28/08 00:26
Calibration Blank	IJ82811-CCB5	081027-2-075	10/28/08 00:33

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory:	TestAmerica Irvine	SDG:	
Client:	Brown and Caldwell - NV	Project:	BP Yerington, NV, Soils
Sequence:	IJ82811	Instrument:	ICP5
		Calibration:	I8J2807

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	IJ82811-CCV6	081027-2-086	10/28/08 01:47
Calibration Blank	IJ82811-CCB6	081027-2-087	10/28/08 01:54
Calibration Check	IJ82811-CCV7	081027-2-092	10/28/08 02:23
Calibration Blank	IJ82811-CCB7	081027-2-093	10/28/08 02:29
MRL Check	IJ82811-CRL3	081027-2-094	10/28/08 02:34
MRL Check	IJ82811-CRL4	081027-2-095	10/28/08 02:40
Interference Check A	IJ82811-IFA3	081027-2-096	10/28/08 02:47
Interference Check B	IJ82811-IFB3	081027-2-097	10/28/08 02:53

Fe ↑

ok.

PREPARATION BENCH SHEET

8J25010

TestAmerica Irvine

Printed: 10/28/2008 7:59:49AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	ul Surrogate	Initials		Extraction Comments
8J25010-BLK1		QC	10/25/08 06:58	2	50							
8J25010-BS1		QC	10/25/08 06:58	2	50		8090397	1000				
8J25010-MS1		QC	10/25/08 06:58	2	50	IRJ1353-03	8090397	1000				
8J25010-MSD1		QC	10/25/08 06:58	2	50	IRJ1353-03	8090397	1000				
IRJ1353-01	A	Iron-6010B	10/25/08 06:58	2	50							BP Sequence. J flag
IRJ1353-01	A	Silica-6010B	10/25/08 06:58	2	50							BP Sequence. J flag
IRJ1353-01	A	Potassium-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-01	A	Magnesium-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-01	A	Sodium-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-01	A	Calcium-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-01	A	Boron-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-01	A	Aluminum-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-01	A	Manganese-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-02	A	Manganese-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-02	A	Sodium-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-02	A	Silica-6010B	10/25/08 06:58	2	50							BP Sequence. J flag
IRJ1353-02	A	Potassium-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-02	A	Magnesium-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-02	A	Iron-6010B	10/25/08 06:58	2	50							BP Sequence. J flag
IRJ1353-02	A	Calcium-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.

N/A
Spiking Witnessed By Date

TT/LL/VRS 11/11/08
Preparation Reviewed By Date

TT/LL/VRS 11/11/08
Extracts Received By Date

PREPARATION BENCH SHEET

8J25010

TestAmerica Irvine

Printed: 10/28/2008 7:59:49AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	ul Surrogate	Initials		Extraction Comments
IRJ1353-02	A	Aluminum-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-02	A	Boron-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-03	A	Manganese-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-03	A	Aluminum-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-03	A	Sodium-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-03	A	Silica-6010B	10/25/08 06:58	2	50							BP Sequence. J flag
IRJ1353-03	A	Potassium-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-03	A	Iron-6010B	10/25/08 06:58	2	50							BP Sequence. J flag
IRJ1353-03	A	Boron-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-03	A	Calcium-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-03	A	Magnesium-6010B	10/25/08 06:58	2	50							BP Sequence. J flag.
IRJ1353-04	A	Manganese-6010B	10/25/08 06:58	1.99	50							BP Sequence. J flag.
IRJ1353-04	A	Sodium-6010B	10/25/08 06:58	1.99	50							BP Sequence. J flag.
IRJ1353-04	A	Potassium-6010B	10/25/08 06:58	1.99	50							BP Sequence. J flag.
IRJ1353-04	A	Magnesium-6010B	10/25/08 06:58	1.99	50							BP Sequence. J flag.
IRJ1353-04	A	Iron-6010B	10/25/08 06:58	1.99	50							BP Sequence. J flag
IRJ1353-04	A	Calcium-6010B	10/25/08 06:58	1.99	50							BP Sequence. J flag.
IRJ1353-04	A	Boron-6010B	10/25/08 06:58	1.99	50							BP Sequence. J flag.
IRJ1353-04	A	Aluminum-6010B	10/25/08 06:58	1.99	50							BP Sequence. J flag.
IRJ1353-04	A	Silica-6010B	10/25/08 06:58	1.99	50							BP Sequence. J flag

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

MDL STUDY

METALS BY ICP - EPA 6010B / 200.7

Analyt. Method: EPA 6010B / 200.7 — Instruments: **WinLabICP5**
Prep Method: EPA 3005A / 200.2 — Standard Conc: **Na,K: 10x - Si: 5x - Ag: 0.5x**
Matrix: **Water** (50ml-->50ml)
Units: **mg/L**

Reviewed: T.Vu (Jan/10&23/08)

#	Analyte	Spike(mg/l)		MDL Runs - (mg/L)								Calc Data (mg/L)			final	current LIMS (mg/L)			Validation Criteria				Comm't	Symbol	Spike	Calib. Std (mg/L)	
		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			Std 1	Std 2
1	Aluminum	0.05	0.05	0.0477	0.0522	0.0519	0.0519	0.049	0.0513	0.0488	**0.06**	1:14	0.00	0.010	0.010	0.040	0.050	0.050	OK	-75%	5	103%	2.13	Al308.215	0.05		0.100
2	Antimony	0.01	0.01	0.012	0.010	0.007	0.008	0.007	0.005	0.007	0.005	0.008	0.002	0.007	0.007	0.007	0.010	0.010	OK	no ch'g	1.4	76%		Sb 206.833	0.01	0.005	0.100
3	Arsenic	0.01	0.01	0.009	0.010	0.008	0.010	0.010	0.008	0.009	0.007	0.009	0.001	0.003	0.003	0.0065	0.010	0.010	OK	-52%	3	89%		As188.979	0.005	0.005	0.100
4	Barium	0.01	0.005	0.0051	0.0051	0.0051	0.0051	0.005	0.0049	0.005	0.005	0.01	0.0001	0.000	0.000	0.006	0.010	0.010	OK	-95%	17	100%		Ba 233.527	0.01	0.005	0.100
5	Beryllium	0.004	0.005	0.0048	0.0049	0.0049	0.0048	0.0047	0.0046	0.0046	0.005	0.00	0.0002	0.001	0.001	0.0009	0.004	0.004	OK	-44%	10	95%		Be 313.107	0.002	0.005	0.100
6	Boron	0.05	0.005	0.0177	0.0161	0.0166	0.0155	0.0152	0.0169	0.0167	0.017	0.02	0.0008	0.002	0.002	0.017	0.050	0.050	OK	-86%	2	329%		B 249.773	0.05		0.100
7	Cadmium	0.005	0.005	0.0052	0.0052	0.0053	0.0053	0.005	0.005	0.005	0.005	0.01	0.0001	0.000	0.000	0.002	0.005	0.005	OK	-80%	13	102%		Cd 214.438	0.005	0.005	0.100
8	Calcium	0.1	0.1	0.1214	0.117	0.1186	0.1178	0.1325	0.1292	0.1131	0.14	0.12	0.01	0.030	0.03	0.050	0.10	0.10	OK	-40%	3	124%		Ca 315.887	0.1	0.05	1.00
9	Chromium	0.005	0.005	0.0059	0.0059	0.0059	0.0059	0.0053	0.0048	0.0052	0.005	0.01	0.0004	0.001	0.001	0.002	0.005	0.005	OK	-35%	4	110%		Cr 205.552	0.005	0.005	0.100
10	Cobalt	0.01	0.01	0.011	0.010	0.010	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	-70%	17	103%		Co 228.616	0.01	0.005	0.100
11	Copper	0.01	0.01	0.011	0.010	0.011	0.009	0.012	0.011	0.011	0.011	0.011	0.001	0.003	0.003	0.003	0.010	0.010	OK	-17%	4	107%		Cu324.754	0.01	0.005	0.100
12	Iron	0.04	0.005	0.0066	0.005	0.006	0.0088	0.007	0.0069	0.0085	0.007	0.01	0.0012	0.004	0.004	0.015	0.04	0.02	OK	-75%	1	139%		Fe238.204	0.02		0.100
13	Lead	0.005	0.005	0.004	0.005	0.004	0.005	0.003	0.005	0.005	0.005	0.00	0.0008	0.003	0.003	0.003	0.005	0.005	OK	-17%	2	92%		Pb220.353	0.005	0.005	0.100
14	Lithium	0.05	0.05	0.0661	0.0641	0.0677	0.0631	0.0501	0.0509	0.049	0.05	0.06	0.0084	0.025	0.03	0.030	0.050	0.050	OK	-16%	2	115%		Li 610.362	0.05	0.005	0.100
15	Magnesium	0.02	0.02	0.0213	0.0243	0.0241	0.0272	0.0207	0.018	0.0133	0.0201	0.02	0.0043	0.013	0.013	0.012	0.020	0.020	OK	7%	2	106%		Mg279.079	0.02		0.100
16	Manganese	0.02	0.005	0.0055	0.0055	0.0055	0.0056	0.0054	0.005	0.0052	0.005	0.01	0.0003	0.001	0.001	0.007	0.020	0.020	OK	-89%	6	107%		Mn257.610	0.02	0.005	0.100
17	Molybdenum	0.02	0.005	0.0053	0.0054	0.0053	0.0064	0.004	0.0044	0.0039	0.004	0.00	0.0009	0.003	0.003	0.002	0.020	0.020	OK	35%	2	97%		Mo202.030	0.02	0.005	0.100
18	Nickel	0.01	0.005	0.0051	0.0053	0.005	0.0052	0.0049	0.0053	0.0049	0.005	0.01	0.0002	0.001	0.001	0.002	0.010	0.010	OK	-65%	7	101%		Ni231.604	0.01	0.005	0.100
19	Phosphorus	0.5	0.1	0.0889	0.093	0.0951	0.0845	0.089	0.0898	0.0869	0.09	0.09	0.0033	0.010	0.01	0.02	0.50	0.50	OK	-51%	10	90%		P 214.914	0.2		0.100
20	Potassium	0.5	0.2	0.1801	0.2287	0.1879	0.1629	0.0952	0.1129	0.0864	0.04	0.14	0.0632	0.189	0.189	0.37	0.50	0.50	OK	-49%	1	68%		K 766.490	0.5		1.00
21	Selenium	0.01	0.01	0.011	0.009	0.011	0.011	0.019	0.014	0.015	0.012	0.013	0.003	0.009	0.009	0.008	0.010	0.010	OK	10%	1.1	127%		Se 196.026	0.01	0.005	0.100
22	Silicon	0.05	0.05	0.046	0.047	0.047	0.046	0.048	0.049	0.044	0.045	0.05	0.00	0.005	0.005	0.013	0.050	0.050	OK	-60%	10	93%		Si251.611	0.05	0.025	0.50
23	Silver	0.01	0.0025	0.0021	0.0018	0.001	0.0018	0.0017	0.0027	0.0022	0.00	0.00	0.0005	0.002	0.002	0.006	0.010	0.007	OK	-75%	2	78%		Ag328.068	0.01	0.0025	0.05
24	Sodium	0.5	0.5	0.6693	0.598	0.6291	0.5962	0.6126	0.5704	0.5705	0.552	0.60	0.0376	0.113	0.11	0.19	0.50	0.50	OK	-41%	4	120%		Na 589.592	0.5		1.00
25	Strontium	0.02	0.005	0.0047	0.0047	0.0049	0.0047	0.0052	0.0051	0.0052	0.005	0.00	0.0002	0.001	0.001	0.005	0.020	0.020	OK	-86%	7	99%		Sr 421.552rac	0.02	0.005	0.100
26	Thallium	0.01	0.01	0.009	0.007	0.010	0.010	0.009	0.006	0.007	0.007	0.008	0.002	0.005	0.005	0.007	0.010	0.010	OK	-33%	2	81%		Tl 190.800	0.01	0.005	0.100
27	Tin	0.1	0.1	0.1004	0.0986	0.0945	0.0936	0.0901	0.0968	0.0892	0.0901	0.09	0.0042	0.013	0.013	0.012	0.10	0.10	OK	5%	8	94%		Sn189.933	0.05		0.100
28	Titanium	0.005	0.005	0.0054	0.0056	0.0054	0.0054	0.0051	0.0049	0.0053	0.005	0.01	0.0002	0.001	0.001	0.002	0.005	0.005	OK	-65%	7	105%		Ti 334.941	0.005	0.005	0.100
29	Vanadium	0.01	0.01	0.010	0.010	0.010	0.010	0.009	0.008	0.008	0.008	0.009	0.001	0.003	0.003	0.003	0.010	0.010	OK	no ch'g	3	90%		V 292.402	0.01	0.005	0.100
30	Zinc	0.02	0.01	0.011	0.011	0.011	0.011	0.010	0.011	0.010	0.010	0.011	0.001	0.002	0.002	0.006	0.020	0.020	OK	-72%	6	109%		Zn 213.856	0.02	0.005	0.100
31	Zirconium	0.2	0.005													0.012	0.20	0.20						Zr [344]	0.1		

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: Elan2
Calibration: I8J2501
Control Limt: +/- 10.00%
Sequence: IJ82504

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ82504-ICV1	Arsenic	25.0	25.1	100	ug/l	EPA 6020	10/25/08 11:53
	Barium	25.0	25.5	102	ug/l	EPA 6020	10/25/08 11:53
	Beryllium	25.0	24.9	100	ug/l	EPA 6020	10/25/08 11:53
	Cadmium	25.0	26.0	104	ug/l	EPA 6020	10/25/08 11:53
	Chromium	25.0	26.7	107	ug/l	EPA 6020	10/25/08 11:53
	Cobalt	25.0	26.6	107	ug/l	EPA 6020	10/25/08 11:53
	Copper	25.0	25.8	103	ug/l	EPA 6020	10/25/08 11:53
	Lead	25.0	26.4	105	ug/l	EPA 6020	10/25/08 11:53
	Molybdenum	25.0	26.2	105	ug/l	EPA 6020	10/25/08 11:53
	Nickel	25.0	25.9	104	ug/l	EPA 6020	10/25/08 11:53
	Selenium	25.0	25.5	102	ug/l	EPA 6020	10/25/08 11:53
	Silver	25.0	26.3	105	ug/l	EPA 6020	10/25/08 11:53
	Thallium	25.0	26.5	106	ug/l	EPA 6020	10/25/08 11:53
	Vanadium	25.0	26.0	104	ug/l	EPA 6020	10/25/08 11:53
	Zinc	25.0	25.9	103	ug/l	EPA 6020	10/25/08 11:53
IJ82504-CCV2	Arsenic	50.0	51.4	103	ug/l	EPA 6020	10/25/08 13:16
	Barium	50.0	49.8	100	ug/l	EPA 6020	10/25/08 13:16
	Beryllium	50.0	57.2	114 *	ug/l	EPA 6020	10/25/08 13:16
	Cadmium	50.0	51.4	103	ug/l	EPA 6020	10/25/08 13:16
	Chromium	50.0	54.9	110	ug/l	EPA 6020	10/25/08 13:16
	Cobalt	50.0	55.0	110	ug/l	EPA 6020	10/25/08 13:16
	Copper	50.0	52.9	106	ug/l	EPA 6020	10/25/08 13:16
	Lead	50.0	55.7	111 *	ug/l	EPA 6020	10/25/08 13:16
	Molybdenum	50.0	51.1	102	ug/l	EPA 6020	10/25/08 13:16
	Nickel	50.0	53.6	107	ug/l	EPA 6020	10/25/08 13:16
	Selenium	50.0	51.9	104	ug/l	EPA 6020	10/25/08 13:16
	Silver	50.0	52.9	106	ug/l	EPA 6020	10/25/08 13:16
	Thallium	50.0	54.3	109	ug/l	EPA 6020	10/25/08 13:16
	Vanadium	50.0	54.4	109	ug/l	EPA 6020	10/25/08 13:16
	Zinc	50.0	52.4	105	ug/l	EPA 6020	10/25/08 13:16
IJ82504-CCV3	Arsenic	50.0	51.8	104	ug/l	EPA 6020	10/25/08 14:02
	Barium	50.0	50.0	100	ug/l	EPA 6020	10/25/08 14:02
	Beryllium	50.0	58.5	117 *	ug/l	EPA 6020	10/25/08 14:02
	Cadmium	50.0	51.3	103	ug/l	EPA 6020	10/25/08 14:02
	Chromium	50.0	54.9	110	ug/l	EPA 6020	10/25/08 14:02
	Cobalt	50.0	55.1	110	ug/l	EPA 6020	10/25/08 14:02
	Copper	50.0	52.7	105	ug/l	EPA 6020	10/25/08 14:02
	Lead	50.0	55.5	111 *	ug/l	EPA 6020	10/25/08 14:02
	Molybdenum	50.0	51.1	102	ug/l	EPA 6020	10/25/08 14:02
	Nickel	50.0	53.9	108	ug/l	EPA 6020	10/25/08 14:02
	Selenium	50.0	51.5	103	ug/l	EPA 6020	10/25/08 14:02
	Silver	50.0	53.0	106	ug/l	EPA 6020	10/25/08 14:02
	Thallium	50.0	54.1	108	ug/l	EPA 6020	10/25/08 14:02
	Vanadium	50.0	54.2	108	ug/l	EPA 6020	10/25/08 14:02
	Zinc	50.0	52.2	104	ug/l	EPA 6020	10/25/08 14:02
IJ82504-CCV4	Arsenic	50.0	51.3	103	ug/l	EPA 6020	10/25/08 15:12

project samples analyzed between ICV1 and CCV2
Be + Pb not reported from this sequence

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: Elan2
Calibration: I8J2501
Control Limt: +/- 10.00%
Sequence: IJ82504

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ82504-CCV4	Barium	50.0	50.9	102	ug/l	EPA 6020	10/25/08 15:12
	Beryllium	50.0	65.0	130 *	ug/l	EPA 6020	10/25/08 15:12
	Cadmium	50.0	52.2	104	ug/l	EPA 6020	10/25/08 15:12
	Chromium	50.0	56.1	112 *	ug/l	EPA 6020	10/25/08 15:12
	Cobalt	50.0	55.7	111 *	ug/l	EPA 6020	10/25/08 15:12
	Copper	50.0	52.3	105	ug/l	EPA 6020	10/25/08 15:12
	Lead	50.0	56.9	114 *	ug/l	EPA 6020	10/25/08 15:12
	Molybdenum	50.0	51.5	103	ug/l	EPA 6020	10/25/08 15:12
	Nickel	50.0	54.4	109	ug/l	EPA 6020	10/25/08 15:12
	Selenium	50.0	52.3	105	ug/l	EPA 6020	10/25/08 15:12
	Silver	50.0	53.4	107	ug/l	EPA 6020	10/25/08 15:12
	Thallium	50.0	55.5	111 *	ug/l	EPA 6020	10/25/08 15:12
	Vanadium	50.0	55.4	111 *	ug/l	EPA 6020	10/25/08 15:12
	Zinc	50.0	51.9	104	ug/l	EPA 6020	10/25/08 15:12
IJ82504-CCV5	Arsenic	50.0	52.4	105	ug/l	EPA 6020	10/25/08 15:32
	Barium	50.0	51.8	104	ug/l	EPA 6020	10/25/08 15:32
	Beryllium	50.0	63.3	127 *	ug/l	EPA 6020	10/25/08 15:32
	Cadmium	50.0	52.7	105	ug/l	EPA 6020	10/25/08 15:32
	Chromium	50.0	56.8	114 *	ug/l	EPA 6020	10/25/08 15:32
	Cobalt	50.0	56.1	112 *	ug/l	EPA 6020	10/25/08 15:32
	Copper	50.0	52.3	105	ug/l	EPA 6020	10/25/08 15:32
	Lead	50.0	57.8	116 *	ug/l	EPA 6020	10/25/08 15:32
	Molybdenum	50.0	52.3	105	ug/l	EPA 6020	10/25/08 15:32
	Nickel	50.0	54.2	108	ug/l	EPA 6020	10/25/08 15:32
	Selenium	50.0	52.2	104	ug/l	EPA 6020	10/25/08 15:32
	Silver	50.0	54.4	109	ug/l	EPA 6020	10/25/08 15:32
	Thallium	50.0	56.3	113 *	ug/l	EPA 6020	10/25/08 15:32
	Vanadium	50.0	56.2	112 *	ug/l	EPA 6020	10/25/08 15:32
	Zinc	50.0	51.4	103	ug/l	EPA 6020	10/25/08 15:32

* Values outside of QC limits

no impact

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: ELAN
Calibration: I8J2801
Control Limt: +/- 10.00%
Sequence: IJ82804

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ82804-ICV1	Beryllium	25.0	24.8	99	ug/l	EPA 6020	10/27/08 19:12
	Lead	25.0	26.0	104	ug/l	EPA 6020	10/27/08 19:12
IJ82804-CCV1	Beryllium	50.0	49.8	100	ug/l	EPA 6020	10/27/08 20:57
	Lead	50.0	50.8	102	ug/l	EPA 6020	10/27/08 20:57
IJ82804-CCV2	Beryllium	50.0	54.4	109	ug/l	EPA 6020	10/27/08 21:43
	Lead	50.0	49.9	100	ug/l	EPA 6020	10/27/08 21:43
IJ82804-CCV3	Beryllium	50.0	44.9	90	ug/l	EPA 6020	10/27/08 22:51
	Lead	50.0	52.1	104	ug/l	EPA 6020	10/27/08 22:51
IJ82804-CCV4	Beryllium	50.0	45.8	92	ug/l	EPA 6020	10/27/08 23:38
	Lead	50.0	52.2	104	ug/l	EPA 6020	10/27/08 23:38

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: Elan2
Calibration: I8J2802
Control Limt: +/- 10.00%
Sequence: IJ82805

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ82805-ICV1	Antimony	25.0	23.7	95	ug/l	EPA 6020	10/28/08 9:32
IJ82805-CCV1	Antimony	50.0	51.0	102	ug/l	EPA 6020	10/28/08 10:40
IJ82805-CCV2	Antimony	50.0	50.2	100	ug/l	EPA 6020	10/28/08 11:23
IJ82805-CCV3	Antimony	50.0	50.2	100	ug/l	EPA 6020	10/28/08 12:02
IJ82805-CCV4	Antimony	50.0	49.1	98	ug/l	EPA 6020	10/28/08 13:34
IJ82805-CCV5	Antimony	50.0	48.6	97	ug/l	EPA 6020	10/28/08 14:16
IJ82805-CCV6	Antimony	50.0	49.4	99	ug/l	EPA 6020	10/28/08 15:28
IJ82805-CCV7	Antimony	50.0	49.1	98	ug/l	EPA 6020	10/28/08 16:22
IJ82805-CCV8	Antimony	50.0	48.3	97	ug/l	EPA 6020	10/28/08 17:26
IJ82805-CCV9	Antimony	50.0	48.4	97	ug/l	EPA 6020	10/28/08 18:15

* Values outside of QC limits

CRDL STANDARD

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: Elan2
Calibration: I8J2501
Sequence: IJ82504
Injection Date: 10/25/08 12:18

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IJ82504-CRL1	Arsenic	0.200	0.237	118	ug/l	50 - 150
	Barium	0.200	0.0623	31 *	ug/l	50 - 150
	Beryllium	0.200	0.270	135	ug/l	50 - 150
	Cadmium	0.200	0.229	114	ug/l	50 - 150
	Chromium	0.200	0.379	190 *	ug/l	50 - 150
	Cobalt	0.200	0.240	120	ug/l	50 - 150
	Copper	0.200	0.249	125	ug/l	50 - 150
	Lead	0.200	0.249	125	ug/l	50 - 150
	Molybdenum	0.200	0.366	183 *	ug/l	50 - 150
	Nickel	0.200	0.233	116	ug/l	50 - 150
	Selenium	0.200	0.187	93	ug/l	50 - 150
	Silver	0.200	0.261	130	ug/l	50 - 150
	Thallium	0.200	0.228	114	ug/l	50 - 150
	Vanadium	0.200	0.243	122	ug/l	50 - 150
	Zinc	0.200	-0.135	*	ug/l	50 - 150
IJ82504-CRL2	Arsenic	2.00	1.74	87	ug/l	50 - 150
	Barium	2.00	1.88	94	ug/l	50 - 150
	Beryllium	2.00	2.31	116	ug/l	50 - 150
	Cadmium	2.00	2.06	103	ug/l	50 - 150
	Chromium	2.00	2.24	112	ug/l	50 - 150
	Cobalt	2.00	2.19	109	ug/l	50 - 150
	Copper	2.00	2.13	107	ug/l	50 - 150
	Lead	2.00	2.32	116	ug/l	50 - 150
	Molybdenum	2.00	2.11	106	ug/l	50 - 150
	Nickel	2.00	2.11	106	ug/l	50 - 150
	Selenium	2.00	1.95	97	ug/l	50 - 150
	Silver	2.00	2.17	108	ug/l	50 - 150
	Thallium	2.00	2.20	110	ug/l	50 - 150

CRL1 does not bracket any samples, no impact

CRDL STANDARD

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: Elan2
Calibration: I8J2501
Sequence: IJ82504
Injection Date: 10/25/08 12:22

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IJ82504-CRL2	Vanadium	2.00	2.10	105	ug/l	50 - 150
	Zinc	2.00	1.87	93	ug/l	50 - 150
IJ82504-CRL3	Arsenic	2.00	2.12	106	ug/l	50 - 150
	Barium	2.00	1.80	90	ug/l	50 - 150
	Beryllium	2.00	2.43	122	ug/l	50 - 150
	Cadmium	2.00	2.00	100	ug/l	50 - 150
	Chromium	2.00	2.27	113	ug/l	50 - 150
	Cobalt	2.00	2.24	112	ug/l	50 - 150
	Copper	2.00	2.13	107	ug/l	50 - 150
	Lead	2.00	2.23	111	ug/l	50 - 150
	Molybdenum	2.00	1.99	99	ug/l	50 - 150
	Nickel	2.00	2.15	107	ug/l	50 - 150
	Selenium	2.00	1.98	99	ug/l	50 - 150
	Silver	2.00	2.14	107	ug/l	50 - 150
	Thallium	2.00	2.15	107	ug/l	50 - 150
	Vanadium	2.00	2.20	110	ug/l	50 - 150
	Zinc	2.00	1.86	93	ug/l	50 - 150
IJ82504-CRL4	Arsenic	2.00	2.40	120	ug/l	50 - 150
	Barium	2.00	1.88	94	ug/l	50 - 150
	Beryllium	2.00	2.42	121	ug/l	50 - 150
	Cadmium	2.00	2.09	104	ug/l	50 - 150
	Chromium	2.00	2.18	109	ug/l	50 - 150
	Cobalt	2.00	2.19	110	ug/l	50 - 150
	Copper	2.00	2.09	104	ug/l	50 - 150
	Lead	2.00	2.24	112	ug/l	50 - 150
	Molybdenum	2.00	2.05	103	ug/l	50 - 150
	Nickel	2.00	2.12	106	ug/l	50 - 150
	Selenium	2.00	1.89	95	ug/l	50 - 150

CRDL STANDARD

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J2501

Sequence: IJ82504

Injection Date: 10/25/08 15:39

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IJ82504-CRL4	Silver	2.00	2.16	108	ug/l	50 - 150
	Thallium	2.00	2.14	107	ug/l	50 - 150
	Vanadium	2.00	2.14	107	ug/l	50 - 150
	Zinc	2.00	1.87	93	ug/l	50 - 150

* Values outside of QC limits

CRDL STANDARD

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: ELAN

Calibration: I8J2801

Sequence: IJ82804

Injection Date: 10/27/08 20:02

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IJ82804-CRL1	Beryllium	0.200	0.225	112	ug/l	50 - 150
	Lead	0.200	0.216	108	ug/l	50 - 150
IJ82804-CRL2	Beryllium	2.00	2.00	100	ug/l	50 - 150
	Lead	2.00	2.04	102	ug/l	50 - 150
IJ82804-CRL3	Beryllium	2.00	2.14	107	ug/l	50 - 150
	Lead	2.00	2.00	100	ug/l	50 - 150
IJ82804-CRL4	Beryllium	2.00	1.88	94	ug/l	50 - 150
	Lead	2.00	2.11	105	ug/l	50 - 150

* Values outside of QC limits

CRDL STANDARD

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J2802

Sequence: IJ82805

Injection Date: 10/28/08 09:46

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IJ82805-CRL1	Antimony	0.200	0.268	134	ug/l	50 - 150
IJ82805-CRL2	Antimony	2.00	2.18	109	ug/l	50 - 150
IJ82805-CRL3	Antimony	2.00	2.03	102	ug/l	50 - 150
IJ82805-CRL4	Antimony	2.00	2.05	102	ug/l	50 - 150
IJ82805-CRL5	Antimony	2.00	2.07	103	ug/l	50 - 150

* Values outside of QC limits

BLANKS
EPA 6020

Laboratory: TestAmerica Irvine SDG:

Client: Brown and Caldwell - NV

Instrument ID: Elan2 Project: BP Yerington, NV, Soils

Sequence: IJ82504 Calibration: I8J2501

Lab Sample ID	Analyte	MDL (mg/L)	Found	MRL ?	Units	C	Method	Analyzed
IJ82504-ICB1	Arsenic	14	-0.0151	1.0	ug/l		EPA 6020	10/25/08 11:5
	Barium	8	0.00127	1.0	ug/l		EPA 6020	10/25/08 11:5
	Beryllium	4	0.00180	0.50	ug/l		EPA 6020	10/25/08 11:5
	Cadmium	2.4	0.00145	1.0	ug/l		EPA 6020	10/25/08 11:5
	Chromium	14	-0.0103	2.0	ug/l		EPA 6020	10/25/08 11:5
	Cobalt	3.2	0.00142	1.0	ug/l		EPA 6020	10/25/08 11:5
	Copper	15.2	-0.00100	2.0	ug/l		EPA 6020	10/25/08 11:5
	Lead	6	0.00291	1.0	ug/l		EPA 6020	10/25/08 11:5
	Molybdenum	4	0.0989	2.0	ug/l		EPA 6020	10/25/08 11:5
	Nickel	18	0.00107	2.0	ug/l		EPA 6020	10/25/08 11:5
	Selenium	6	-0.0479	2.0	ug/l		EPA 6020	10/25/08 11:5
	Silver	6	-0.000510	1.0	ug/l		EPA 6020	10/25/08 11:5
	Thallium	4	0.110	1.0	ug/l		EPA 6020	10/25/08 11:5
	Vanadium	14	0.0271	2.0	ug/l		EPA 6020	10/25/08 11:5
	Zinc	52	-0.00736	20	ug/l		EPA 6020	10/25/08 11:5
8J25009-BLK1	Arsenic		0.0383	0.50	mg/kg		EPA 6020	10/25/08 12:2
	Barium		-0.0153	0.50	mg/kg		EPA 6020	10/25/08 12:2
	Cadmium		0.00748	0.50	mg/kg		EPA 6020	10/25/08 12:2
	Chromium		0.441	1.0	mg/kg		EPA 6020	10/25/08 12:2
	Cobalt		0.00676	0.50	mg/kg		EPA 6020	10/25/08 12:2
	Copper		0.165	1.0	mg/kg		EPA 6020	10/25/08 12:2
	Molybdenum		0.0393	1.0	mg/kg		EPA 6020	10/25/08 12:2
	Nickel		0.0715	1.0	mg/kg		EPA 6020	10/25/08 12:2
	Selenium		0.000255	1.0	mg/kg		EPA 6020	10/25/08 12:2
	Silver		0.0254	0.50	mg/kg		EPA 6020	10/25/08 12:2
	Thallium		0.00714	0.50	mg/kg		EPA 6020	10/25/08 12:2
	Vanadium		-0.213	1.0	mg/kg		EPA 6020	10/25/08 12:2
	Zinc		0.589	10	mg/kg		EPA 6020	10/25/08 12:2
IJ82504-CCB2	Arsenic		0.140	1.0	ug/l		EPA 6020	10/25/08 13:1
	Barium		-0.115	1.0	ug/l		EPA 6020	10/25/08 13:1
	Beryllium		0.00337	0.50	ug/l		EPA 6020	10/25/08 13:1
	Cadmium		0.0130	1.0	ug/l		EPA 6020	10/25/08 13:1
	Chromium		0.0343	2.0	ug/l		EPA 6020	10/25/08 13:1
	Cobalt		0.00664	1.0	ug/l		EPA 6020	10/25/08 13:1
	Copper		-0.00146	2.0	ug/l		EPA 6020	10/25/08 13:1
	Lead		0.0111	1.0	ug/l		EPA 6020	10/25/08 13:1
	Molybdenum		0.174	2.0	ug/l		EPA 6020	10/25/08 13:1
	Nickel		0.0468	2.0	ug/l		EPA 6020	10/25/08 13:1
	Selenium		-0.0493	2.0	ug/l		EPA 6020	10/25/08 13:1
	Silver		0.0520	1.0	ug/l		EPA 6020	10/25/08 13:1
	Thallium		0.0397	1.0	ug/l		EPA 6020	10/25/08 13:1
	Vanadium		-0.0654	2.0	ug/l		EPA 6020	10/25/08 13:1
	Zinc		0.0674	20	ug/l		EPA 6020	10/25/08 13:1
IJ82504-CCB3	Arsenic		0.111	1.0	ug/l		EPA 6020	10/25/08 14:0
	Barium		-0.106	1.0	ug/l		EPA 6020	10/25/08 14:0

no impact

BLANKS
EPA 6020

Laboratory: TestAmerica Irvine SDG:

Client: Brown and Caldwell - NV

Instrument ID: Elan2 Project: BP Yerington, NV, Soils

Sequence: IJ82504 Calibration: I8J2501

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
IJ82504-CCB3	Beryllium	0.00714	0.50	ug/l		EPA 6020	10/25/08 14:0
	Cadmium	0.0125	1.0	ug/l		EPA 6020	10/25/08 14:0
	Chromium	0.0972	2.0	ug/l		EPA 6020	10/25/08 14:0
	Cobalt	0.00776	1.0	ug/l		EPA 6020	10/25/08 14:0
	Copper	-0.00511	2.0	ug/l		EPA 6020	10/25/08 14:0
	Lead	0.0152	1.0	ug/l		EPA 6020	10/25/08 14:0
	Molybdenum	0.157	2.0	ug/l		EPA 6020	10/25/08 14:0
	Nickel	0.0447	2.0	ug/l		EPA 6020	10/25/08 14:0
	Selenium	-0.0213	2.0	ug/l		EPA 6020	10/25/08 14:0
	Silver	0.0506	1.0	ug/l		EPA 6020	10/25/08 14:0
	Thallium	0.0300	1.0	ug/l		EPA 6020	10/25/08 14:0
	Vanadium	-0.0609	2.0	ug/l		EPA 6020	10/25/08 14:0
	Zinc	0.133	20	ug/l		EPA 6020	10/25/08 14:0
IJ82504-CCB4	Arsenic	0.0698	1.0	ug/l		EPA 6020	10/25/08 15:1
	Barium	-0.106	1.0	ug/l		EPA 6020	10/25/08 15:1
	Beryllium	0.0110	0.50	ug/l		EPA 6020	10/25/08 15:1
	Cadmium	0.0186	1.0	ug/l		EPA 6020	10/25/08 15:1
	Chromium	0.0481	2.0	ug/l		EPA 6020	10/25/08 15:1
	Cobalt	0.0128	1.0	ug/l		EPA 6020	10/25/08 15:1
	Copper	0.00646	2.0	ug/l		EPA 6020	10/25/08 15:1
	Lead	0.0170	1.0	ug/l		EPA 6020	10/25/08 15:1
	Molybdenum	0.165	2.0	ug/l		EPA 6020	10/25/08 15:1
	Nickel	0.0580	2.0	ug/l		EPA 6020	10/25/08 15:1
	Selenium	-0.0212	2.0	ug/l		EPA 6020	10/25/08 15:1
	Silver	0.0543	1.0	ug/l		EPA 6020	10/25/08 15:1
	Thallium	0.0420	1.0	ug/l		EPA 6020	10/25/08 15:1
	Vanadium	-0.122	2.0	ug/l		EPA 6020	10/25/08 15:1
	Zinc	0.132	20	ug/l		EPA 6020	10/25/08 15:1
IJ82504-CCB5	Arsenic	0.401	1.0	ug/l		EPA 6020	10/25/08 15:3
	Barium	-0.0954	1.0	ug/l		EPA 6020	10/25/08 15:3
	Beryllium	0.0128	0.50	ug/l		EPA 6020	10/25/08 15:3
	Cadmium	0.0223	1.0	ug/l		EPA 6020	10/25/08 15:3
	Chromium	0.106	2.0	ug/l		EPA 6020	10/25/08 15:3
	Cobalt	0.0153	1.0	ug/l		EPA 6020	10/25/08 15:3
	Copper	0.0263	2.0	ug/l		EPA 6020	10/25/08 15:3
	Lead	0.0193	1.0	ug/l		EPA 6020	10/25/08 15:3
	Molybdenum	0.154	2.0	ug/l		EPA 6020	10/25/08 15:3
	Nickel	0.0578	2.0	ug/l		EPA 6020	10/25/08 15:3
	Selenium	-0.0294	2.0	ug/l		EPA 6020	10/25/08 15:3
	Silver	0.0559	1.0	ug/l		EPA 6020	10/25/08 15:3
	Thallium	0.0497	1.0	ug/l		EPA 6020	10/25/08 15:3
	Vanadium	-0.0689	2.0	ug/l		EPA 6020	10/25/08 15:3
	Zinc	0.152	20	ug/l		EPA 6020	10/25/08 15:3
8J25009-BLK1	Beryllium	0.0155	0.30	mg/kg		EPA 6020	10/27/08 20:3
	Lead	0.0105	0.50	mg/kg		EPA 6020	10/27/08 20:3

no impact

BLANKS
EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Instrument ID: ELAN
Project: BP Yerington, NV, Soils
Sequence: IJ82804
Calibration: I8J2801

Lab Sample ID	Analyte MDL (mg/L)	Found	MRL	Units	C	Method	Analyzed
IJ82804-ICB1	Beryllium 4	0.0120	0.50	ug/l		EPA 6020	10/27/08 19:1
	Lead 6	0.00300	1.0	ug/l		EPA 6020	10/27/08 19:1
IJ82804-CCB1	Beryllium	0.00500	0.50	ug/l		EPA 6020	10/27/08 21:0
	Lead	-0.0120	1.0	ug/l		EPA 6020	10/27/08 21:0
IJ82804-CCB2	Beryllium	0.0180	0.50	ug/l		EPA 6020	10/27/08 21:4
	Lead	-0.0100	1.0	ug/l		EPA 6020	10/27/08 21:4
IJ82804-CCB3	Beryllium	0.0100	0.50	ug/l		EPA 6020	10/27/08 22:5
	Lead	-0.00600	1.0	ug/l		EPA 6020	10/27/08 22:5
IJ82804-CCB4	Beryllium	0.00200	0.50	ug/l		EPA 6020	10/27/08 23:4
	Lead	-0.00200	1.0	ug/l		EPA 6020	10/27/08 23:4

no impact

BLANKS
EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Instrument ID: Elan2
Project: BP Yerington, NV, Soils
Sequence: IJ82805
Calibration: I8J2802

Lab Sample ID	Analyte MDL (mg/L)	Found	MRL	Units	C	Method	Analyzed
IJ82805-ICB1	Antimony 4	0.214	2.0	ug/l		EPA 6020	10/28/08 9:36
IJ82805-CCB1	Antimony	0.386	2.0	ug/l		EPA 6020	10/28/08 10:4
IJ82805-CCB2	Antimony	0.380	2.0	ug/l		EPA 6020	10/28/08 11:2
IJ82805-CCB3	Antimony	0.377	2.0	ug/l		EPA 6020	10/28/08 12:0
8J27132-BLK1	Antimony	0.0268	1.0	mg/kg		EPA 6020	10/28/08 12:5
IJ82805-CCB4	Antimony	0.349	2.0	ug/l		EPA 6020	10/28/08 13:3
IJ82805-CCB5	Antimony	0.350	2.0	ug/l		EPA 6020	10/28/08 14:2
IJ82805-CCB6	Antimony	0.340	2.0	ug/l		EPA 6020	10/28/08 15:3
IJ82805-CCB7	Antimony	0.332	2.0	ug/l		EPA 6020	10/28/08 16:2
IJ82805-CCB8	Antimony	0.328	2.0	ug/l		EPA 6020	10/28/08 17:3
IJ82805-CCB9	Antimony	0.326	2.0	ug/l		EPA 6020	10/28/08 18:1

no impact

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

80-120

Instrument ID: Elan2

Calibration: I8J2501

Sequence: IJ82504

Check Nbr: 1

	True		Found			
Analyte	Sol A	Sol B	Sol A	%R	Sol B	%R
Arsenic	NA	NA	-0.137	NA		NA
Arsenic	NA	20.0		NA	17.9	90
Barium	NA	NA		NA	0.479	NA
Barium	NA	NA	0.468	NA		NA
Beryllium	NA	NA		NA	0.00932	NA
Beryllium	NA	NA	0.00344	NA		NA
Cadmium	NA	NA	2.72	NA		NA
Cadmium	NA	20.0		NA	19.8	99
Chromium	NA	NA	2.07	NA		NA
Chromium	NA	20.0		NA	21.2	106
Cobalt	NA	NA	0.213	NA		NA
Cobalt	NA	20.0		NA	18.8	94
Copper	NA	NA	2.46	NA		NA
Copper	NA	20.0		NA	19.7	99
Lead	NA	NA		NA	0.610	NA
Lead	NA	NA	0.609	NA		NA
Molybdenum	NA	2000		NA	2190	109
Molybdenum mg/L	2000	NA	2160	108		NA
Nickel	NA	NA	0.654	NA		NA
Nickel	NA	20.0		NA	17.7	88
Selenium	NA	NA		NA	0.429	NA
Selenium	NA	NA	0.318	NA		NA
Silver	NA	NA	0.101	NA		NA
Silver	NA	20.0		NA	17.4	87
Thallium	NA	NA		NA	0.0234	NA
Thallium	NA	NA	0.0274	NA		NA
Vanadium	NA	NA		NA	-0.208	NA
Vanadium	NA	NA	0.220	NA		NA
Zinc	NA	NA	6.77	NA		NA
Zinc	NA	20.0		NA	22.6	113

Mo low in all samples, no impact
(<25 mg/kg)

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J2501

80-120

Sequence: IJ82504

Check Nbr: 2

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Arsenic	NA	NA	-0.489	NA		NA
Arsenic	NA	20.0		NA	17.6	88
Barium	NA	NA		NA	0.486	NA
Barium	NA	NA	0.482	NA		NA
Beryllium	NA	NA		NA	0.00859	NA
Beryllium	NA	NA	0.00241	NA		NA
Cadmium	NA	NA	2.64	NA		NA
Cadmium	NA	20.0		NA	19.5	97
Chromium	NA	NA	2.91	NA		NA
Chromium	NA	20.0		NA	22.4	112
Cobalt	NA	NA	0.228	NA		NA
Cobalt	NA	20.0		NA	18.9	94
Copper	NA	NA	2.43	NA		NA
Copper	NA	20.0		NA	19.6	98
Lead	NA	NA		NA	0.615	NA
Lead	NA	NA	0.614	NA		NA
Molybdenum	NA	2000		NA	2200	110
Molybdenum	2000	NA	2160	108		NA
Nickel	NA	NA	0.829	NA		NA
Nickel	NA	20.0		NA	17.9	90
Selenium	NA	NA		NA	0.421	NA
Selenium	NA	NA	0.366	NA		NA
Silver	NA	NA	0.107	NA		NA
Silver	NA	20.0		NA	17.1	85
Thallium	NA	NA		NA	0.0183	NA
Thallium	NA	NA	0.0338	NA		NA
Vanadium	NA	NA		NA	0.0764	NA
Vanadium	NA	NA	0.318	NA		NA
Zinc	NA	NA	6.56	NA		NA
Zinc	NA	20.0		NA	22.1	110

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

80-120

Instrument ID: Elan2

Calibration: I8J2501

Sequence: IJ82504

Check Nbr: 3

	True		Found			
Analyte	Sol A	Sol B	Sol A	%R	Sol B	%R
Arsenic	NA	NA	-0.292	NA		NA
Arsenic	NA	20.0		NA	17.3	86
Barium	NA	NA		NA	0.561	NA
Barium	NA	NA	0.554	NA		NA
Beryllium	NA	NA		NA	0.0115	NA
Beryllium	NA	NA	0.00801	NA		NA
Cadmium	NA	NA	2.64	NA		NA
Cadmium	NA	20.0		NA	20.6	103
Chromium	NA	NA	2.65	NA		NA
Chromium	NA	20.0		NA	21.2	106
Cobalt	NA	NA	0.230	NA		NA
Cobalt	NA	20.0		NA	18.8	94
Copper	NA	NA	2.33	NA		NA
Copper	NA	20.0		NA	19.1	95
Lead	NA	NA		NA	0.610	NA
Lead	NA	NA	0.622	NA		NA
Molybdenum	NA	2000		NA	2290	114
Molybdenum	2000	NA	2240	112		NA
Nickel	NA	NA	0.987	NA		NA
Nickel	NA	20.0		NA	17.8	89
Selenium	NA	NA		NA	0.353	NA
Selenium	NA	NA	0.293	NA		NA
Silver	NA	NA	0.105	NA		NA
Silver	NA	20.0		NA	17.9	90
Thallium	NA	NA		NA	0.0241	NA
Thallium	NA	NA	0.0458	NA		NA
Vanadium	NA	NA		NA	-0.0231	NA
Vanadium	NA	NA	0.353	NA		NA
Zinc	NA	NA	6.63	NA		NA
Zinc	NA	20.0		NA	21.6	108

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: ELAN

Calibration: I8J2801

Sequence: IJ82804

Check Nbr: 1

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Beryllium	NA	NA		NA	0.0180	NA
Beryllium	NA	NA	0.0100	NA		NA
Lead	NA	NA		NA	0.526	NA
Lead	NA	NA	0.530	NA		NA

no impact

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: ELAN

Calibration: I8J2801

Sequence: IJ82804

Check Nbr: 2

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Beryllium	NA	NA		NA	0.0200	NA
Beryllium	NA	NA	0.00700	NA		NA
Lead	NA	NA		NA	0.519	NA
Lead	NA	NA	0.518	NA		NA

no impact

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: ELAN

Calibration: I8J2801

Sequence: IJ82804

Check Nbr: 3

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Beryllium	NA	NA		NA	-0.00300	NA
Beryllium	NA	NA	0.00500	NA		NA
Lead	NA	NA		NA	0.519	NA
Lead	NA	NA	0.530	NA		NA

* Values outside of QC limits

no impact

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J2802

Sequence: IJ82805

Check Nbr: 1

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Antimony	NA	NA		NA	0.0806	NA
Antimony	NA	NA	0.113	NA		NA

no impact

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J2802

Sequence: IJ82805

Check Nbr: 2

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Antimony	NA	NA		NA	0.0679	NA
Antimony	NA	NA	0.0908	NA		NA

no impact

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J2802

Sequence: IJ82805

Check Nbr: 3

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Antimony	NA	NA		NA	0.0481	NA
Antimony	NA	NA	0.0639	NA		NA

no impact

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J2802

Sequence: IJ82805

Check Nbr: 4

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Antimony	NA	NA		NA	0.0597	NA
Antimony	NA	NA	0.0771	NA		NA

* Values outside of QC limits

no impact

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Sequence: IJ82504
Instrument: Elan2
Calibration: I8J2501

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	IJ82504-CAL1	081025-2-001	10/25/08 11:33
Cal Standard	IJ82504-CAL2	081025-2-002	10/25/08 11:38
Cal Standard	IJ82504-CAL3	081025-2-003	10/25/08 11:43
Cal Standard	IJ82504-CAL4	081025-2-004	10/25/08 11:48
Initial Cal Check	IJ82504-ICV1	081025-2-005	10/25/08 11:53
Initial Cal Blank	IJ82504-ICB1	081025-2-006	10/25/08 11:57
Interference Check A	IJ82504-IFA1	081025-2-007	10/25/08 12:03
Interference Check B	IJ82504-IFB1	081025-2-008	10/25/08 12:07
MRL Check	IJ82504-CRL1	081025-2-010	10/25/08 12:18
MRL Check	IJ82504-CRL2	081025-2-011	10/25/08 12:22
Blank	8J25009-BLK1	081025-2-012	10/25/08 12:28
LCS	8J25009-BS1	081025-2-013	10/25/08 12:32
OU4-FEP-13A-SC	IRJ1353-03	081025-2-014	10/25/08 12:35
OU4-FEP-13A-SC	8J25009-MS1	081025-2-015	10/25/08 12:39
OU4-FEP-13A-SC	8J25009-MSD1	081025-2-016	10/25/08 12:43
OU4-UEP-10A-SC	IRJ1353-01	081025-2-019	10/25/08 12:55
OU4-UEP-10B-SC	IRJ1353-02	081025-2-020	10/25/08 12:59
OU4-FEP-13B-SC	IRJ1353-04	081025-2-021	10/25/08 13:02
Calibration Check	IJ82504-CCV2	081025-2-024	10/25/08 13:16
Calibration Blank	IJ82504-CCB2	081025-2-025	10/25/08 13:19
Calibration Check	IJ82504-CCV3	081025-2-036	10/25/08 14:02
Calibration Blank	IJ82504-CCB3	081025-2-037	10/25/08 14:06
MRL Check	IJ82504-CRL3	081025-2-038	10/25/08 14:12
Interference Check A	IJ82504-IFA2	081025-2-039	10/25/08 14:16
Interference Check B	IJ82504-IFB2	081025-2-040	10/25/08 14:22
Calibration Check	IJ82504-CCV4	081025-2-052	10/25/08 15:12
Calibration Blank	IJ82504-CCB4	081025-2-053	10/25/08 15:16
Calibration Check	IJ82504-CCV5	081025-2-057	10/25/08 15:32
Calibration Blank	IJ82504-CCB5	081025-2-058	10/25/08 15:35
MRL Check	IJ82504-CRL4	081025-2-059	10/25/08 15:39
Interference Check A	IJ82504-IFA3	081025-2-060	10/25/08 15:44

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Sequence: IJ82504

Instrument: Elan2

Calibration: I8J2501

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Interference Check B	IJ82504-IFB3	081025-2-061	10/25/08 15:48
Blank	8J25009-BLK1	081027-4-017	10/27/08 20:37
LCS	8J25009-BS1	081027-4-018	10/27/08 20:41
OU4-FEP-13A-SC	8J25009-MS1	081027-4-020	10/27/08 20:49
OU4-FEP-13A-SC	8J25009-MSD1	081027-4-021	10/27/08 20:53

Part of next sequence

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Sequence: IJ82804
Instrument: ELAN
Calibration: I8J2801

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	IJ82804-CAL1	081027-4-001	10/27/08 18:48
Cal Standard	IJ82804-CAL2	081027-4-002	10/27/08 18:53
Cal Standard	IJ82804-CAL3	081027-4-003	10/27/08 18:59
Cal Standard	IJ82804-CAL4	081027-4-004	10/27/08 19:05
Initial Cal Check	IJ82804-ICV1	081027-4-005	10/27/08 19:12
Initial Cal Blank	IJ82804-ICB1	081027-4-006	10/27/08 19:16
Interference Check A	IJ82804-IFA1	081027-4-007	10/27/08 19:48
Interference Check B	IJ82804-IFB1	081027-4-008	10/27/08 19:54
MRL Check	IJ82804-CRL1	081027-4-010	10/27/08 20:02
MRL Check	IJ82804-CRL2	081027-4-011	10/27/08 20:06
OU4-FEP-13A-SC	IRJ1353-03	081027-4-019	10/27/08 20:45
Calibration Check	IJ82804-CCV1	081027-4-022	10/27/08 20:57
Calibration Blank	IJ82804-CCB1	081027-4-023	10/27/08 21:01
OU4-UEP-10A-SC	IRJ1353-01	081027-4-032	10/27/08 21:36
OU4-UEP-10B-SC	IRJ1353-02	081027-4-033	10/27/08 21:40
Calibration Check	IJ82804-CCV2	081027-4-034	10/27/08 21:43
Calibration Blank	IJ82804-CCB2	081027-4-035	10/27/08 21:47
MRL Check	IJ82804-CRL3	081027-4-036	10/27/08 21:57
Interference Check A	IJ82804-IFA2	081027-4-037	10/27/08 22:01
Interference Check B	IJ82804-IFB2	081027-4-038	10/27/08 22:06
OU4-FEP-13B-SC	IRJ1353-04	081027-4-045	10/27/08 22:35
Calibration Check	IJ82804-CCV3	081027-4-049	10/27/08 22:51
Calibration Blank	IJ82804-CCB3	081027-4-050	10/27/08 22:55
Calibration Check	IJ82804-CCV4	081027-4-061	10/27/08 23:38
Calibration Blank	IJ82804-CCB4	081027-4-062	10/27/08 23:42
MRL Check	IJ82804-CRL4	081027-4-063	10/27/08 23:46
Interference Check A	IJ82804-IFA3	081027-4-064	10/27/08 23:50
Interference Check B	IJ82804-IFB3	081027-4-065	10/27/08 23:55

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Sequence: IJ82805
Instrument: Elan2
Calibration: I8J2802

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	IJ82805-CAL1	081028-1-001	10/28/08 09:11
Cal Standard	IJ82805-CAL2	081028-1-002	10/28/08 09:16
Cal Standard	IJ82805-CAL3	081028-1-003	10/28/08 09:21
Cal Standard	IJ82805-CAL4	081028-1-004	10/28/08 09:27
Initial Cal Check	IJ82805-ICV1	081028-1-005	10/28/08 09:32
Initial Cal Blank	IJ82805-ICB1	081028-1-006	10/28/08 09:36
MRL Check	IJ82805-CRL1	081028-1-007	10/28/08 09:46
MRL Check	IJ82805-CRL2	081028-1-008	10/28/08 09:50
Calibration Check	IJ82805-CCV1	081028-1-019	10/28/08 10:40
Calibration Blank	IJ82805-CCB1	081028-1-020	10/28/08 10:44
Calibration Check	IJ82805-CCV2	081028-1-028	10/28/08 11:23
Calibration Blank	IJ82805-CCB2	081028-1-029	10/28/08 11:27
Calibration Check	IJ82805-CCV3	081028-1-038	10/28/08 12:02
Calibration Blank	IJ82805-CCB3	081028-1-039	10/28/08 12:06
Interference Check A	IJ82805-IFA1	081028-1-040	10/28/08 12:14
Interference Check B	IJ82805-IFB1	081028-1-041	10/28/08 12:18
Blank	8J27132-BLK1	081028-1-043	10/28/08 12:59
LCS	8J27132-BS1	081028-1-044	10/28/08 13:03
OU4-UEP-10A-SC	IRJ1353-01	081028-1-045	10/28/08 13:07
OU4-UEP-10A-SC	8J27132-MS1	081028-1-046	10/28/08 13:11
OU4-UEP-10A-SC	8J27132-MSD1	081028-1-047	10/28/08 13:15
OU4-UEP-10B-SC	IRJ1353-02	081028-1-050	10/28/08 13:27
OU4-FEP-13A-SC	IRJ1353-03	081028-1-051	10/28/08 13:30
Calibration Check	IJ82805-CCV4	081028-1-052	10/28/08 13:34
Calibration Blank	IJ82805-CCB4	081028-1-053	10/28/08 13:38
OU4-FEP-13B-SC	IRJ1353-04	081028-1-054	10/28/08 13:48
Calibration Check	IJ82805-CCV5	081028-1-061	10/28/08 14:16
Calibration Blank	IJ82805-CCB5	081028-1-062	10/28/08 14:20
MRL Check	IJ82805-CRL3	081028-1-063	10/28/08 14:26
Interference Check A	IJ82805-IFA2	081028-1-064	10/28/08 14:30
Interference Check B	IJ82805-IFB2	081028-1-065	10/28/08 14:34

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Sequence: IJ82805
Instrument: Elan2
Calibration: I8J2802

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	IJ82805-CCV6	081028-1-076	10/28/08 15:28
Calibration Blank	IJ82805-CCB6	081028-1-077	10/28/08 15:31
Calibration Check	IJ82805-CCV7	081028-1-088	10/28/08 16:22
Calibration Blank	IJ82805-CCB7	081028-1-089	10/28/08 16:26
MRL Check	IJ82805-CRL4	081028-1-090	10/28/08 16:32
Interference Check A	IJ82805-IFA3	081028-1-091	10/28/08 16:36
Interference Check B	IJ82805-IFB3	081028-1-092	10/28/08 16:41
Calibration Check	IJ82805-CCV8	081028-1-103	10/28/08 17:26
Calibration Blank	IJ82805-CCB8	081028-1-104	10/28/08 17:30
Calibration Check	IJ82805-CCV9	081028-1-115	10/28/08 18:15
Calibration Blank	IJ82805-CCB9	081028-1-116	10/28/08 18:19
MRL Check	IJ82805-CRL5	081028-1-117	10/28/08 18:23
Interference Check A	IJ82805-IFA4	081028-1-118	10/28/08 18:27
Interference Check B	IJ82805-IFB4	081028-1-119	10/28/08 18:31

PREPARATION BENCH SHEET

8J25009

TestAmerica Irvine

Printed: 10/25/2008 11:18:20AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
8J25009-BLK1		QC	10/25/08 06:55	2	50										
8J25009-BS1		QC	10/25/08 06:55	2	50		8090397	1000							
8J25009-MS1		QC	10/25/08 06:55	2	50	IRJ1353-03	8090397	1000							
8J25009-MSD1		QC	10/25/08 06:55	2	50	IRJ1353-03	8090397	1000							
IRJ1353-01	A	Molybdenum-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-01	A	Zinc-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-01	A	Vanadium-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-01	A	Thallium-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-01	A	Silver-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-01	A	Nickel-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-01	A	Lead-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-01	A	Copper-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-01	A	Cobalt-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-01	A	Chromium-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-01	A	Cadmium-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-01	A	Beryllium-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-01	A	Barium-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-01	A	Arsenic-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-01	A	Selenium-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-02	A	Nickel-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag

Spiking Witnessed By Date

FR 10/25/08
Preparation Reviewed By Date

FR 10/25/08
Extracts Received By Date

PREPARATION BENCH SHEET

8J25009

TestAmerica Irvine

Printed: 10/25/2008 11:18:20AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1353-02	A	Lead-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-02	A	Zinc-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-02	A	Vanadium-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-02	A	Thallium-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-02	A	Selenium-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-02	A	Molybdenum-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-02	A	Barium-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-02	A	Cobalt-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-02	A	Arsenic-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-02	A	Chromium-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-02	A	Cadmium-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-02	A	Beryllium-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-02	A	Silver-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-02	A	Copper-6020	10/25/08 06:55	2.01	50										BP Sequence. J flag
IRJ1353-03	A	Lead-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1353-03	A	Nickel-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1353-03	A	Selenium-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1353-03	A	Silver-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1353-03	A	Vanadium-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1353-03	A	Copper-6020	10/25/08 06:55	2	50										BP Sequence. J flag

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J25009

TestAmerica Irvine

Printed: 10/25/2008 11:18:20AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1353-03	A	Zinc-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1353-03	A	Thallium-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1353-03	A	Chromium-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1353-03	A	Cadmium-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1353-03	A	Beryllium-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1353-03	A	Barium-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1353-03	A	Arsenic-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1353-03	A	Antimony-6020	10/25/08 06:55	2	50										Added for BatchQC in: 8J25009
IRJ1353-03	A	Cobalt-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1353-03	A	Molybdenum-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1353-04	A	Molybdenum-6020	10/25/08 06:55	1.99	50										BP Sequence. J flag
IRJ1353-04	A	Nickel-6020	10/25/08 06:55	1.99	50										BP Sequence. J flag
IRJ1353-04	A	Cadmium-6020	10/25/08 06:55	1.99	50										BP Sequence. J flag
IRJ1353-04	A	Selenium-6020	10/25/08 06:55	1.99	50										BP Sequence. J flag
IRJ1353-04	A	Silver-6020	10/25/08 06:55	1.99	50										BP Sequence. J flag
IRJ1353-04	A	Thallium-6020	10/25/08 06:55	1.99	50										BP Sequence. J flag
IRJ1353-04	A	Zinc-6020	10/25/08 06:55	1.99	50										BP Sequence. J flag
IRJ1353-04	A	Vanadium-6020	10/25/08 06:55	1.99	50										BP Sequence. J flag
IRJ1353-04	A	Copper-6020	10/25/08 06:55	1.99	50										BP Sequence. J flag
IRJ1353-04	A	Chromium-6020	10/25/08 06:55	1.99	50										BP Sequence. J flag

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J25009

TestAmerica Irvine

Printed: 10/25/2008 11:18:20AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1353-04	A	Cobalt-6020	10/25/08 06:55	1.99	50										BP Sequence. J flag
IRJ1353-04	A	Beryllium-6020	10/25/08 06:55	1.99	50										BP Sequence. J flag
IRJ1353-04	A	Barium-6020	10/25/08 06:55	1.99	50										BP Sequence. J flag
IRJ1353-04	A	Arsenic-6020	10/25/08 06:55	1.99	50										BP Sequence. J flag
IRJ1353-04	A	Lead-6020	10/25/08 06:55	1.99	50										BP Sequence. J flag
IRJ1483-01	A	Lead-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1483-01	A	Zinc-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1483-01	A	Vanadium-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1483-01	A	Thallium-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1483-01	A	Silver-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1483-01	A	Selenium-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1483-01	A	Molybdenum-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1483-01	A	Barium-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1483-01	A	Copper-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1483-01	A	Cobalt-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1483-01	A	Chromium-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1483-01	A	Cadmium-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1483-01	A	Beryllium-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1483-01	A	Nickel-6020	10/25/08 06:55	2	50										BP Sequence. J flag
IRJ1483-01	A	Arsenic-6020	10/25/08 06:55	2	50										BP Sequence. J flag

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J27132

TestAmerica Irvine

Printed: 10/28/2008 9:19:48AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP (Aq. Reg.)** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
8J27132-BLK1		QC	10/27/08 21:56	2	50										
8J27132-BS1		QC	10/27/08 21:56	2	50		8090397	1000							
8J27132-MS1		QC	10/27/08 21:56	2	50	IRJ1353-01	8090397	1000							
8J27132-MSD1		QC	10/27/08 21:56	2	50	IRJ1353-01	8090397	1000							
IRJ1353-01	A	Antimony-6020 (Aq Re	10/27/08 21:56	2	50										BP Sequence. J flag
IRJ1353-02	A	Antimony-6020 (Aq Re	10/27/08 21:56	2	50										BP Sequence. J flag
IRJ1353-03	A	Antimony-6020 (Aq Re	10/27/08 21:56	2	50										BP Sequence. J flag
IRJ1353-04	A	Antimony-6020 (Aq Re	10/27/08 21:56	2	50										BP Sequence. J flag
IRJ1483-01	A	Antimony-6020 (Aq Re	10/27/08 21:56	2	50										BP Sequence. J flag
IRJ1483-02	A	Antimony-6020 (Aq Re	10/27/08 21:56	2	50										BP Sequence. J flag
IRJ1695-01	A	Antimony-6020 (Aq Re	10/27/08 21:56	2	50										BP Sequence. J flag
IRJ1695-02	A	Antimony-6020 (Aq Re	10/27/08 21:56	2	50										BP Sequence. J flag
IRJ1695-03	A	Antimony-6020 (Aq Re	10/27/08 21:56	2	50										BP Sequence. J flag
IRJ1695-04	A	Antimony-6020 (Aq Re	10/27/08 21:56	2	50										BP Sequence. J flag

Reagents used in Batch

Reagent	Description	Solvent

Spiking Witnessed By Date

FR Preparation Reviewed By 10/28/08 Date

FR Extracts Received By 10/28/08 Date

SEMI-ANNUAL MDL STUDY

Metals by ICPMS - EPA 6020/200.8

Analyt. Method: EPA 6020 / 200.8 — Instruments: **Elan**
Prep Method: EPA 3005A / 200.2
Matrix: **Water** (50ml-->50ml) — Cu [63]: alternative line
Units: **ug/L** — **Fe:** 10 x nominal conc

Reviewed: T.Vu (Apr/10/08)

#	Analyte	Spike(mg/l)		MDL Runs - (ug/L)								Calc Data (ug/L)			final	LIMS Data (ug/L)			Validation Criteria				Grubbs	Symbol
		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	Comm't	
1	Aluminum	<=10	10	12.38	12.27	11.63	11.59	11.47	11.44	14.68	11.99	12.18	1.07	3.21	3.2	6.0	10		OK	-46%	3	122%	2.33	Al [27]
2	Antimony	<=1	1	1.091	1.095	1.094	1.086	1.074	1.113	1.087	1.088	1.09	0.01	0.03	0.0	0.2	2	1	OK	-84%	30	109%		Sb [121]
3	Arsenic	<=1	1	1.027	1.072	1.046	1.121	0.698	0.706	0.94	0.666	0.91	0.19	0.57	0.6	0.70	1		OK	-19%	2	91%		As [75]
4	Barium	<=1	1	1.116	1.108	1.064	1.104	1.082	1.055	1.074	1.101	1.09	0.02	0.07	0.1	0.4	1		OK	-83%	15	109%		Ba [135]
5	Beryllium	<=0.2	0.2	0.221	0.221	0.216	0.235	0.218	0.26	0.268	0.211	0.23	0.02	0.06	0.06	0.075	0.5	0.2	OK	-14%	3	116%		Be [9]
6	Cadmium	<=0.2	0.2	0.201	0.207	0.208	0.203	0.201	**0.215**	0.203	0.203	0.21	0.00	0.01	0.01	0.11	1	0.2	OK	-87%	14	103%	2.09	Cd [114]
7	Cerium	<=1	1	1.114	1.129	1.109	1.109	1.089	1.084	1.084	1.085	1.10	0.02	0.05	0.1	0.35	1		OK	-85%	19	110%		Ce [140]
8	Chromium	<=1	1	1.3	1.257	1.259	1.218	1.27	1.281	1.284	1.306	1.27	0.03	0.08	0.1	0.70	2	1	OK	-88%	12	127%		Cr [52]
9	Cobalt	<=1	1	1.124	1.109	1.115	1.098	1.099	1.112	1.108	1.122	1.11	0.01	0.03	0.0	0.15	1		OK	-81%	35	111%		Co [59]
10	Copper	<=1	1	1.144	1.16	1.131	1.132	1.131	1.074	**1.248**	1.079	1.14	0.05	0.16	0.2	0.75	2	1	OK	-78%	6	114%	2.05	Cu [65]
11	Copper[63]	<=1	1	1.144	1.145	1.142	1.168	1.097	1.125	**1.249**	1.118	1.15	0.05	0.14	0.1	0.30	2	1	OK	-54%	7	115%	2.19	Cu [63]
12	Lead	<=1	1	1.168	1.145	1.15	1.14	1.119	1.143	1.133	1.109	1.14	0.02	0.05	0.1	0.3	1		OK	-82%	18	114%		Pb [208]
13	Manganese	<=1	1	1.136	1.083	1.05	1.088	1.106	1.126	1.143	1.114	1.11	0.03	0.09	0.1	0.75	1		OK	-88%	11	111%		Mn [55]
14	Molybdenum	<=1	1	1.122	1.261	1.252	1.117	1.074	1.061	1.08	1.06	1.13	0.08	0.25	0.2	0.2	2	1	OK	24%	4	113%		Mo [98]
15	Nickel	<=1	1	1.179	1.187	1.156	1.171	1.047	1.107	1.064	1.093	1.13	0.05	0.16	0.2	0.90	2	1	OK	-82%	6	113%		Ni [60]
16	Selenium	<=1	1	0.927	1.007	0.973	0.92	0.93	0.959	0.97	0.927	0.95	0.03	0.09	0.1	0.3	2	1	OK	-69%	11	95%		Se [82]
17	Silver	<=1	1	1.152	1.143	1.123	1.12	1.11	1.112	1.122	1.102	1.12	0.02	0.05	0.1	0.3	1		OK	-83%	20	112%		Ag [107]
18	Thallium	<=1	1	1.192	1.205	1.189	1.18	1.132	1.148	1.157	1.138	1.17	0.03	0.08	0.1	0.2	1		OK	-59%	12	117%		Tl [205]
19	Uranium	<=1	1	1.179	1.142	1.14	1.156	1.145	1.173	1.172	1.15	1.16	0.02	0.05	0.0	0.5	1		OK	-91%	22	116%		U [238]
20	Vanadium	<=1	1	1.17	1.102	1.087	0.997	1.079	1.011	1.219	1.055	1.09	0.08	0.23	0.2	0.7	2	1	OK	-68%	4	109%		V [51]
21	Zinc	<=5	2	2.843	2.725	2.725	2.66	2.398	**3.615**	2.8	2.802	2.82	0.35	1.05	1.0	2.5	10	5	OK	-58%	2	141%	2.27	Zn [66]
22	Tungsten	<=2														0.5	2							W [184]

For 0.1 ppb MDL:

17	Silver	<=1	0.2	0.227	0.228	0.231	0.215	0.222	0.225	0.231	0.225	0.23	0.01	0.02	0.02	0.2	1		OK	-92%	13	113%		Ag [107]

SEMI-ANNUAL MDL STUDY

Metals by ICPMS - EPA 6020/200.8

Analytical Method: EPA 6020 / 200.8 — Instruments: **Elan2**
Prep Method: EPA 3005A / 200.2
Matrix: **Water** (50ml-->50ml) — Cu [63]: alternative line
Units: **ug/L** — **Fe:** 10 x nominal conc

#	Analyte	Spike(mg/l)		MDL Runs - (ug/L)								Calc Data (ug/L)			final	LIMS Data (ug/L)			Validation Criteria				Grubbs	Symbol
		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	Comm't	
1	Aluminum	<=10	10	10.83	10.73	10.41	10.14	12.33	12.09	15.96	12.54	11.88	1.89	5.66	5.7	6.0	10		OK	-6%	2	119%	2.16	Al [27]
2	Antimony	<=1	1	1.133	1.114	1.131	1.121	1.226	1.223	1.235	1.222	1.18	0.05	0.16	0.2	0.2	2	1	OK	-18%	6	118%		Sb [121]
3	Arsenic	<=1	1	1.427	1.359	1.504	1.296	1.125	1.104	1.065	0.959	1.23	0.19	0.58	0.6	0.70	1		OK	-17%	2	123%		As [75]
4	Barium	<=1	1	1.076	1.085	1.040	1.050	1.174	1.159	1.176	1.205	1.12	0.06	0.19	0.2	0.4	1		OK	-52%	5	112%		Ba [135]
5	Beryllium	<=0.2	0.2	0.219	0.221	0.214	0.209	0.284	0.259	0.256	0.253	0.24	0.03	0.08	0.1	0.2	0.5	0.2	OK	-59%	2	120%		Be [9]
6	Cadmium	<=0.2	0.2	0.212	0.208	0.203	0.209	0.264	0.267	0.247	0.246	0.23	0.03	0.08	0.1	0.11	1	0.2	OK	-27%	2	116%		Cd [114]
7	Cerium	<=1	1	1.031	1.036	1.027	1.031	1.010	1.007	0.991	1.011	1.02	0.02	0.05	0.0	0.35	1		OK	-87%	21	102%		Ce [140]
8	Chromium	<=1	1	1.831	1.849	1.844	1.842	2.223	2.152	2.095	2.269	2.01	0.19	0.57	0.6	0.70	2	1	OK	-19%	2	201%		Cr [52]
9	Cobalt	<=1	1	1.124	1.126	1.117	1.114	1.120	1.130	1.111	1.119	1.12	0.01	0.02	0.0	0.15	1		OK	-87%	52	112%		Co [59]
10	Copper	<=1	1	1.126	1.117	contam.	1.155	1.128	1.144	1.26	1.139	1.15	0.05	0.15	0.2	0.75	2	1	OK	-80%	7	115%	2.19	Cu [65]
11	Copper[63]	<=1	1	1.149	1.149	contam.	1.169	1.152	1.149	1.25	1.156	1.17	0.04	0.12	0.1	0.30	2	1	OK	-60%	8	117%	2.23	Cu [63]
12	Lead	<=1	1	1.177	1.171	1.167	1.162	1.123	1.127	1.129	1.138	1.15	0.02	0.07	0.1	0.3	1		OK	-78%	15	115%		Pb [208]
13	Manganese	<=1	1	1.140	1.067	1.061	1.42	1.066	1.076	1.082	1.100	1.13	0.12	0.36	0.4	0.75	1		OK	-52%	3	113%	2.42	Mn [55]
14	Molybdenum	<=1	1	1.083	1.071	1.059	1.041	1.175	1.180	1.190	1.207	1.13	0.07	0.20	0.2	0.2	2	1	OK	no ch'g	5	113%		Mo [98]
15	Nickel	<=1	1	1.134	1.112	1.32	1.071	1.089	1.107	1.112	1.122	1.13	0.08	0.23	0.2	0.90	2	1	OK	-74%	4	113%	2.4	Ni [60]
16	Selenium	<=1	1	1.022	0.899	0.958	0.882	1.005	1.091	0.974	1.012	0.98	0.07	0.20	0.2	0.3	2	1	OK	-32%	5	98%		Se [82]
17	Silver	<=1	1	1.170	1.133	1.140	1.117	1.217	1.225	1.237	1.218	1.18	0.05	0.14	0.14	0.3	1		OK	-52%	7	118%		Ag [107]
18	Thallium	<=1	1	1.169	1.200	1.190	1.187	1.104	1.109	1.107	1.106	1.15	0.04	0.13	0.1	0.2	1		OK	-35%	8	115%		Tl [205]
19	Uranium	<=1	1	1.170	1.159	1.158	1.155	1.089	1.119	1.100	1.114	1.13	0.03	0.09	0.1	0.5	1		OK	-81%	11	113%		U [238]
20	Vanadium	<=1	2	1.606	1.672	1.415	1.413	1.847	1.701	2.032	1.439	1.64	0.22	0.67	0.7	0.7	2	1	OK	no ch'g	3	82%		V [51]
21	Zinc	<=5	2	2.929	2.838	2.905	2.776	2.917	4.14	3.284	3.321	3.14	0.45	1.36	1.4	2.5	10	5	OK	-46%	1	157%	2.22	Zn [66]
22	Tungsten	<=2														0.5	2							W [184]
	For 0.1ppb MDL																							
17	Silver	<=1	0.2	0.229	0.225	0.230	0.222	0.245	0.243	0.248	0.242	0.24	0.01	0.03	0.03	0.2	1		OK	-85%	7	118%		Ag [107]
9	Cobalt	<=1	0.2	0.218	0.217	0.216	0.221	0.270	0.273	0.250	0.250	0.24	0.02	0.07	0.07	0.15	1		OK	-52%	3	120%		Co [59]
7	Cerium	<=1	0.2	0.201	0.202	0.203	0.203	0.183	0.186	0.181	0.183	0.19	0.01	0.03	0.03	0.35	1		OK	-91%	7	96%		Ce [140]
12	Lead	<=1	0.2	0.243	0.236	0.229	0.237	0.259	0.262	0.254	0.255	0.25	0.01	0.04	0.04	0.10	1		OK	-63%	5	123%		Pb [208]

1ppb	*filename:*	080312-2	080312-2	080312-2	080312-2	080313-1	080313-1	080313-1	080313-1	021
	labnumber:	MDL-1PP	MDL-1PP	MDL-1PP	MDL-1PP	MDL-1PP	MDL-1PP	MDL-1PP	MDL-1PPB-8	
	date:	Mar/12/0	Mar/12/0	Mar/12/0	Mar/12/0	Mar/13/0	Mar/13/0	Mar/13/0	Mar/13/0	
	time:	14:41	14:45	14:49	14:53	10:37	10:40	10:44	10:48	
0.2ppb	*filename:*	080312-2	080312-2	080312-2	080312-2	080313-1	080313-1	080313-1	080313-1	017
	labnumber:	MDL-0.2F	MDL-0.2F	MDL-0.2F	MDL-0.2F	MDL-0.2F	MDL-0.2F	MDL-0.2F	MDL-0.2PPB-8	
	date:	Mar/12/0	Mar/12/0	Mar/12/0	Mar/12/0	Mar/13/0	Mar/13/0	Mar/13/0	Mar/13/0	
	time:	14:26	14:30	14:34	14:37	10:21	10:25	10:29	10:33	
2ppb	*filename:*	080312-2	080312-2	080312-2	080312-2	080313-1	080313-1	080313-1	080313-1	027
	labnumber:	MDL-2PP	MDL-2PP	MDL-2PP	MDL-2PP	MDL-2PP	MDL-2PP	MDL-2PP	MDL-2PPB-8	
	date:	Mar/12/0	Mar/12/0	Mar/12/0	Mar/12/0	Mar/13/0	Mar/13/0	Mar/13/0	Mar/13/0	
	time:	15:06	15:10	15:13	15:17	11:00	11:04	11:08	11:11	
10ppb	*filename:*	080312-2	080312-2	080312-2	080312-2	080313-1	080313-1	080313-1	080313-1	031

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

CV-Hg2
Units: ug/L
RL: 0.2

10/24/2008

ICV Spike: 8
CCV Spike: 4
Sequence: 081024-3-019

Analyte									
	labnumber:	**ICV**	**ICB**	**.2PPB**	**CCV**	**CCB**	**CCV**	**CCB**	**BP CHK**
	filename:	081024-3-019	081024-3-020	081024-3-021	081024-3-032	081024-3-033	081024-3-047	081024-3-048	081024-3-049
	analyzed:	Oct/24/08	Oct/24/08	Oct/24/08	Oct/24/08	Oct/24/08	Oct/24/08	Oct/24/08	Oct/24/08
	time:	4:36:21 PM	4:38:20 PM	4:40:19 PM	5:02:02 PM	5:04:05 PM	5:35:19 PM	5:37:22 PM	5:39:21 PM
Hg 253.7		8.16	0.01	0.21	4.56	0.02	4.55	0.02	0.26
	Spike:	8		0.2	4		4		
	Rec (%):	102		105	114		114		
	Limits (%):	90-110		50-150	90-110		90-110		

RUN LOG

Intrument: ***CV-Hg2***

Calib.file #: 081024-3 Calib. date: 10/24/2008

#	File_Name	Lab_Number	Dilution	Analyzed	Time
1	081024-3-002	0.2ppb	1	Oct/24/08	3:54:52 PM
2	081024-3-003	1.0ppb	1	Oct/24/08	3:56:49 PM
3	081024-3-004	5.0ppb	1	Oct/24/08	3:58:48 PM
4	081024-3-005	10.0ppb	1	Oct/24/08	4:00:47 PM
5	081024-3-006	15.0ppb	1	Oct/24/08	4:02:47 PM
6	081024-3-007	ICV	1	Oct/24/08	4:05:11 PM
7	081024-3-008	ICB	1	Oct/24/08	4:07:13 PM
8	081024-3-009	.2PPB	1	Oct/24/08	4:09:12 PM
9	081024-3-010	8J24095-BLK1	1	Oct/24/08	4:14:12 PM
10	081024-3-012	8J24095-BLK1	1	Oct/24/08	4:17:58 PM
11	081024-3-011	8J24095-BLK1	1	Oct/24/08	4:17:58 PM
12	081024-3-013	Calibration Blank	1	Oct/24/08	4:23:54 PM
13	081024-3-014	0.2ppb	1	Oct/24/08	4:25:51 PM
14	081024-3-015	1.0ppb	1	Oct/24/08	4:27:48 PM
15	081024-3-016	5.0ppb	1	Oct/24/08	4:29:46 PM
16	081024-3-017	10.0ppb	1	Oct/24/08	4:31:46 PM
17	081024-3-018	15.0ppb	1	Oct/24/08	4:33:46 PM
18	081024-3-019	ICV	1	Oct/24/08	4:36:21 PM
19	081024-3-020	ICB	1	Oct/24/08	4:38:20 PM
20	081024-3-021	.2PPB	1	Oct/24/08	4:40:19 PM
21	081024-3-022	8J24095-BLK1	1	Oct/24/08	4:42:16 PM
22	081024-3-023	8J24095-BS1	1	Oct/24/08	4:44:13 PM
23	081024-3-024	IRJ1929-21	1	Oct/24/08	4:46:09 PM
24	081024-3-025	8J24095-MS1	1	Oct/24/08	4:48:06 PM
25	081024-3-026	8J24095-MSD1	1	Oct/24/08	4:50:04 PM
26	081024-3-027	IRJ1353-01	1	Oct/24/08	4:52:02 PM
27	081024-3-028	IRJ1353-02	1	Oct/24/08	4:54:01 PM
28	081024-3-029	IRJ1353-03	1	Oct/24/08	4:56:01 PM
29	081024-3-030	IRJ1353-04	1	Oct/24/08	4:58:01 PM
30	081024-3-031	IRJ1353-05	1	Oct/24/08	5:00:00 PM
31	081024-3-032	CCV	1	Oct/24/08	5:02:02 PM
32	081024-3-033	CCB	1	Oct/24/08	5:04:05 PM
33	081024-3-034	IRJ1695-01	1	Oct/24/08	5:06:08 PM
34	081024-3-036	IRJ1695-02	1	Oct/24/08	5:08:10 PM
35	081024-3-035	IRJ1695-02	1	Oct/24/08	5:08:10 PM
36	081024-3-037	IRJ1695-04	1	Oct/24/08	5:14:33 PM
37	081024-3-038	IRJ1929-19	1	Oct/24/08	5:16:35 PM
38	081024-3-039	IEJ1929-20	1	Oct/24/08	5:18:34 PM
39	081024-3-040	IRJ1929-22	1	Oct/24/08	5:20:30 PM
40	081024-3-041	IRJ1929-23	1	Oct/24/08	5:22:26 PM
41	081024-3-042	IRJ1929-24	1	Oct/24/08	5:24:22 PM
42	081024-3-043	IRJ1929-25	1	Oct/24/08	5:26:18 PM
43	081024-3-044	IRJ1929-26	1	Oct/24/08	5:28:15 PM
44	081024-3-046	CCV	1	Oct/24/08	5:30:14 PM
45	081024-3-045	CCV	1	Oct/24/08	5:30:14 PM
46	081024-3-047	CCV	1	Oct/24/08	5:35:19 PM
47	081024-3-048	CCB	1	Oct/24/08	5:37:22 PM
48	081024-3-049	BP CHK	1	Oct/24/08	5:39:21 PM
49	081024-3-050	IRJ1929-27	1	Oct/24/08	5:42:14 PM
50	081024-3-051	IRJ1929-28	1	Oct/24/08	5:44:12 PM
51	081024-3-052	IRJ1929-29	1	Oct/24/08	5:46:10 PM
52	081024-3-053	IRJ1929-30	1	Oct/24/08	5:48:09 PM
53	081024-3-054	CCV	1	Oct/24/08	5:50:10 PM
54	081024-3-055	CCB	1	Oct/24/08	5:52:12 PM
55	081024-3-056	BP CHK	1	Oct/24/08	5:54:12 PM

PREPARATION BENCH SHEET

8J24095

TestAmerica Irvine

Printed: 10/24/2008 11:54:09AM

Matrix: Soil **Prepared using: Metals - EPA 7471A Hg** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	ul Surrogate	Initials		Extraction Comments
8J24095-BLK1		QC	10/24/08 11:52	0.5	50							
8J24095-BS1		QC	10/24/08 11:52	0.5	50		8100446	400				
8J24095-MS1		QC	10/24/08 11:52	0.5	50	IRJ1929-21	8100446	400				
8J24095-MSD1		QC	10/24/08 11:52	0.5	50	IRJ1929-21	8100446	400				
IRJ1353-01	A	Mercury-7470/7471	10/24/08 11:52	0.5	50							BP Sequence. J flag
IRJ1353-02	A	Mercury-7470/7471	10/24/08 11:52	0.5	50							BP Sequence. J flag
IRJ1353-03	A	Mercury-7470/7471	10/24/08 11:52	0.5	50							BP Sequence. J flag
IRJ1353-04	A	Mercury-7470/7471	10/24/08 11:52	0.5	50							BP Sequence. J flag
IRJ1695-01	A	Mercury-7470/7471	10/24/08 11:52	0.5	50							BP Sequence. J flag
IRJ1695-02	A	Mercury-7470/7471	10/24/08 11:52	0.5	50							BP Sequence. J flag
IRJ1695-03	A	Mercury-7470/7471	10/24/08 11:52	0.5	50							BP Sequence. J flag
IRJ1695-04	A	Mercury-7470/7471	10/24/08 11:52	0.5	50							BP Sequence. J flag
IRJ1929-19	A	Mercury-7470/7471	10/24/08 11:52	0.5	50							BP Sequence. J flag
IRJ1929-20	A	Mercury-7470/7471	10/24/08 11:52	0.5	50							BP Sequence. J flag
IRJ1929-21	A	Mercury-7470/7471	10/24/08 11:52	0.5	50							BP Sequence. J flag
IRJ1929-22	A	Mercury-7470/7471	10/24/08 11:52	0.5	50							BP Sequence. J flag
IRJ1929-23	A	Mercury-7470/7471	10/24/08 11:52	0.5	50							BP Sequence. J flag
IRJ1929-24	A	Mercury-7470/7471	10/24/08 11:52	0.5	50							BP Sequence. J flag
IRJ1929-25	A	Mercury-7470/7471	10/24/08 11:52	0.5	50							BP Sequence. J flag
IRJ1929-26	A	Mercury-7470/7471	10/24/08 11:52	0.5	50							BP Sequence. J flag

N/A
Spiking Witnessed By Date

DB 10/24/08
Preparation Reviewed By Date

DB 10/24/08
Extracts Received By Date

MDL STUDY & VERIFICATION

MERCURY by COLD VAPOR ATOMIC ABSORPTION

EPA 7470A/ 7471A / 245.1

Analyt. Method: EPA 7471 / 7471A / 245.1 P/E FIMS2
Prep Method: EPA 245.1 / 7470 A
Matrix: Water (20ml-->20ml)
Units: ug/L(raw) - mg/L(final)

Reviewed: T. Vu (Sept/19/08)

#	Analyte	Spike raw (ug/L)	Spike final (mg/L)	MDL Runs - (ug/L oc) Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	MDL Calculation Avr'g	Std Dev	oc MDL	final MDL	LIMS (mg/L) MDL	MRL	Validation Criteria MDL<RL	Ch'g	avr'g-to-calcMDL [1-10]	spike-to-LimsMDL [1-2]	%Rec	Comm't Grubbs test
			filename:	080918-3-0	080918-3-010	080918-3-0	080918-3-0	080918-4-009	080918-4-0	080918-4-0	080918-4-012												
			labnumber:	MDL1 wate	MDL2 water	MDL3 wate	MDL4 wate	MDL5 water	MDL6 wate	MDL7 wate	MDL8 water												
			date:	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08												
			time:	18:15	18:17	18:19	18:21	18:44	18:46	18:48	18:50												
1	Mercury	0.2	0.0002	0.1863	0.201	0.193	0.209	0.202	0.180	0.203	0.206	0.198	0.010	0.0301	0.00003	0.0001	0.0002	OK	-70%	6.6	2.0	99%	Verified

Analyt. Method: EPA 7471 / 7471A / 245.1 P/E FIMS2
Prep Method: EPA 245.1 / 7470 A
Matrix: Soil (0.5g-->50ml)
Units: ug/L(raw) - mg/Kg(final)

Reviewed: T. Vu (Sept/19/08)

#	Analyte	Spike raw (ug/L)	Spike final (mg/Kg)	MDL Runs - (ug/L oc) Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	MDL Calculation Avr'g	Std Dev	oc MDL	final MDL	LIMS (mg/Kg) MDL	MRL	Validation Criteria MDL<RL	Ch'g	avr'g-to-calcMDL [1-10]	spike-to-LimsMDL [1-2]	%Rec	Comm't Grubbs test
			filename:	080918-1-0	080918-1-023	080918-1-0	080918-1-0	080918-2-009	080918-2-0	080918-2-011													
			labnumber:	MDL1 soil	MDL2 soil	MDL3 soil	MDL4 soil	MDL5 soil	MDL6 soil	MDL7 soil													
			date:	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08													
			time:	17:08	17:09	17:11	17:13	17:42	17:44	17:46													
1	Mercury	0.2	0.02	0.196	0.184	0.165	0.167	0.186	0.189	0.164		0.179	0.013	0.0411	0.0041	0.012	0.020	OK	-66%	4.3	1.7	89%	Verified

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

Client:	Brown and Caldwell	**Date Sampled:**	10/15/2008 to 10/16/2008
Project:	BP Yerington, NV, Soils	**Date Received:**	10/18/2008
Lab:	IRJ1929		

SAMPLE RECEIPT: Samples were received intact, on ice, with custody seals, and with chain of custody numbers YER2031C, YER2032C, YER2033C, YER2034C, and YER2035C. The sample temperature was measured at 2.2° C upon receipt at the laboratory.

HOLDING TIMES: All samples were analyzed within holding times.

PROBLEMS ENCOUNTERED: No problems were encountered during sample analysis.

QA/QC CRITERIA: Calcium was detected in the Method Blank of batch 8J25060. Analyte concentration in the samples was greater than 10 times the concentration in the Method Blank.

Aluminum, Iron, and Magnesium were detected in the Method Blank of batch 8J25060.

Calcium was detected above the reporting limit in the Method Blank of batch 8J25060.

Chromium was detected in the Method Blank of batch 8J25063.

The MS and/or MSD recoveries for Boron, Manganese, and Silicon were below acceptance limits due to sample matrix interference for EPA 6010B QC batch 8J25060. See LCS.

The MS and/or MSD recoveries for Antimony were below acceptance limits due to sample matrix interference for EPA 6020 QC batch 8J26028. See LCS.

The MS and/or MSD recoveries for Arsenic, Barium, Beryllium, Chromium, Cobalt, Molybdenum, Nickel, Selenium, Thallium, Vanadium, and Zinc were below acceptance limits due to sample matrix interference for EPA 6020 QC batch 8J25063. See LCS.

Due to high levels of Aluminum, Calcium, Iron, Magnesium, Potassium, and Sodium in the source, samples 8J25060-MS1 and –MSD1 do not provide useful spike recovery information for EPA 6010B QC batch 8J25060. See LCS.

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THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

Client:	Brown and Caldwell	**Date Sampled:**	10/15/2008 to 10/16/2008
Project:	BP Yerington, NV, Soils	**Date Received:**	10/18/2008
Lab:	IRJ1929		

QA/QC CRITERIA: (Continued)

Due to high levels of Copper in the source, samples 8J25063-MS1 and –MSD1 do not provide useful spike recovery information for EPA 6020 QC batch 8J25063. See LCS.

Due to high levels of Mercury in the source, samples 8J23094-MS1 and –MSD1 do not provide useful spike recovery information for EPA 7471A QC batch 8J23094. See LCS.

The MS/MSD RPD for Boron, Calcium, Iron, Magnesium, Manganese, and Silicon exceeded the acceptance limits due to sample matrix effects for EPA 6010B QC batch 8J25060.

The MS/MSD RPD for Antimony exceeded the acceptance limits due to sample matrix effects for EPA 6020 QC batch 8J26028.

OBSERVATIONS:

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

Boron reporting limits were raised due to sample matrix effects for EPA 6010B samples IRJ1929-01, -03, -05, -08, -09, -11, -13, and –17.

Silicon reporting limits were raised due to sample matrix effects for EPA 6010B samples IRJ1929-02, -04, -06, -08, -10, -12, -14, and -16.

Beryllium, Cadmium, Silver, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 samples IRJ1929-01 and -13.

Antimony, Beryllium, Cadmium, Chromium, Silver, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IRJ1929-03.

Antimony, Beryllium, Cadmium, Silver, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 samples IRJ1929-05 and -17.

Antimony, Beryllium, Cadmium, Chromium, Selenium, Silver, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IRJ1929-07.

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THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

Client:	Brown and Caldwell	**Date Sampled:**	10/15/2008 to 10/16/2008
Project:	BP Yerington, NV, Soils	**Date Received:**	10/18/2008
Lab:	IRJ1929		

OBSERVATIONS: (Continued)

Antimony, Arsenic, Beryllium, Cadmium, Lead, Molybdenum, Selenium, Silver, and Thallium reporting limits were raised due to sample matrix effects for EPA 6020 sample IRJ1929-09.

Antimony, Beryllium, Cadmium, Chromium, Molybdenum, and Silver reporting limits were raised due to sample matrix effects for EPA 6020 sample IRJ1929-11.

Beryllium, Cadmium, Molybdenum, Selenium, and Silver reporting limits were raised due to sample matrix effects for EPA 6020 sample IRJ1929-14.

Antimony, Beryllium, Cadmium, Nickel, Silver, and Zinc reporting limits were raised due to sample matrix effects for EPA 6020 sample IRJ1929-15.

REVISION:

The report was revised on 12/19/08 to include dry-weight correction of sample results. The % Solids data used to calculate dry weight was determined by the TestAmerica-Richland, WA laboratory.

This data package includes raw data for samples –01 through –18 only.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

TestAmerica Irvine

Patty Mata
Project Manager
agm

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

The case narrative is an integral part of the report. This report shall not be reproduced, except in full, without written permission from TestAmerica.

Konstadina Vlahogiani

From: Patty Mata [Patty.Mata@testamericainc.com]
Sent: Monday, February 09, 2009 2:31 PM
To: Konstadina Vlahogiani
Subject: RE: Yerington IRJ1929

Dina,
The dept manager said there was a separate re-run for just Iron for the ICV. He said the original ICV1 was run #8 and the re-run for only Iron was run #12. The re-run result was 2.19 which was within 10% and was acceptable. Do you have this re-run?

Patty Mata
Project Manager

Test America
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17461 Derian Ave, Ste 100
Irvine, CA 92614
Tel 949-261-1022 | Fax 949-260-3297
www.testamericainc.com

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

---

From: Konstadina Vlahogiani [mailto:kvlahogiani@envstd.com]
Sent: Monday, February 09, 2009 10:53 AM
To: Patty Mata
Subject: FW: Yerington IRJ1929

Patty,

I have to issue the report for this SDG tomorrow. Is it possible to get an answer by then?

Thanks

Dina

From: Konstadina Vlahogiani
Sent: Friday, February 06, 2009 11:55 AM
To: 'Patty Mata'
Subject: Yerington IRJ1929

Patty,

In IRJ1929, the ICV analyzed on 11/3/08 at 9:12 (data file 081103-1) had a recovery for iron that exceeded the QC limits. According to the method if the results of the ICV are not within 10% of the expected value the lab must terminate the analysis, correct the problem, and recalibrate the instrument. Since no corrective action was taken I want to ask if the ICV is of a second source or the ICV and CCV are of the same source.

Thanks

TestAmerica
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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 soils

Sampled: 10/15/08-10/16/08
Received: 10/18/08
Revised: 12/19/08 10:13

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 applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. 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, 5 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

ADDITIONAL INFORMATION: This report was revised on 12/19/08 to include dry-weight correction of sample results. The % solids data used to calculate dry weight was determined by the TestAmerica-Richland, WA laboratory.

Level IV
1-18
only

LABORATORY ID	CLIENT ID	MATRIX
IRJ1929-01	OU4-UEP-36A-SC	Soil
IRJ1929-02	OU4-UEP-36B-SC	Soil
IRJ1929-03	OU4-UEP-37A-SC	Soil
IRJ1929-04	OU4-UEP-37B-SC	Soil
IRJ1929-05	OU4-UEP-40A-SC	Soil
IRJ1929-06	OU4-UEP-40B-SC	Soil
IRJ1929-07	OU4-LEP-26A-SC	Soil
IRJ1929-08	OU4-LEP-26B-SC	Soil
IRJ1929-09	OU4-LEP-19A-SC	Soil
IRJ1929-10	OU4-LEP-19B-SC	Soil
IRJ1929-11	OU4-UEP-38A-SC	Soil
IRJ1929-12	OU4-UEP-38B-SC	Soil
IRJ1929-13	OU4-UEP-38A-SC-FD	Soil
IRJ1929-14	OU4-UEP-38B-SC-FD	Soil
IRJ1929-15	OU4-UEP-39A-SC	Soil
IRJ1929-16	OU4-UEP-39B-SC	Soil
IRJ1929-17	OU4-UEP-43A-SC	Soil
IRJ1929-18	OU4-UEP-43B-SC	Soil
IRJ1929-19	OU4-UEP-44A-SC	Soil
IRJ1929-20	OU4-UEP-44B-SC	Soil
IRJ1929-21	OU4-UEP-44A-SC-FD	Soil
IRJ1929-22	OU4-UEP-44B-SC-FD	Soil
IRJ1929-23	OU4-UEP-45A-SC	Soil

TestAmerica Irvine

Patty Mata
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 soils

Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

LABORATORY ID	CLIENT ID	MATRIX
IRJ1929-24	OU4-UEP-45B-SC	Soil
IRJ1929-25	OU4-UEP-46A-SC	Soil
IRJ1929-26	OU4-UEP-46B-SC	Soil
IRJ1929-27	OU4-UEP-47A-SC	Soil
IRJ1929-28	OU4-UEP-47B-SC	Soil
IRJ1929-29	OU4-UEP-47C-SC	Soil
IRJ1929-30	OU4-UEP-47A-SC-FD	Soil
IRJ1929-31	OU4-UEP-47B-SC-FD	Soil
IRJ1929-32	OU4-UEP-47C-SC-FD	Soil
IRJ1929-33	OU4-UEP-42A-SC	Soil
IRJ1929-34	OU4-UEP-42B-SC	Soil
IRJ1929-35	OU4-UEP-42C-SC	Soil
IRJ1929-36	OU4-UEP-41A-SC	Soil
IRJ1929-37	OU4-UEP-41B-SC	Soil
IRJ1929-38	OU4-UEP-41C-SC	Soil
IRJ1929-39	OU4-UEP-35A-SC	Soil
IRJ1929-40	OU4-UEP-35B-SC	Soil

Reviewed By:

TestAmerica Irvine

Patty Mata
Project Manager

The results pertain only to the samples tested in the laboratory. This report shall not be reproduced, except in full, without written permission from TestAmerica.

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Chain of Custody Record

Project Name: OU4 Phase I
BP BU/AR Region/Enfos Segment:
State or Lead Regulatory Agency: EPA Region 9
Requested Due Date (mm/dd/yy): NA

IRVINE Soil Geochemical — COC # YER 2031C

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name:	Test America-Irvine	BP/AR Facility No.:		Consultant/Contractor:	Brown and Caldwell
Address:	Derian Avenue, Suite	BP/AR Facility Address:	Yerington, NV	Address:	3264 Goni Rd
	Irvine, CA 92614	Site Lat/Long:	NA		Carson City, NV 89706
Lab PM:	Patty Mata	California Global ID Nc	NA	Consultant/Contractor Project No.:	136259
Tele/Fax:	949-261-1022 (x213)	Enfos Project No.:	001KF-0193.	Consultant/Contractor PM:	Penny Bassett
BP/AR EBM:	Roy Thun	Provision or OOC (circle one)		Tele/Fax:	775-315-4343
Address:	6 Centerpoint Avenue	Phase/WBS:	32	Report Type & QC Level:	LEVEL 1 / 4
	La Palma, CA 90623	Sub Phase/Task:	03	E-mail EDD To:	skocsis@brwncald.com
Tele/Fax:	661-287-3855	Cost Element:	05	Invoice to:	Consultant or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: Metals (6010/6020)	Requested Analysis: Mercury (7471)	Sample Point Lat/Long and Comments
1	OU4-UEP-36A-SC	1320	10/15	X			IRJ 1929	1	X					X	X	0-1'
2	OU4-UEP-36B-SC	↓		X				1	X							1-3'
3	OU4-UEP-37A-SC	1405		X				1	X							0-1.5'
4	OU4-UEP-37B-SC	↓		X				1	X							1.5-3'
5	OU4-UEP-40A-SC	1430		X				1								0-1'
6	OU4-UEP-40B-SC	↓		X				1								1-3'
7	OU4-LEP-26A-SC	1515		X				1								0-0.25'
8	OU4-LEP-26B-SC	↓		X				1								1-3'
9	OU4-LEP-19A-SC	1605		X				1								0-1'
10	OU4-LEP-19B-SC	↓		X				1								1'8" - 3'

TB 10/20 1059

Sampler's Name:	Chad Haley
Sampler's Company:	Brown & Caldwell
Shipment Date:	10/17/08
Shipment Method:	FedEx Air Sat deliv
Shipment Tracking No:	8646 4326 1282

Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Chad Haley	10/15	1700	Penny Bassett	10/15	1700
Penny Bassett	10/17	1200		10/16	1200

Special Instructions:

23/EZ

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: ____°F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

CS

BP COC Rev. 5 10/11/2006

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Chain of Custody Record

Project Name: OU4 Phase I
BP BU/AR Region/Enfos Segment:
State or Lead Regulatory Agency: EPA Region 9
Requested Due Date (mm/dd/yy): NA

IRVINE Soil Geochemical — COC # YER 2632C

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name:	Test America-Irvine	BP/AR Facility No.:		Consultant/Contractor:	Brown and Caldwell
Address:	Derian Avenue, Suite	BP/AR Facility Address:	Yerington, NV	Address:	3264 Goni Rd
	Irvine, CA 92614	Site Lat/Long:	NA		Carson City, NV 89706
Lab PM:	Patty Mata	California Global ID No	NA	Consultant/Contractor Project No.:	136259
Tele/Fax:	949-261-1022 (x213)	Enfos Project No.:	001KF-0193	Consultant/Contractor PM:	Penny Bassett
BP/AR EBM:	Roy Thun	Provision or OOC (circle one)		Tele/Fax:	775-315-4343
Address:	6 Centerpoint Avenue	Phase/WBS:	32	Report Type & QC Level:	LEVEL 2 4
	La Palma, CA 90623	Sub Phase/Task:	03	E-mail EDD To:	skocsis@brwncald.com
Tele/Fax:	661-287-3855	Cost Element:	05	Invoice to: Consultant or BP or Atlantic Richfield Co. (circle one)	

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: Metals (6010/6020)	Requested Analysis: Mercury (7471)	Sample Point Lat/Long and Comments
1	~~OU4~~-UEP-38A-SC	0812	10/16	X				1	X					X	X	0-6"
2	OU4-UEP-38B-SC	↓	↓	↓				↓	↓					↓	↓	6"-3'
3	OU4-UEP-38A-SC-FD															0-6"
4	OU4-UEP-38B-SC-FD	↓														6"-3'
5	OU4-UEP-39A-SC	0850														0-1'
6	OU4-UEP-39B-SC	↓														1-3'
7	OU4-UEP-43A-SC	0910														0-1'
8	OU4-UEP-43B-SC	↓	↓	↓				↓	↓					↓	↓	1-3'
PB 9	~~OU4-UEP-44A-SC~~															
PB 10	~~OU4-UEP-44B-SC~~															

		Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:	Chad Haley						
Sampler's Company:	Brown & Caldwell	Penny Bassett	10/16	1700	Penny Bassett	10/16	1700
Shipment Date:	10/17/08		10/17	1200		10/16	1130
Shipment Method:	FedEx Air Sat deliv						
Shipment Tracking No:	8646432 6 1282						

Special Instructions:

2-4122

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: ____°F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP COC Rev. 5 10/11/2006

Atlantic Richfield Company
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Chain of Custody Record

Project Name: OU4 Phase I
BP BU/AR Region/Enfos Segment:
State or Lead Regulatory Agency: EPA Region 9
Requested Due Date (mm/dd/yy): NA

IRVINE Soil Geochemical

COC # YER 2033 C

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name:	Test America-Irvine	BP/AR Facility No.:		Consultant/Contractor:	Brown and Caldwell
Address:	Derian Avenue, Suite	BP/AR Facility Address:	Yerington, NV	Address:	3264 Goni Rd
	Irvine, CA 92614	Site Lat/Long:	NA		Carson City, NV 89706
Lab PM:	Patty Mata	California Global ID Nc	NA	Consultant/Contractor Project No.:	136259
Tele/Fax:	949-261-1022 (x213)	Enfos Project No.:	001KF-0193	Consultant/Contractor PM:	Penny Bassett
BP/AR EBM:	Roy Thun	Provision or OOC (circle one)		Tele/Fax:	775-315-4343
Address:	6 Centerpoint Avenue	Phase/WBS:	32	Report Type & QC Level:	LEVEL 2 4
	La Palma, CA 90623	Sub Phase/Task:	03	E-mail EDD To:	skocsis@brwncald.com
Tele/Fax:	661-287-3855	Cost Element:	05	Invoice to:	Consultant or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air		Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol		Requested Analysis: Metals (6010/6020)	Requested Analysis: Mercury (7471)								Sample Point Lat/Long and Comments
1	OU4-UEP-44A-SC	0940	10/16	X					1	X						X	X								0-4"
2	OU4-UEP-44B-SC	↓	↓	↓					↓	↓						↓	↓								4"-3'
3	OU4-UEP-44A-SC-FD	↓	↓	↓					↓	↓						↓	↓								0-4"
4	OU4-UEP-44B-SC-FD	↓	↓	↓					↓	↓						↓	↓								4"-3'
5	OU4-UEP-45A-SC	1005	↓	↓					↓	↓						↓	↓								0-1'
6	OU4-UEP-45B-SC	↓	↓	↓					↓	↓						↓	↓								1-3'
7	OU4-UEP-46A-SC	1030	↓	↓					↓	↓						↓	↓								0-1.5'
8	OU4-UEP-46B-SC	↓	↓	↓					↓	↓						↓	↓								1.5'-3'
9																									
10																									

		Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:	Chad Haley	[signature]	10/16	1700	Penny Bassett	10/16	1700
Sampler's Company:	Brown & Caldwell	Penny Bassett	10/17	1200	[signature]	10/18	1120
Shipment Date:	10/17/08						
Shipment Method:	FedEx Air Sat deliv						
Shipment Tracking No:	8646 4326 1282						

Special Instructions:

2-7112-2

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: ____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP COC Rev. 5 10/11/2006

11

Atlantic Richfield Company
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Chain of Custody Record

Project Name: OU4 Phase I
BP BU/AR Region/Enfos Segment:
State or Lead Regulatory Agency: EPA Region 9
Requested Due Date (mm/dd/yy): NA

IRVINE Soil Geochemical — COC # YER 2034C

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name:	Test America-Irvine	BP/AR Facility No.:		Consultant/Contractor:	Brown and Caldwell
Address:	Derian Avenue, Suite	BP/AR Facility Address:	Yerington, NV	Address:	3264 Goni Rd
	Irvine, CA 92614	Site Lat/Long:	NA		Carson City, NV 89706
Lab PM:	Patty Mata	California Global ID No	NA	Consultant/Contractor Project No.:	136259
Tele/Fax:	949-261-1022 (x213)	Enfos Project No.:	001KF-0193	Consultant/Contractor PM:	Penny Bassett
BP/AR EBM:	Roy Thun	Provision or OOC (circle one)		Tele/Fax:	775-315-4343
Address:	6 Centerpoint Avenue	Phase/WBS:	32	Report Type & QC Level:	LEVEL 2 4
	La Palma, CA 90623	Sub Phase/Task:	03	E-mail EDD To:	skocsis@brwncald.com
Tele/Fax:	661-287-3855	Cost Element:	05	Invoice to:	Consultant or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air	Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol	Requested Analysis: Metals (6010/6020)	Requested Analysis: Mercury (7471)	Sample Point Lat/Long and Comments
1	OU4-UEP-47A-SC	1055	10/16	X				1	X					X	X	0-3'
2	OU4-UEP-47B-SC	↓	↓	↓				↓	↓					↓	↓	3-6'
3	OU4-UEP-47C-SC															6-9'
4	OU4-UEP-47A-SC-FD															0-3'
5	OU4-UEP-47B-SC-FD															3-6'
6	OU4-UEP-47C-SC-FD	↓	↓	↓				↓	↓					↓	↓	6-9'
7	OU4-UEP-42A-SC	1350														0-4"
8	OU4-UEP-42B-SC	↓	↓	↓				↓	↓					↓	↓	4"-2.5'
9	OU4-UEP-42C-SC	↓	↓	↓				↓	↓					↓	↓	2.5-6'
10																

		Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:	Chad Haley	[signature]	10/16	1700	Penny Bassett	10/16	1700
Sampler's Company:	Brown & Caldwell	Penny Bassett	10/17	1200	[signature]	10/10	1124
Shipment Date:	10/17/08						
Shipment Method:	FedEx Air Sat Deliv						
Shipment Tracking No:	8646 4326 1282						

Special Instructions:

2.4122

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: ____°F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP COC Rev. 5 10/11/2006

Atlantic Richfield Company
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Chain of Custody Record

Project Name: OU4 Phase I
BP BU/AR Region/Enfos Segment:
State or Lead Regulatory Agency: EPA Region 9
Requested Due Date (mm/dd/yy): NA

IRVINE Soil Geochemical — COC # YER 2035C

On-site Time:	Temp:
Off-site Time:	Temp:
Sky Conditions:	
Meteorological Events:	
Wind Speed:	Direction:

Lab Name:	Test America-Irvine	BP/AR Facility No.:		Consultant/Contractor:	Brown and Caldwell
Address:	Derian Avenue, Suite	BP/AR Facility Address:	Yerington, NV	Address:	3264 Goni Rd
	Irvine, CA 92614	Site Lat/Long:	NA		Carson City, NV 89706
Lab PM:	Patty Mata	California Global ID Nc	NA	Consultant/Contractor Project No.:	136259
Tele/Fax:	949-261-1022 (x213)	Enfos Project No.:	001KF-0193	Consultant/Contractor PM:	Penny Bassett
BP/AR EBM:	Roy Thun	Provision or OOC (circle one)		Tele/Fax:	775-315-4343
Address:	6 Centerpoint Avenue	Phase/WBS:	32	Report Type & QC Level:	LEVEL (2) 4
	La Palma, CA 90623	Sub Phase/Task:	03	E-mail EDD To:	skocsis@brwncald.com
Tele/Fax:	661-287-3855	Cost Element:	05	Invoice to:	Consultant or BP or Atlantic Richfield Co. (circle one)

Lab Bottle Order No:

Item No.	Sample Description	Time	Date	Matrix: Soil/Solid	Matrix: Water/Liquid	Matrix: Air		Laboratory No.	No. of Containers	Preservative: Unpreserved	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: HCl	Preservative: Methanol		Requested Analysis: Metals (6010/6020)	Requested Analysis: Mercury (7471)								Sample Point Lat/Long and Comments
1	OU4-UEP-41A-SC	1425	10/16	X					1	X						X	X								0-6"
2	OU4-UEP-41B-SC	↓	↓	X					1	X						X	X								6"-2'
3	OU4-UEP-41C-SC	↓	↓	X					1	X						X	X								2-3'
4	OU4-UEP-35A-SC	1505	10/16	X					1	X						X	X								0-1.5'
5	OU4-UEP-35B-SC	↓	↓	X					1	X						X	X								1.5-3'
6																									
7																									
8																									
9																									
10																									

		Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:	Chad Haley	[signature]	10/16	1700	Penny Bassett	10/16	1700
Sampler's Company:	Brown & Caldwell	Penny Bassett	10/17	1200	[signature]	10/18	1120
Shipment Date:	10/17/08						
Shipment Method:	FedEx Air Sat. Deliv						
Shipment Tracking No:	8646 4326 1282						

Special Instructions:

2.3 12.2

Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: ____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

BP COC Rev. 5 10/11/2006

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 soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-01 (OU4-UEP-36A-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	23	140	**690**	5	10/25/08	10/30/08	M2, R-3
Sample ID: IRJ1929-02 (OU4-UEP-36B-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	22	140	**76**	5	10/25/08	10/30/08	RL1, J
Sample ID: IRJ1929-03 (OU4-UEP-37A-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	19	120	**240**	5	10/25/08	10/30/08	
Sample ID: IRJ1929-04 (OU4-UEP-37B-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	24	150	**52**	5	10/25/08	10/30/08	RL1, J
Sample ID: IRJ1929-05 (OU4-UEP-40A-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	44	280	**440**	10	10/25/08	11/03/08	
Sample ID: IRJ1929-06 (OU4-UEP-40B-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	23	150	**55**	5	10/25/08	10/30/08	RL1, J
Sample ID: IRJ1929-07 (OU4-LEP-26A-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	19	120	**210**	5	10/25/08	10/30/08	
Sample ID: IRJ1929-08 (OU4-LEP-26B-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	21	130	**36**	5	10/25/08	10/30/08	RL1, J
Sample ID: IRJ1929-09 (OU4-LEP-19A-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	22	140	**370**	5	10/25/08	10/30/08	
Sample ID: IRJ1929-10 (OU4-LEP-19B-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	22	140	**42**	5	10/25/08	10/30/08	RL1, J

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Brown and Caldwell - NV
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Attention: Penny Bassett

Project ID: BP Yerington soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-11 (OU4-UEP-38A-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	22	140	**280**	5	10/25/08	10/30/08	
Sample ID: IRJ1929-12 (OU4-UEP-38B-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	22	140	**85**	5	10/25/08	10/30/08	RL1, J
Sample ID: IRJ1929-13 (OU4-UEP-38A-SC-FD - Soil)					**Sampled: 10/16/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	22	140	**220**	5	10/25/08	10/30/08	
Sample ID: IRJ1929-14 (OU4-UEP-38B-SC-FD - Soil)					**Sampled: 10/16/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	22	140	**96**	5	10/25/08	10/30/08	RL1, J
Sample ID: IRJ1929-15 (OU4-UEP-39A-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	21	130	**250**	5	10/25/08	10/30/08	
Sample ID: IRJ1929-16 (OU4-UEP-39B-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	22	140	**82**	5	10/25/08	10/30/08	RL1, J
Sample ID: IRJ1929-17 (OU4-UEP-43A-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	21	130	**300**	5	10/25/08	10/30/08	
Sample ID: IRJ1929-18 (OU4-UEP-43B-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	4.0	25	**130**	1	10/25/08	10/30/08	
Sample ID: IRJ1929-19 (OU4-UEP-44A-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	37	230	**190**	10	10/25/08	10/30/08	RL1, J
Sample ID: IRJ1929-20 (OU4-UEP-44B-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: mg/kg as Silica dry									
Silicon	EPA 6010B	8J25060	22	140	ND	5	10/25/08	10/30/08	RL1

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-01 (OU4-UEP-36A-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25060	32	64	**3400**	5	10/25/08	10/30/08	MHA
Antimony	EPA 6020	8J26028	0.64	6.4	**1.0**	5	10/26/08	10/28/08	M2, R-3, J
Arsenic	EPA 6020	8J25063	2.3	3.2	**120**	5	10/25/08	10/31/08	M2
Barium	EPA 6020	8J25063	1.3	3.2	**68**	5	10/25/08	10/31/08	M2
Beryllium	EPA 6020	8J25063	0.64	1.9	ND	5	10/25/08	10/31/08	M2, RL1
Boron	EPA 6010B	8J25060	14	32	**20**	5	10/25/08	10/30/08	M2, RL1, J
Cadmium	EPA 6020	8J25063	0.39	3.2	ND	5	10/25/08	10/31/08	RL1
Calcium	EPA 6010B	8J25060	40	97	**46000**	5	10/25/08	10/30/08	B-1, MHA
Chromium	EPA 6020	8J25063	2.3	6.4	**13** B	5	10/25/08	10/31/08	M2
Cobalt	EPA 6020	8J25063	0.51	3.2	**7.3**	5	10/25/08	10/31/08	M2
Copper	EPA 6020	8J25063	2.4	6.4	**360**	5	10/25/08	10/31/08	MHA
Iron	EPA 6010B	8J25060	9.7	32	**180000**	5	10/25/08	10/30/08	MHA
Lead	EPA 6020	8J25063	0.97	3.2	**50**	5	10/25/08	10/31/08	
Magnesium	EPA 6010B	8J25060	6.4	64	**1700**	5	10/25/08	10/30/08	MHA
Manganese	EPA 6010B	8J25060	5.1	6.4	**130**	5	10/25/08	10/30/08	M2, R-3
Mercury	EPA 7471A	8J23094	0.015	0.026	**1.4**	1	10/23/08	10/23/08	MHA
Molybdenum	EPA 6020	8J25063	0.64	6.4	**32**	5	10/25/08	10/31/08	M2
Nickel	EPA 6020	8J25063	2.9	6.4	**9.4**	5	10/25/08	10/31/08	M2
Potassium	EPA 6010B	8J25060	240	640	**12000**	10	10/25/08	11/03/08	MHA
Selenium	EPA 6020	8J25063	0.97	6.4	**76**	5	10/25/08	10/31/08	M2
Silver	EPA 6020	8J25063	0.97	3.2	ND	5	10/25/08	10/31/08	RL1
Sodium	EPA 6010B	8J25060	310	640	**22000**	10	10/25/08	11/03/08	MHA
Thallium	EPA 6020	8J25063	0.64	3.2	**48**	5	10/25/08	11/01/08	M2
Vanadium	EPA 6020	8J25063	2.3	6.4	**58**	5	10/25/08	10/31/08	M2
Zinc	EPA 6020	8J25063	8.4	64	**19**	5	10/25/08	10/31/08	M2, RL1, J

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-02 (OU4-UEP-36B-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25060	32	63	**19000**	5	10/25/08	10/30/08	
Antimony	EPA 6020	8J26028	0.13	1.3	**0.46**	1	10/26/08	10/28/08	J
Arsenic	EPA 6020	8J25063	0.44	0.63	**49**	1	10/25/08	10/31/08	
Barium	EPA 6020	8J25063	0.25	0.63	**120**	1	10/25/08	10/31/08	
Beryllium	EPA 6020	8J25063	0.13	0.38	**0.35**	1	10/25/08	10/31/08	J
Boron	EPA 6010B	8J25060	13	32	**66**	5	10/25/08	10/30/08	
Cadmium	EPA 6020	8J25063	0.076	0.63	**0.092**	1	10/25/08	10/31/08	J
Calcium	EPA 6010B	8J25060	40	95	**11000**	5	10/25/08	10/30/08	B-1
Chromium	EPA 6020	8J25063	0.44	1.3	**12**	1	10/25/08	10/31/08	
Cobalt	EPA 6020	8J25063	0.10	0.63	**6.3**	1	10/25/08	10/31/08	
Copper	EPA 6020	8J25063	0.48	1.3	**280**	1	10/25/08	10/31/08	
Iron	EPA 6010B	8J25060	9.5	32	**42000**	5	10/25/08	10/30/08	
Lead	EPA 6020	8J25063	0.19	0.63	**9.8**	1	10/25/08	10/31/08	
Magnesium	EPA 6010B	8J25060	6.3	63	**5300**	5	10/25/08	10/30/08	
Manganese	EPA 6010B	8J25060	5.1	6.3	**250**	5	10/25/08	10/30/08	
Mercury	EPA 7471A	8J23094	0.015	0.025	**0.22**	1	10/23/08	10/23/08	
Molybdenum	EPA 6020	8J25063	0.13	1.3	**4.3**	1	10/25/08	10/31/08	
Nickel	EPA 6020	8J25063	0.57	1.3	**8.6**	1	10/25/08	10/31/08	
Potassium	EPA 6010B	8J25060	120	320	**5500**	5	10/25/08	11/03/08	
Selenium	EPA 6020	8J25063	0.19	1.3	**8.5**	1	10/25/08	10/31/08	
Silver	EPA 6020	8J25063	0.19	0.63	ND	1	10/25/08	10/31/08	
Sodium	EPA 6010B	8J25060	150	320	**3100**	5	10/25/08	11/03/08	
Thallium	EPA 6020	8J25063	0.13	0.63	**9.2**	1	10/25/08	11/01/08	
Vanadium	EPA 6020	8J25063	0.44	1.3	**38**	1	10/25/08	10/31/08	
Zinc	EPA 6020	8J25063	1.6	13	**40**	1	10/25/08	10/31/08	

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-03 (OU4-UEP-37A-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25060	27	54	**4600**	5	10/25/08	10/30/08	
Antimony	EPA 6020	8J26028	0.54	5.4	**0.77**	5	10/26/08	10/28/08	RL1, J
Arsenic	EPA 6020	8J25063	1.9	2.7	**23**	5	10/25/08	10/31/08	
Barium	EPA 6020	8J25063	1.1	2.7	**39**	5	10/25/08	10/31/08	
Beryllium	EPA 6020	8J25063	0.54	1.6	ND	5	10/25/08	10/31/08	RL1
Boron	EPA 6010B	8J25060	11	27	**13**	5	10/25/08	10/30/08	RL1, J
Cadmium	EPA 6020	8J25063	0.33	2.7	ND	5	10/25/08	10/31/08	RL1
Calcium	EPA 6010B	8J25060	34	81	**36000**	5	10/25/08	10/30/08	B-1
Chromium	EPA 6020	8J25063	1.9	5.4	**4.7** B	5	10/25/08	10/31/08	RL1, J
Cobalt	EPA 6020	8J25063	0.43	2.7	**13**	5	10/25/08	10/31/08	
Copper	EPA 6020	8J25063	2.1	5.4	**720**	5	10/25/08	10/31/08	
Iron	EPA 6010B	8J25060	8.1	27	**120000**	5	10/25/08	10/30/08	
Lead	EPA 6020	8J25063	0.81	2.7	**17**	5	10/25/08	10/31/08	
Magnesium	EPA 6010B	8J25060	5.4	54	**3700**	5	10/25/08	10/30/08	
Manganese	EPA 6010B	8J25060	4.3	5.4	**290**	5	10/25/08	10/30/08	
Mercury	EPA 7471A	8J23094	0.013	0.022	**0.48**	1	10/23/08	10/23/08	
Molybdenum	EPA 6020	8J25063	0.54	5.4	**8.7**	5	10/25/08	10/31/08	
Nickel	EPA 6020	8J25063	2.4	5.4	**14**	5	10/25/08	10/31/08	
Potassium	EPA 6010B	8J25060	100	270	**9500**	5	10/25/08	11/03/08	
Selenium	EPA 6020	8J25063	0.81	5.4	**9.1**	5	10/25/08	10/31/08	
Silver	EPA 6020	8J25063	0.81	2.7	ND	5	10/25/08	10/31/08	RL1
Sodium	EPA 6010B	8J25060	130	270	**17000**	5	10/25/08	11/03/08	
Thallium	EPA 6020	8J25063	0.54	2.7	**20**	5	10/25/08	11/01/08	
Vanadium	EPA 6020	8J25063	1.9	5.4	**28**	5	10/25/08	10/31/08	
Zinc	EPA 6020	8J25063	7.1	54	**38**	5	10/25/08	10/31/08	RL1, J

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-04 (OU4-UEP-37B-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25060	34	67	**22000**	5	10/25/08	10/30/08	
Antimony	EPA 6020	8J26028	0.13	1.3	**0.66**	1	10/26/08	10/28/08	J
Arsenic	EPA 6020	8J25063	0.47	0.67	**120**	1	10/25/08	10/31/08	
Barium	EPA 6020	8J25063	0.27	0.67	**150**	1	10/25/08	10/31/08	
Beryllium	EPA 6020	8J25063	0.13	0.40	**0.36**	1	10/25/08	10/31/08	J
Boron	EPA 6010B	8J25060	14	34	**52**	5	10/25/08	10/30/08	
Cadmium	EPA 6020	8J25063	0.081	0.67	**0.12**	1	10/25/08	10/31/08	J
Calcium	EPA 6010B	8J25060	42	100	**12000**	5	10/25/08	10/30/08	B-1
Chromium	EPA 6020	8J25063	0.47	1.3	**19**	1	10/25/08	10/31/08	
Cobalt	EPA 6020	8J25063	0.11	0.67	**9.2**	1	10/25/08	10/31/08	
Copper	EPA 6020	8J25063	0.51	1.3	**380**	1	10/25/08	10/31/08	
Iron	EPA 6010B	8J25060	10	34	**51000**	5	10/25/08	10/30/08	
Lead	EPA 6020	8J25063	0.20	0.67	**15**	1	10/25/08	10/31/08	
Magnesium	EPA 6010B	8J25060	6.7	67	**7200**	5	10/25/08	10/30/08	
Manganese	EPA 6010B	8J25060	5.4	6.7	**350**	5	10/25/08	10/30/08	
Mercury	EPA 7471A	8J23094	0.016	0.027	**0.81**	1	10/23/08	10/23/08	
Molybdenum	EPA 6020	8J25063	0.13	1.3	**20**	1	10/25/08	10/31/08	
Nickel	EPA 6020	8J25063	0.61	1.3	**12**	1	10/25/08	10/31/08	
Potassium	EPA 6010B	8J25060	130	340	**5200**	5	10/25/08	11/03/08	
Selenium	EPA 6020	8J25063	0.20	1.3	**8.7**	1	10/25/08	10/31/08	
Silver	EPA 6020	8J25063	0.20	0.67	ND	1	10/25/08	10/31/08	
Sodium	EPA 6010B	8J25060	160	340	**4300**	5	10/25/08	11/03/08	
Thallium	EPA 6020	8J25063	0.13	0.67	**13**	1	10/25/08	11/01/08	
Vanadium	EPA 6020	8J25063	0.47	1.3	**78**	1	10/25/08	10/31/08	
Zinc	EPA 6020	8J25063	1.7	13	**46**	1	10/25/08	10/31/08	

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-05 (OU4-UEP-40A-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25060	63	130	**2300**	10	10/25/08	11/03/08	
Antimony	EPA 6020	8J26028	0.63	6.3	**0.89**	5	10/26/08	10/28/08	RL1, J
Arsenic	EPA 6020	8J25063	2.2	3.1	**80**	5	10/25/08	10/31/08	
Barium	EPA 6020	8J25063	1.3	3.1	**60**	5	10/25/08	10/31/08	
Beryllium	EPA 6020	8J25063	0.63	1.9	ND	5	10/25/08	10/31/08	RL1
Boron	EPA 6010B	8J25060	26	63	ND	10	10/25/08	11/03/08	RL1
Cadmium	EPA 6020	8J25063	0.38	3.1	ND	5	10/25/08	10/31/08	RL1
Calcium	EPA 6010B	8J25060	79	190	**38000**	10	10/25/08	11/03/08	
Chromium	EPA 6020	8J25063	2.2	6.3	**8.0** B	5	10/25/08	10/31/08	
Cobalt	EPA 6020	8J25063	0.50	3.1	**7.5**	5	10/25/08	10/31/08	
Copper	EPA 6020	8J25063	2.4	6.3	**320**	5	10/25/08	10/31/08	
Iron	EPA 6010B	8J25060	19	63	**240000**	10	10/25/08	11/03/08	
Lead	EPA 6020	8J25063	0.94	3.1	**44**	5	10/25/08	10/31/08	
Magnesium	EPA 6010B	8J25060	13	130	**1400**	10	10/25/08	11/03/08	
Manganese	EPA 6010B	8J25060	10	13	**130**	10	10/25/08	11/03/08	
Mercury	EPA 7471A	8J23094	0.015	0.025	**1.3**	1	10/23/08	10/23/08	
Molybdenum	EPA 6020	8J25063	0.63	6.3	**15**	5	10/25/08	10/31/08	
Nickel	EPA 6020	8J25063	2.8	6.3	**12**	5	10/25/08	10/31/08	
Potassium	EPA 6010B	8J25060	240	630	**9000**	10	10/25/08	11/03/08	
Selenium	EPA 6020	8J25063	0.94	6.3	**25**	5	10/25/08	10/31/08	
Silver	EPA 6020	8J25063	0.94	3.1	ND	5	10/25/08	10/31/08	RL1
Sodium	EPA 6010B	8J25060	300	630	**28000**	10	10/25/08	11/03/08	
Thallium	EPA 6020	8J25063	0.63	3.1	**45**	5	10/25/08	11/01/08	
Vanadium	EPA 6020	8J25063	2.2	6.3	**33**	5	10/25/08	10/31/08	
Zinc	EPA 6020	8J25063	8.2	63	**21**	5	10/25/08	10/31/08	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 soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-06 (OU4-UEP-40B-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25060	33	67	**26000**	5	10/25/08	10/30/08	
Antimony	EPA 6020	8J26028	0.13	1.3	**0.53**	1	10/26/08	10/28/08	J
Arsenic	EPA 6020	8J25063	0.47	0.67	**110**	1	10/25/08	10/31/08	
Barium	EPA 6020	8J25063	0.27	0.67	**130**	1	10/25/08	10/31/08	
Beryllium	EPA 6020	8J25063	0.13	0.40	**0.38**	1	10/25/08	10/31/08	J
Boron	EPA 6010B	8J25060	14	33	**56**	5	10/25/08	10/30/08	
Cadmium	EPA 6020	8J25063	0.080	0.67	**0.083**	1	10/25/08	10/31/08	J
Calcium	EPA 6010B	8J25060	42	100	**13000**	5	10/25/08	10/30/08	B-1
Chromium	EPA 6020	8J25063	0.47	1.3	**17**	1	10/25/08	10/31/08	
Cobalt	EPA 6020	8J25063	0.11	0.67	**6.1**	1	10/25/08	10/31/08	
Copper	EPA 6020	8J25063	0.51	1.3	**240**	1	10/25/08	10/31/08	
Iron	EPA 6010B	8J25060	10	33	**58000**	5	10/25/08	10/30/08	
Lead	EPA 6020	8J25063	0.20	0.67	**14**	1	10/25/08	10/31/08	
Magnesium	EPA 6010B	8J25060	6.7	67	**7200**	5	10/25/08	10/30/08	
Manganese	EPA 6010B	8J25060	5.3	6.7	**280**	5	10/25/08	10/30/08	
Mercury	EPA 7471A	8J23094	0.016	0.027	**0.15**	1	10/23/08	10/23/08	
Molybdenum	EPA 6020	8J25063	0.13	1.3	**13**	1	10/25/08	10/31/08	
Nickel	EPA 6020	8J25063	0.60	1.3	**8.9**	1	10/25/08	10/31/08	
Potassium	EPA 6010B	8J25060	130	330	**6200**	5	10/25/08	11/03/08	
Selenium	EPA 6020	8J25063	0.20	1.3	**4.7**	1	10/25/08	10/31/08	
Silver	EPA 6020	8J25063	0.20	0.67	**0.39**	1	10/25/08	10/31/08	J
Sodium	EPA 6010B	8J25060	160	330	**3900**	5	10/25/08	11/03/08	
Thallium	EPA 6020	8J25063	0.13	0.67	**6.1**	1	10/25/08	11/01/08	
Vanadium	EPA 6020	8J25063	0.47	1.3	**54**	1	10/25/08	10/31/08	
Zinc	EPA 6020	8J25063	1.7	13	**44**	1	10/25/08	10/31/08	

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Brown and Caldwell - NV
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Attention: Penny Bassett

Project ID: BP Yerington soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-07 (OU4-LEP-26A-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25060	27	54	**4800**	5	10/25/08	10/30/08	
Antimony	EPA 6020	8J26028	0.54	5.4	ND	5	10/26/08	10/28/08	RL1
Arsenic	EPA 6020	8J25063	1.9	2.7	**3.5**	5	10/25/08	10/31/08	
Barium	EPA 6020	8J25063	1.1	2.7	**12**	5	10/25/08	10/31/08	
Beryllium	EPA 6020	8J25063	0.54	1.6	ND	5	10/25/08	10/31/08	RL1
Boron	EPA 6010B	8J25060	11	27	**57**	5	10/25/08	10/30/08	
Cadmium	EPA 6020	8J25063	0.32	2.7	ND	5	10/25/08	10/31/08	RL1
Calcium	EPA 6010B	8J25060	34	81	**47000**	5	10/25/08	10/30/08	B-1
Chromium	EPA 6020	8J25063	1.9	5.4	**3.8** B	5	10/25/08	10/31/08	RL1, J
Cobalt	EPA 6020	8J25063	0.43	2.7	**7.8**	5	10/25/08	10/31/08	
Copper	EPA 6020	8J25063	2.0	5.4	**160**	5	10/25/08	10/31/08	
Iron	EPA 6010B	8J25060	8.1	27	**160000**	5	10/25/08	10/30/08	
Lead	EPA 6020	8J25063	0.81	2.7	**3.2**	5	10/25/08	10/31/08	
Magnesium	EPA 6010B	8J25060	5.4	54	**4300**	5	10/25/08	10/30/08	
Manganese	EPA 6010B	8J25060	4.3	5.4	**310**	5	10/25/08	10/30/08	
Mercury	EPA 7471A	8J23094	0.013	0.022	**0.081**	1	10/23/08	10/23/08	
Molybdenum	EPA 6020	8J25063	0.54	5.4	**11**	5	10/25/08	10/31/08	
Nickel	EPA 6020	8J25063	2.4	5.4	**11**	5	10/25/08	10/31/08	
Potassium	EPA 6010B	8J25060	200	540	**9100**	10	10/25/08	11/03/08	
Selenium	EPA 6020	8J25063	0.81	5.4	**1.5**	5	10/25/08	10/31/08	RL1, J
Silver	EPA 6020	8J25063	0.81	2.7	ND	5	10/25/08	10/31/08	RL1
Sodium	EPA 6010B	8J25060	260	540	**21000**	10	10/25/08	11/03/08	
Thallium	EPA 6020	8J25063	0.54	2.7	**6.5**	5	10/25/08	11/01/08	
Vanadium	EPA 6020	8J25063	1.9	5.4	**26**	5	10/25/08	10/31/08	
Zinc	EPA 6020	8J25063	7.0	54	**11**	5	10/25/08	10/31/08	RL1, J

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Attention: Penny Bassett

Project ID: BP Yerington soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-08 (OU4-LEP-26B-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25060	29	59	**16000**	5	10/25/08	10/30/08	
Antimony	EPA 6020	8J26028	0.12	1.2	**0.40**	1	10/26/08	10/28/08	J
Arsenic	EPA 6020	8J25063	0.41	0.59	**7.0**	1	10/25/08	10/31/08	
Barium	EPA 6020	8J25063	0.24	0.59	**91**	1	10/25/08	10/31/08	
Beryllium	EPA 6020	8J25063	0.12	0.35	**0.30**	1	10/25/08	10/31/08	J
Boron	EPA 6010B	8J25060	12	29	**12**	5	10/25/08	10/30/08	RL1, J
Cadmium	EPA 6020	8J25063	0.071	0.59	ND	1	10/25/08	10/31/08	
Calcium	EPA 6010B	8J25060	37	88	**6500**	5	10/25/08	10/30/08	B-1
Chromium	EPA 6020	8J25063	0.41	1.2	**13**	1	10/25/08	10/31/08	
Cobalt	EPA 6020	8J25063	0.094	0.59	**5.3**	1	10/25/08	10/31/08	
Copper	EPA 6020	8J25063	0.45	1.2	**74**	1	10/25/08	10/31/08	
Iron	EPA 6010B	8J25060	8.8	29	**36000**	5	10/25/08	10/30/08	
Lead	EPA 6020	8J25063	0.18	0.59	**7.1**	1	10/25/08	10/31/08	
Magnesium	EPA 6010B	8J25060	5.9	59	**4700**	5	10/25/08	10/30/08	
Manganese	EPA 6010B	8J25060	4.7	5.9	**190**	5	10/25/08	10/30/08	
Mercury	EPA 7471A	8J23094	0.014	0.024	**0.040**	1	10/23/08	10/23/08	
Molybdenum	EPA 6020	8J25063	0.12	1.2	**1.6**	1	10/25/08	10/31/08	
Nickel	EPA 6020	8J25063	0.53	1.2	**8.6**	1	10/25/08	10/31/08	
Potassium	EPA 6010B	8J25060	110	290	**3900**	5	10/25/08	11/03/08	
Selenium	EPA 6020	8J25063	0.18	1.2	**0.51**	1	10/25/08	10/31/08	J
Silver	EPA 6020	8J25063	0.18	0.59	ND	1	10/25/08	10/31/08	
Sodium	EPA 6010B	8J25060	140	290	**2000**	5	10/25/08	11/03/08	
Thallium	EPA 6020	8J25063	0.12	0.59	**0.23**	1	10/25/08	11/01/08	J
Vanadium	EPA 6020	8J25063	0.41	1.2	**40**	1	10/25/08	10/31/08	
Zinc	EPA 6020	8J25063	1.5	12	**33**	1	10/25/08	10/31/08	

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Attention: Penny Bassett

Project ID: BP Yerington soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-09 (OU4-LEP-19A-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25060	31	62	**12000**	5	10/25/08	10/30/08	
Antimony	EPA 6020	8J26028	0.62	6.2	ND	5	10/26/08	10/28/08	RL1
Arsenic	EPA 6020	8J25063	2.2	3.1	**2.5**	5	10/25/08	10/31/08	RL1, J
Barium	EPA 6020	8J25063	1.2	3.1	**22**	5	10/25/08	10/31/08	
Beryllium	EPA 6020	8J25063	0.62	1.9	**0.79**	5	10/25/08	10/31/08	RL1, J
Boron	EPA 6010B	8J25060	13	31	ND	5	10/25/08	10/30/08	RL1
Cadmium	EPA 6020	8J25063	0.37	3.1	ND	5	10/25/08	10/31/08	RL1
Calcium	EPA 6010B	8J25060	39	93	**32000**	5	10/25/08	10/30/08	B-1
Chromium	EPA 6020	8J25063	2.2	6.2	**9.8**	5	10/25/08	10/31/08	
Cobalt	EPA 6020	8J25063	0.50	3.1	**88**	5	10/25/08	10/31/08	
Copper	EPA 6020	8J25063	2.4	6.2	**2800**	5	10/25/08	10/31/08	
Iron	EPA 6010B	8J25060	9.3	31	**96000**	5	10/25/08	10/30/08	
Lead	EPA 6020	8J25063	0.93	3.1	**1.7**	5	10/25/08	10/31/08	RL1, J
Magnesium	EPA 6010B	8J25060	6.2	62	**12000**	5	10/25/08	10/30/08	
Manganese	EPA 6010B	8J25060	5.0	6.2	**800**	5	10/25/08	10/30/08	
Mercury	EPA 7471A	8J23094	0.015	0.025	**0.065**	1	10/23/08	10/23/08	
Molybdenum	EPA 6020	8J25063	0.62	6.2	ND	5	10/25/08	10/31/08	RL1
Nickel	EPA 6020	8J25063	2.8	6.2	**46**	5	10/25/08	10/31/08	
Potassium	EPA 6010B	8J25060	120	310	**1200**	5	10/25/08	11/03/08	
Selenium	EPA 6020	8J25063	0.93	6.2	**1.3**	5	10/25/08	10/31/08	RL1, J
Silver	EPA 6020	8J25063	0.93	3.1	ND	5	10/25/08	10/31/08	RL1
Sodium	EPA 6010B	8J25060	150	310	**11000**	5	10/25/08	11/03/08	
Thallium	EPA 6020	8J25063	0.62	3.1	ND	5	10/25/08	11/01/08	RL1
Vanadium	EPA 6020	8J25063	2.2	6.2	**28**	5	10/25/08	10/31/08	
Zinc	EPA 6020	8J25063	8.1	62	**120**	5	10/25/08	10/31/08	

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Project ID: BP Yerington soils
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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-10 (OU4-LEP-19B-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25060	31	62	**37000**	5	10/25/08	10/30/08	
Antimony	EPA 6020	8J26028	0.12	1.2	**0.46**	1	10/26/08	10/28/08	J
Arsenic	EPA 6020	8J25063	0.43	0.62	**14**	1	10/25/08	10/31/08	
Barium	EPA 6020	8J25063	0.25	0.62	**89**	1	10/25/08	10/31/08	
Beryllium	EPA 6020	8J25063	0.12	0.37	**1.3**	1	10/25/08	10/31/08	
Boron	EPA 6010B	8J25060	13	31	**34**	5	10/25/08	10/30/08	
Cadmium	EPA 6020	8J25063	0.074	0.62	**0.26**	1	10/25/08	10/31/08	J
Calcium	EPA 6010B	8J25060	39	93	**8300**	5	10/25/08	10/30/08	B-1
Chromium	EPA 6020	8J25063	0.43	1.2	**25**	1	10/25/08	10/31/08	
Cobalt	EPA 6020	8J25063	0.099	0.62	**29**	1	10/25/08	10/31/08	
Copper	EPA 6020	8J25063	4.7	12	**1000**	10	10/25/08	10/31/08	
Iron	EPA 6010B	8J25060	9.3	31	**42000**	5	10/25/08	10/30/08	
Lead	EPA 6020	8J25063	0.19	0.62	**9.8**	1	10/25/08	10/31/08	
Magnesium	EPA 6010B	8J25060	6.2	62	**14000**	5	10/25/08	10/30/08	
Manganese	EPA 6010B	8J25060	4.9	6.2	**710**	5	10/25/08	10/30/08	
Mercury	EPA 7471A	8J23094	0.015	0.025	**0.032**	1	10/23/08	10/23/08	
Molybdenum	EPA 6020	8J25063	0.12	1.2	**1.5**	1	10/25/08	10/31/08	
Nickel	EPA 6020	8J25063	0.56	1.2	**26**	1	10/25/08	10/31/08	
Potassium	EPA 6010B	8J25060	120	310	**6200**	5	10/25/08	11/03/08	
Selenium	EPA 6020	8J25063	0.19	1.2	**0.48**	1	10/25/08	10/31/08	J
Silver	EPA 6020	8J25063	0.19	0.62	**0.24**	1	10/25/08	10/31/08	J
Sodium	EPA 6010B	8J25060	150	310	**900**	5	10/25/08	11/03/08	
Thallium	EPA 6020	8J25063	0.12	0.62	**0.26**	1	10/25/08	11/01/08	J
Vanadium	EPA 6020	8J25063	0.43	1.2	**160**	1	10/25/08	10/31/08	
Zinc	EPA 6020	8J25063	1.6	12	**89**	1	10/25/08	10/31/08	

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METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-11 (OU4-UEP-38A-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25060	31	62	**4300**	5	10/25/08	10/30/08	
Antimony	EPA 6020	8J26028	0.62	6.2	**0.70**	5	10/26/08	10/28/08	RL1, J
Arsenic	EPA 6020	8J25063	2.2	3.1	**23**	5	10/25/08	10/31/08	
Barium	EPA 6020	8J25063	1.2	3.1	**42**	5	10/25/08	10/31/08	
Beryllium	EPA 6020	8J25063	0.62	1.9	ND	5	10/25/08	10/31/08	RL1
Boron	EPA 6010B	8J25060	13	31	**16**	5	10/25/08	10/30/08	RL1, J
Cadmium	EPA 6020	8J25063	0.37	3.1	ND	5	10/25/08	10/31/08	RL1
Calcium	EPA 6010B	8J25060	39	94	**48000**	5	10/25/08	10/30/08	B-1
Chromium	EPA 6020	8J25063	2.2	6.2	**5.9** B	5	10/25/08	10/31/08	RL1, J
Cobalt	EPA 6020	8J25063	0.50	3.1	**6.9**	5	10/25/08	10/31/08	
Copper	EPA 6020	8J25063	2.4	6.2	**540**	5	10/25/08	10/31/08	
Iron	EPA 6010B	8J25060	9.4	31	**130000**	5	10/25/08	10/30/08	
Lead	EPA 6020	8J25063	0.94	3.1	**12**	5	10/25/08	10/31/08	
Magnesium	EPA 6010B	8J25060	6.2	62	**2300**	5	10/25/08	10/30/08	
Manganese	EPA 6010B	8J25060	5.0	6.2	**150**	5	10/25/08	10/30/08	
Mercury	EPA 7471A	8J23094	0.015	0.025	**0.39**	1	10/23/08	10/23/08	
Molybdenum	EPA 6020	8J25063	0.62	6.2	**6.1**	5	10/25/08	10/31/08	RL1, J
Nickel	EPA 6020	8J25063	2.8	6.2	**6.9**	5	10/25/08	10/31/08	
Potassium	EPA 6010B	8J25060	120	310	**7900**	5	10/25/08	11/03/08	
Selenium	EPA 6020	8J25063	0.94	6.2	**6.6**	5	10/25/08	10/31/08	
Silver	EPA 6020	8J25063	0.94	3.1	ND	5	10/25/08	10/31/08	RL1
Sodium	EPA 6010B	8J25060	150	310	**16000**	5	10/25/08	11/03/08	
Thallium	EPA 6020	8J25063	0.62	3.1	**14**	5	10/25/08	11/01/08	
Vanadium	EPA 6020	8J25063	2.2	6.2	**44**	5	10/25/08	10/31/08	
Zinc	EPA 6020	8J25063	8.1	62	**140**	5	10/25/08	10/31/08	

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

Project ID: BP Yerington soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-12 (OU4-UEP-38B-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25060	31	63	**25000**	5	10/25/08	10/30/08	
Antimony	EPA 6020	8J26028	0.13	1.3	**0.45**	1	10/26/08	10/28/08	J
Arsenic	EPA 6020	8J25063	0.44	0.63	**67**	1	10/25/08	10/31/08	
Barium	EPA 6020	8J25063	0.25	0.63	**130**	1	10/25/08	10/31/08	
Beryllium	EPA 6020	8J25063	0.13	0.38	**0.38**	1	10/25/08	10/31/08	
Boron	EPA 6010B	8J25060	13	31	**36**	5	10/25/08	10/30/08	
Cadmium	EPA 6020	8J25063	0.076	0.63	**0.086**	1	10/25/08	10/31/08	J
Calcium	EPA 6010B	8J25060	39	94	**9700**	5	10/25/08	10/30/08	B-1
Chromium	EPA 6020	8J25063	0.44	1.3	**18**	1	10/25/08	10/31/08	
Cobalt	EPA 6020	8J25063	0.10	0.63	**7.7**	1	10/25/08	10/31/08	
Copper	EPA 6020	8J25063	0.48	1.3	**320**	1	10/25/08	10/31/08	
Iron	EPA 6010B	8J25060	9.4	31	**63000**	5	10/25/08	10/30/08	
Lead	EPA 6020	8J25063	0.19	0.63	**11**	1	10/25/08	10/31/08	
Magnesium	EPA 6010B	8J25060	6.3	63	**7800**	5	10/25/08	10/30/08	
Manganese	EPA 6010B	8J25060	5.0	6.3	**300**	5	10/25/08	10/30/08	
Mercury	EPA 7471A	8J23094	0.015	0.025	**0.14**	1	10/23/08	10/23/08	
Molybdenum	EPA 6020	8J25063	0.13	1.3	**4.0**	1	10/25/08	10/31/08	
Nickel	EPA 6020	8J25063	0.57	1.3	**12**	1	10/25/08	10/31/08	
Potassium	EPA 6010B	8J25060	120	310	**5400**	5	10/25/08	11/03/08	
Selenium	EPA 6020	8J25063	0.19	1.3	**1.9**	1	10/25/08	10/31/08	
Silver	EPA 6020	8J25063	0.19	0.63	ND	1	10/25/08	10/31/08	
Sodium	EPA 6010B	8J25060	150	310	**5100**	5	10/25/08	11/03/08	
Thallium	EPA 6020	8J25063	0.13	0.63	**3.1**	1	10/25/08	11/01/08	
Vanadium	EPA 6020	8J25063	0.44	1.3	**66**	1	10/25/08	10/31/08	
Zinc	EPA 6020	8J25063	1.6	13	**45**	1	10/25/08	10/31/08	

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

Project ID: BP Yerington soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-13 (OU4-UEP-38A-SC-FD - Soil)					**Sampled: 10/16/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25060	31	63	**3900**	5	10/25/08	10/30/08	
Antimony	EPA 6020	8J26028	0.63	6.3	**0.65**	5	10/26/08	10/28/08	RL1, J
Arsenic	EPA 6020	8J25063	2.2	3.1	**43**	5	10/25/08	10/31/08	
Barium	EPA 6020	8J25063	1.3	3.1	**51**	5	10/25/08	10/31/08	
Beryllium	EPA 6020	8J25063	0.63	1.9	ND	5	10/25/08	10/31/08	RL1
Boron	EPA 6010B	8J25060	13	31	**22**	5	10/25/08	10/30/08	RL1, J
Cadmium	EPA 6020	8J25063	0.38	3.1	ND	5	10/25/08	10/31/08	RL1
Calcium	EPA 6010B	8J25060	39	94	**38000**	5	10/25/08	10/30/08	B-1
Chromium	EPA 6020	8J25063	2.2	6.3	**7.1** B	5	10/25/08	10/31/08	
Cobalt	EPA 6020	8J25063	0.50	3.1	**7.4**	5	10/25/08	10/31/08	
Copper	EPA 6020	8J25063	2.4	6.3	**540**	5	10/25/08	10/31/08	
Iron	EPA 6010B	8J25060	19	63	**190000**	10	10/25/08	11/03/08	
Lead	EPA 6020	8J25063	0.94	3.1	**25**	5	10/25/08	10/31/08	
Magnesium	EPA 6010B	8J25060	6.3	63	**2200**	5	10/25/08	10/30/08	
Manganese	EPA 6010B	8J25060	5.0	6.3	**170**	5	10/25/08	10/30/08	
Mercury	EPA 7471A	8J23094	0.015	0.025	**0.62**	1	10/23/08	10/23/08	
Molybdenum	EPA 6020	8J25063	0.63	6.3	**9.0**	5	10/25/08	10/31/08	
Nickel	EPA 6020	8J25063	2.8	6.3	**8.7**	5	10/25/08	10/31/08	
Potassium	EPA 6010B	8J25060	240	630	**9700**	10	10/25/08	11/03/08	
Selenium	EPA 6020	8J25063	0.94	6.3	**12**	5	10/25/08	10/31/08	
Silver	EPA 6020	8J25063	0.94	3.1	ND	5	10/25/08	10/31/08	RL1
Sodium	EPA 6010B	8J25060	300	630	**21000**	10	10/25/08	11/03/08	
Thallium	EPA 6020	8J25063	0.63	3.1	**24**	5	10/25/08	11/01/08	
Vanadium	EPA 6020	8J25063	2.2	6.3	**45**	5	10/25/08	10/31/08	
Zinc	EPA 6020	8J25063	8.2	63	**24**	5	10/25/08	10/31/08	RL1, J

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

Project ID: BP Yerington soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-14 (OU4-UEP-38B-SC-FD - Soil)					**Sampled: 10/16/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25060	32	64	**24000**	5	10/25/08	10/30/08	
Antimony	EPA 6020	8J26028	0.13	1.3	**0.44**	1	10/26/08	10/28/08	J
Arsenic	EPA 6020	8J25063	2.2	3.2	**70**	5	10/25/08	10/31/08	
Barium	EPA 6020	8J25063	1.3	3.2	**150**	5	10/25/08	10/31/08	
Beryllium	EPA 6020	8J25063	0.64	1.9	ND	5	10/25/08	10/31/08	RL1
Boron	EPA 6010B	8J25060	13	32	**40**	5	10/25/08	10/30/08	
Cadmium	EPA 6020	8J25063	0.38	3.2	ND	5	10/25/08	10/31/08	RL1
Calcium	EPA 6010B	8J25060	40	96	**13000**	5	10/25/08	10/30/08	B-1
Chromium	EPA 6020	8J25063	2.2	6.4	**23**	5	10/25/08	10/31/08	
Cobalt	EPA 6020	8J25063	0.51	3.2	**9.7**	5	10/25/08	10/31/08	
Copper	EPA 6020	8J25063	2.4	6.4	**390**	5	10/25/08	10/31/08	
Iron	EPA 6010B	8J25060	9.6	32	**62000**	5	10/25/08	10/30/08	
Lead	EPA 6020	8J25063	0.96	3.2	**13**	5	10/25/08	10/31/08	
Magnesium	EPA 6010B	8J25060	6.4	64	**7300**	5	10/25/08	10/30/08	
Manganese	EPA 6010B	8J25060	5.1	6.4	**280**	5	10/25/08	10/30/08	
Mercury	EPA 7471A	8J23094	0.015	0.026	**0.10**	1	10/23/08	10/23/08	
Molybdenum	EPA 6020	8J25063	0.64	6.4	**4.7**	5	10/25/08	10/31/08	RL1, J
Nickel	EPA 6020	8J25063	2.9	6.4	**15**	5	10/25/08	10/31/08	
Potassium	EPA 6010B	8J25060	120	320	**5400**	5	10/25/08	11/03/08	
Selenium	EPA 6020	8J25063	0.96	6.4	**3.6**	5	10/25/08	10/31/08	RL1, J
Silver	EPA 6020	8J25063	0.96	3.2	ND	5	10/25/08	10/31/08	RL1
Sodium	EPA 6010B	8J25060	150	320	**5300**	5	10/25/08	11/03/08	
Thallium	EPA 6020	8J25063	0.64	3.2	**7.1**	5	10/25/08	11/01/08	
Vanadium	EPA 6020	8J25063	2.2	6.4	**69**	5	10/25/08	10/31/08	
Zinc	EPA 6020	8J25063	8.3	64	**84**	5	10/25/08	10/31/08	

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Brown and Caldwell - NV
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Attention: Penny Bassett

Project ID: BP Yerington soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-15 (OU4-UEP-39A-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25060	31	61	**7600**	5	10/25/08	10/30/08	
Antimony	EPA 6020	8J26028	0.61	6.1	ND	5	10/26/08	10/28/08	RL1
Arsenic	EPA 6020	8J25063	2.1	3.1	**65**	5	10/25/08	10/31/08	
Barium	EPA 6020	8J25063	1.2	3.1	**50**	5	10/25/08	10/31/08	
Beryllium	EPA 6020	8J25063	0.61	1.8	ND	5	10/25/08	10/31/08	RL1
Boron	EPA 6010B	8J25060	13	31	**43**	5	10/25/08	10/30/08	
Cadmium	EPA 6020	8J25063	0.37	3.1	ND	5	10/25/08	10/31/08	RL1
Calcium	EPA 6010B	8J25060	38	92	**31000**	5	10/25/08	10/30/08	B-1
Chromium	EPA 6020	8J25063	2.1	6.1	**8.6** B	5	10/25/08	10/31/08	
Cobalt	EPA 6020	8J25063	0.49	3.1	**4.8**	5	10/25/08	10/31/08	
Copper	EPA 6020	8J25063	2.3	6.1	**330**	5	10/25/08	10/31/08	
Iron	EPA 6010B	8J25060	18	61	**190000**	10	10/25/08	11/03/08	
Lead	EPA 6020	8J25063	0.92	3.1	**14**	5	10/25/08	10/31/08	
Magnesium	EPA 6010B	8J25060	6.1	61	**2400**	5	10/25/08	10/30/08	
Manganese	EPA 6010B	8J25060	4.9	6.1	**150**	5	10/25/08	10/30/08	
Mercury	EPA 7471A	8J23094	0.015	0.024	**0.53**	1	10/23/08	10/23/08	
Molybdenum	EPA 6020	8J25063	0.61	6.1	**7.6**	5	10/25/08	10/31/08	
Nickel	EPA 6020	8J25063	2.8	6.1	**4.8**	5	10/25/08	10/31/08	RL1, J
Potassium	EPA 6010B	8J25060	230	610	**9700**	10	10/25/08	11/03/08	
Selenium	EPA 6020	8J25063	0.92	6.1	**17**	5	10/25/08	10/31/08	
Silver	EPA 6020	8J25063	0.92	3.1	ND	5	10/25/08	10/31/08	RL1
Sodium	EPA 6010B	8J25060	290	610	**20000**	10	10/25/08	11/03/08	
Thallium	EPA 6020	8J25063	0.61	3.1	**30**	5	10/25/08	11/01/08	
Vanadium	EPA 6020	8J25063	2.1	6.1	**39**	5	10/25/08	10/31/08	
Zinc	EPA 6020	8J25063	7.9	61	**37**	5	10/25/08	10/31/08	RL1, J

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Brown and Caldwell - NV
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Attention: Penny Bassett

Project ID: BP Yerington soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-16 (OU4-UEP-39B-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25060	31	63	**23000**	5	10/25/08	10/30/08	
Antimony	EPA 6020	8J26028	0.13	1.3	**0.39**	1	10/26/08	10/28/08	J
Arsenic	EPA 6020	8J25063	0.44	0.63	**46**	1	10/25/08	10/31/08	
Barium	EPA 6020	8J25063	0.25	0.63	**110**	1	10/25/08	10/31/08	
Beryllium	EPA 6020	8J25063	0.13	0.38	**0.30**	1	10/25/08	10/31/08	J
Boron	EPA 6010B	8J25060	13	31	**58**	5	10/25/08	10/30/08	
Cadmium	EPA 6020	8J25063	0.076	0.63	ND	1	10/25/08	10/31/08	
Calcium	EPA 6010B	8J25060	39	94	**12000**	5	10/25/08	10/30/08	B-1
Chromium	EPA 6020	8J25063	0.44	1.3	**12**	1	10/25/08	10/31/08	
Cobalt	EPA 6020	8J25063	0.10	0.63	**5.0**	1	10/25/08	10/31/08	
Copper	EPA 6020	8J25063	0.48	1.3	**210**	1	10/25/08	10/31/08	
Iron	EPA 6010B	8J25060	9.4	31	**60000**	5	10/25/08	10/30/08	
Lead	EPA 6020	8J25063	0.19	0.63	**10**	1	10/25/08	10/31/08	
Magnesium	EPA 6010B	8J25060	6.3	63	**6100**	5	10/25/08	10/30/08	
Manganese	EPA 6010B	8J25060	5.0	6.3	**230**	5	10/25/08	10/30/08	
Mercury	EPA 7471A	8J23094	0.015	0.025	**0.15**	1	10/23/08	10/23/08	
Molybdenum	EPA 6020	8J25063	0.13	1.3	**1.8**	1	10/25/08	10/31/08	
Nickel	EPA 6020	8J25063	0.57	1.3	**8.7**	1	10/25/08	10/31/08	
Potassium	EPA 6010B	8J25060	120	310	**5800**	5	10/25/08	11/03/08	
Selenium	EPA 6020	8J25063	0.19	1.3	**1.8**	1	10/25/08	10/31/08	
Silver	EPA 6020	8J25063	0.19	0.63	ND	1	10/25/08	10/31/08	
Sodium	EPA 6010B	8J25060	150	310	**4300**	5	10/25/08	11/03/08	
Thallium	EPA 6020	8J25063	0.13	0.63	**3.7**	1	10/25/08	11/01/08	
Vanadium	EPA 6020	8J25063	0.44	1.3	**47**	1	10/25/08	10/31/08	
Zinc	EPA 6020	8J25063	1.6	13	**36**	1	10/25/08	10/31/08	

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Project ID: BP Yerington soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-17 (OU4-UEP-43A-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25060	31	61	**3000**	5	10/25/08	10/30/08	
Antimony	EPA 6020	8J26028	0.61	6.1	**0.75**	5	10/26/08	10/28/08	RL1, J
Arsenic	EPA 6020	8J25063	2.1	3.1	**71**	5	10/25/08	10/31/08	
Barium	EPA 6020	8J25063	1.2	3.1	**55**	5	10/25/08	10/31/08	
Beryllium	EPA 6020	8J25063	0.61	1.8	ND	5	10/25/08	10/31/08	RL1
Boron	EPA 6010B	8J25060	13	31	**23**	5	10/25/08	10/30/08	RL1, J
Cadmium	EPA 6020	8J25063	0.37	3.1	ND	5	10/25/08	10/31/08	RL1
Calcium	EPA 6010B	8J25060	38	92	**41000**	5	10/25/08	10/30/08	B-1
Chromium	EPA 6020	8J25063	2.1	6.1	**9.8** 3	5	10/25/08	10/31/08	
Cobalt	EPA 6020	8J25063	0.49	3.1	**6.0**	5	10/25/08	10/31/08	
Copper	EPA 6020	8J25063	2.3	6.1	**230**	5	10/25/08	10/31/08	
Iron	EPA 6010B	8J25060	18	61	**200000**	10	10/25/08	11/03/08	
Lead	EPA 6020	8J25063	0.92	3.1	**46**	5	10/25/08	10/31/08	
Magnesium	EPA 6010B	8J25060	6.1	61	**1800**	5	10/25/08	10/30/08	
Manganese	EPA 6010B	8J25060	4.9	6.1	**120**	5	10/25/08	10/30/08	
Mercury	EPA 7471A	8J23094	0.015	0.025	**1.2**	1	10/23/08	10/23/08	
Molybdenum	EPA 6020	8J25063	0.61	6.1	**13**	5	10/25/08	10/31/08	
Nickel	EPA 6020	8J25063	2.8	6.1	**8.2**	5	10/25/08	10/31/08	
Potassium	EPA 6010B	8J25060	230	610	**9000**	10	10/25/08	11/03/08	
Selenium	EPA 6020	8J25063	0.92	6.1	**42**	5	10/25/08	10/31/08	
Silver	EPA 6020	8J25063	0.92	3.1	ND	5	10/25/08	10/31/08	RL1
Sodium	EPA 6010B	8J25060	290	610	**23000**	10	10/25/08	11/03/08	
Thallium	EPA 6020	8J25063	0.61	3.1	**39**	5	10/25/08	11/01/08	
Vanadium	EPA 6020	8J25063	2.1	6.1	**36**	5	10/25/08	10/31/08	
Zinc	EPA 6020	8J25063	8.0	61	**27**	5	10/25/08	10/31/08	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 soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-18 (OU4-UEP-43B-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: mg/kg dry									
Aluminum	EPA 6010B	8J25060	5.7	11	**7700**	1	10/25/08	10/30/08	
Antimony	EPA 6020	8J26028	0.11	1.1	**0.36**	1	10/26/08	10/28/08	J
Arsenic	EPA 6020	8J25063	0.40	0.57	**68**	1	10/25/08	10/31/08	
Barium	EPA 6020	8J25063	0.23	0.57	**60**	1	10/25/08	10/31/08	
Beryllium	EPA 6020	8J25063	0.11	0.34	**0.16**	1	10/25/08	10/31/08	J
Boron	EPA 6010B	8J25060	2.4	5.7	**7.3**	1	10/25/08	10/30/08	
Cadmium	EPA 6020	8J25063	0.069	0.57	ND	1	10/25/08	10/31/08	
Calcium	EPA 6010B	8J25060	7.2	17	**3600**	1	10/25/08	10/30/08	B-1
Chromium	EPA 6020	8J25063	0.40	1.1	**10**	1	10/25/08	10/31/08	
Cobalt	EPA 6020	8J25063	0.092	0.57	**3.5**	1	10/25/08	10/31/08	
Copper	EPA 6020	8J25063	0.44	1.1	**60**	1	10/25/08	10/31/08	
Iron	EPA 6010B	8J25060	1.7	5.7	**19000**	1	10/25/08	10/30/08	
Lead	EPA 6020	8J25063	0.17	0.57	**4.8**	1	10/25/08	10/31/08	
Magnesium	EPA 6010B	8J25060	1.1	11	**2500**	1	10/25/08	10/30/08	
Manganese	EPA 6010B	8J25060	0.92	1.1	**120**	1	10/25/08	10/30/08	
Mercury	EPA 7471A	8J23094	0.014	0.023	**0.067**	1	10/23/08	10/23/08	
Molybdenum	EPA 6020	8J25063	0.11	1.1	**0.94**	1	10/25/08	10/31/08	J
Nickel	EPA 6020	8J25063	0.52	1.1	**5.7**	1	10/25/08	10/31/08	
Potassium	EPA 6010B	8J25060	22	57	**1600**	1	10/25/08	11/03/08	
Selenium	EPA 6020	8J25063	0.17	1.1	**2.4**	1	10/25/08	10/31/08	
Silver	EPA 6020	8J25063	0.17	0.57	ND	1	10/25/08	10/31/08	
Sodium	EPA 6010B	8J25060	28	57	**940**	1	10/25/08	11/03/08	
Thallium	EPA 6020	8J25063	0.11	0.57	**5.1**	1	10/25/08	11/01/08	
Vanadium	EPA 6020	8J25063	0.40	1.1	**33**	1	10/25/08	10/31/08	
Zinc	EPA 6020	8J25063	1.5	11	**22**	1	10/25/08	10/31/08	

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

Project ID: BP Yerington soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-01 (OU4-UEP-36A-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**78**	1	12/08/08	12/08/08	
Sample ID: IRJ1929-02 (OU4-UEP-36B-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**79**	1	12/08/08	12/08/08	
Sample ID: IRJ1929-03 (OU4-UEP-37A-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**92**	1	12/08/08	12/08/08	
Sample ID: IRJ1929-04 (OU4-UEP-37B-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**74**	1	12/08/08	12/08/08	
Sample ID: IRJ1929-05 (OU4-UEP-40A-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**80**	1	12/08/08	12/08/08	
Sample ID: IRJ1929-06 (OU4-UEP-40B-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**75**	1	12/08/08	12/08/08	
Sample ID: IRJ1929-07 (OU4-LEP-26A-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**93**	1	12/08/08	12/08/08	
Sample ID: IRJ1929-08 (OU4-LEP-26B-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**85**	1	12/08/08	12/08/08	
Sample ID: IRJ1929-09 (OU4-LEP-19A-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**81**	1	12/08/08	12/08/08	
Sample ID: IRJ1929-10 (OU4-LEP-19B-SC - Soil)					**Sampled: 10/15/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**81**	1	12/08/08	12/08/08	

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Project ID: BP Yerington soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: IRJ1929-11 (OU4-UEP-38A-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**80**	1	12/08/08	12/08/08	
Sample ID: IRJ1929-12 (OU4-UEP-38B-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**79**	1	12/08/08	12/08/08	
Sample ID: IRJ1929-13 (OU4-UEP-38A-SC-FD - Soil)					**Sampled: 10/16/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**80**	1	12/08/08	12/08/08	
Sample ID: IRJ1929-14 (OU4-UEP-38B-SC-FD - Soil)					**Sampled: 10/16/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**78**	1	12/08/08	12/08/08	
Sample ID: IRJ1929-15 (OU4-UEP-39A-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**82**	1	12/08/08	12/08/08	
Sample ID: IRJ1929-16 (OU4-UEP-39B-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**79**	1	12/08/08	12/08/08	
Sample ID: IRJ1929-17 (OU4-UEP-43A-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**82**	1	12/08/08	12/08/08	
Sample ID: IRJ1929-18 (OU4-UEP-43B-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**87**	1	12/08/08	12/08/08	
Sample ID: IRJ1929-19 (OU4-UEP-44A-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**96**	1	12/08/08	12/08/08	
Sample ID: IRJ1929-20 (OU4-UEP-44B-SC - Soil)					**Sampled: 10/16/08**				
Reporting Units: %									
Percent Solids	EPA 160.3 MOD	8L10132	N/A	0.10	**81**	1	12/08/08	12/08/08	

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Project Manager

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Inorganic Analyses Support Documentation

Environmental Standards Project Name: Arco - Yerington
Sample Collection Dates: 10/15-16/08
Job Number: 20085047
Project Manager: Dina
Laboratory: TestAmerica

Reviewed By: TMW
Approved By:
Completion Date:

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

Sample No.	Lab. Control No.
IRJ1929	

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

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

	Criteria Examined in Detail (Check (✓) If Yes or Footnote Letter for Comments Below)					Problems Identified (Check (✓) If Yes or Footnote Number for Comments Below)					Support Documentation Attachments (Check (✓) If Yes — or Identify Attachment No.)				
	ICP or AA Metals	Furnace Metals	Cold Vapor Mercury	Cyanide	Other Method(s) ___	ICP or AA Metals	Furnace Metals	Cold Vapor Mercury	Cyanide	Other Method(s) ___	ICP or AA 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 ICB	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			✓				8525046-BLK1	calcium	7.36		36.8
								iron	1.97		9.85
								magnesium	2.28		11.4
							8525060-BLK1	aluminum	6.64		33.2
								calcium	15.3		76.5
								iron	2.8		14
								magnesium	4.1		20.5
							8525063-BLK1	chromium	0.556		2.78

Aq. = Aqueous; S = Solid

Notes:

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	OU4-UEP-38A-SC Analyte Concentration	Qual	RL	OU4-UEP-38A-SC-FD Analyte Concentration	Qual	RL	Difference	RPD	Notes
aluminum	4300		62	3900		63	NA	9.76%	IN
antimony	0.7	J	6.2	0.65	J	6.3	0.05	NA	IN
arsenic	23		3.1	43		3.1	NA	60.61%	1
barium	42		3.1	51		3.1	NA	19.35%	IN
boron	16	J	31	22	J	31	6	NA	IN
calcium	48000		94	38000		94	NA	23.26%	IN
chromium	5.9	B	6.2	7.1	B	6.3	1.2	NA	IN
cobalt	6.9		3.1	7.4		3.1	0.5	NA	IN
copper	540		6.2	540		6.3	NA	0.00%	IN
iron	130000		31	190000		63	NA	37.50%	IN
lead	12		3.1	25		3.1	13	NA	2
magnesium	2300		62	2200		63	NA	4.44%	IN
manganese	150		6.2	170		6.3	NA	12.50%	IN
mercury	0.39		0.025	0.62		0.025	NA	45.54%	1
molybdenum	6.1	J	6.2	9		6.3	2.9	NA	IN
nickel	6.9		6.2	8.7		6.3	1.8	NA	IN
potassium	7900		310	9700		630	NA	20.45%	IN
selenium	6.6		6.2	12		6.3	5.4	NA	IN
sodium	16000		310	21000		630	NA	27.03%	IN
thallium	14		3.1	24		3.1	10	NA	2
vanadium	44		6.2	45		6.3	NA	2.25%	IN
zinc	140		62	24	J	63	116	NA	IN
silicon	280		140	220		140	60	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".

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	OU4-UEP-38B-SC Analyte Concentration	Qual	RL	OU4-UEP-38B-SC-FD Analyte Concentration	Qual	RL	Difference	RPD	Notes
aluminum	25000		63	24000		64	NA	4.08%	IN
antimony	0.45	J	1.3	0.44	J	1.3	0.01	NA	IN
arsenic	67		0.63	70		3.2	NA	4.38%	IN
barium	130		0.63	150		3.2	NA	14.29%	IN
beryllium	0.38		0.38	1.9	U	1.9	1.52	NA	IN
boron	36		31	40		32	4	NA	IN
cadmium	0.086	J	0.63	3.2	U	3.2	3.114	NA	IN
calcium	9700		94	13000		96	NA	29.07%	IN
chromium	18		1.3	23		6.4	5	NA	IN
cobalt	7.7		0.63	9.7		3.2	2	NA	IN
copper	320		1.3	390		6.4	NA	19.72%	IN
iron	63000		31	62000		32	NA	1.60%	IN
lead	11		0.63	13		3.2	2	NA	IN
magnesium	7800		63	7300		64	NA	6.62%	IN
manganese	300		6.3	280		6.4	NA	6.90%	IN
mercury	0.14		0.025	0.1		0.026	0.04	NA	IN
molybdenum	4		1.3	4.7	J	6.4	0.7	NA	IN
nickel	12		1.3	15		6.4	3	NA	IN
potassium	5400		310	5400		320	NA	0.00%	IN
selenium	1.9		1.3	3.6	J	6.4	1.7	NA	IN
sodium	5100		310	5300		320	NA	3.85%	IN
thallium	3.1		0.63	7.1		3.2	4	NA	IN
vanadium	66		1.3	69		6.4	NA	4.44%	IN
zinc	45		13	84		64	39	NA	IN
silicon	85	J	140	96	J	140	11	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.

EVALUATION OF INORGANIC DUPLICATE ANALYSIS PRECISION

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:

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Project ID: BP Yerington soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J23094 Extracted: 10/23/08											
Blank Analyzed: 10/23/2008 (8J23094-BLK1)											
Mercury	ND	0.020	0.012	mg/kg wet							
LCS Analyzed: 10/23/2008 (8J23094-BS1)											
Mercury	0.882	0.020	0.012	mg/kg wet	0.800		110	85-120			
Matrix Spike Analyzed: 10/23/2008 (8J23094-MS1)						Source: IRJ1929-01					
Mercury	2.81	0.051	0.031	mg/kg dry	1.03	1.41	136	65-135			*MHA*
Matrix Spike Dup Analyzed: 10/23/2008 (8J23094-MSD1)						Source: IRJ1929-01					
Mercury	2.94	0.051	0.031	mg/kg dry	1.03	1.41	149	65-135	5	20	*MHA*
Batch: 8J24095 Extracted: 10/24/08											
Blank Analyzed: 10/24/2008 (8J24095-BLK1)											
Mercury	ND	0.020	0.012	mg/kg wet							
LCS Analyzed: 10/24/2008 (8J24095-BS1)											
Mercury	0.796	0.020	0.012	mg/kg wet	0.800		100	85-120			
Matrix Spike Analyzed: 10/24/2008 (8J24095-MS1)						Source: IRJ1929-21					
Mercury	1.77	0.042	0.025	mg/kg dry	0.839	0.838	111	65-135			
Matrix Spike Dup Analyzed: 10/24/2008 (8J24095-MSD1)						Source: IRJ1929-21					
Mercury	1.49	0.042	0.025	mg/kg dry	0.839	0.838	78	65-135	17	20	
Batch: 8J25046 Extracted: 10/25/08											
Blank Analyzed: 10/29/2008-11/02/2008 (8J25046-BLK1)											
Aluminum	ND	10	5.0	mg/kg wet							
Boron	ND	5.0	2.1	mg/kg wet							
Calcium	7.36	15	6.2	mg/kg wet							*J*
Iron	1.97	5.0	1.5	mg/kg wet							*J*
Magnesium	2.28	10	1.0	mg/kg wet							*J*
Manganese	ND	1.0	0.80	mg/kg wet							
Potassium	ND	50	19	mg/kg wet							
Silicon	ND	22	3.5	mg/kg as Silica wet							
Sodium	ND	50	24	mg/kg wet							

no impact

not assoc. w/ Level II samples

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Received: 10/18/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J25046 Extracted: 10/25/08											
LCS Analyzed: 10/29/2008-11/02/2008 (8J25046-BS1)											
Aluminum	51.0	10	5.0	mg/kg wet	50.0		102	80-120			
Boron	45.2	5.0	2.1	mg/kg wet	50.0		90	80-120			
Calcium	255	15	6.2	mg/kg wet	250		102	80-120			
Iron	49.7	5.0	1.5	mg/kg wet	50.0		99	80-120			
Magnesium	243	10	1.0	mg/kg wet	250		97	80-120			
Manganese	48.3	1.0	0.80	mg/kg wet	50.0		97	80-120			
Potassium	491	50	19	mg/kg wet	500		98	80-120			
Silicon	444	22	3.5	mg/kg as Silica wet	535		83	80-120			
Sodium	456	50	24	mg/kg wet	500		91	80-120			
Matrix Spike Analyzed: 10/30/2008-11/02/2008 (8J25046-MS1)						**Source: IRJ1929-21**		Level II sample			
Aluminum	1540	100	52	mg/kg dry	52.4	1470	148	75-125			*MHA*
Boron	77.7	52	22	mg/kg dry	52.4	34.4	83	75-125			
Calcium	29000	160	66	mg/kg dry	262	27300	644	75-125			*MHA*
Iron	199000	52	16	mg/kg dry	52.4	187000	23700	75-125	not assoc. w/		*MHA*
Magnesium	1180	100	10	mg/kg dry	262	1190	-6	75-125	Level II		*MHA*
Manganese	109	10	8.4	mg/kg dry	52.4	78.7	57	75-125	samples		*M2*
Potassium	11900	520	200	mg/kg dry	524	9850	398	75-125			*MHA*
Silicon	524	230	37	mg/kg as Silica dry	561	209	56	75-125			*M2*
Sodium	23700	520	250	mg/kg dry	524	23000	135	75-125			*MHA*
Matrix Spike Dup Analyzed: 10/30/2008-11/02/2008 (8J25046-MSD1)						**Source: IRJ1929-21**					
Aluminum	1400	100	52	mg/kg dry	52.4	1470	-128	75-125	10	20	*MHA*
Boron	74.8	52	22	mg/kg dry	52.4	34.4	77	75-125	4	20	
Calcium	31900	160	66	mg/kg dry	262	27300	1740	75-125	9	20	*MHA*
Iron	188000	52	16	mg/kg dry	52.4	187000	3030	75-125	6	20	*MHA*
Magnesium	1160	100	10	mg/kg dry	262	1190	-13	75-125	2	20	*MHA*
Manganese	108	10	8.4	mg/kg dry	52.4	78.7	55	75-125	1	20	*M2*
Potassium	10300	520	200	mg/kg dry	524	9850	81	75-125	15	20	*MHA*
Silicon	471	230	37	mg/kg as Silica dry	561	209	47	75-125	11	20	*M2*
Sodium	24100	520	250	mg/kg dry	524	23000	218	75-125	2	20	*MHA*

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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 soils

Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J25047 Extracted: 10/25/08											
Blank Analyzed: 10/28/2008 (8J25047-BLK1)											
Arsenic	ND	0.50	0.35	mg/kg wet							
Barium	ND	0.50	0.20	mg/kg wet							
Beryllium	ND	0.30	0.10	mg/kg wet							
Cadmium	ND	0.50	0.060	mg/kg wet							
Chromium	ND	1.0	0.35	mg/kg wet							
Cobalt	ND	0.50	0.080	mg/kg wet							
Copper	ND	1.0	0.38	mg/kg wet							
Lead	ND	0.50	0.15	mg/kg wet							
Molybdenum 0.565	0.113	1.0	0.10	mg/kg wet							J
Nickel	ND	1.0	0.45	mg/kg wet							
Selenium	ND	1.0	0.15	mg/kg wet							
Silver no impact	ND	0.50	0.15	mg/kg wet							
Thallium	ND	0.50	0.10	mg/kg wet							
Vanadium	ND	1.0	0.35	mg/kg wet							
Zinc	ND	10	1.3	mg/kg wet							
LCS Analyzed: 10/28/2008 (8J25047-BS1)											
Arsenic	48.2	0.50	0.35	mg/kg wet	50.0		96	80-120			
Barium	49.2	0.50	0.20	mg/kg wet	50.0		98	80-120			
Beryllium not assoc. w/	49.8	0.30	0.10	mg/kg wet	50.0		100	80-120			
Cadmium	46.9	0.50	0.060	mg/kg wet	50.0		94	80-120			
Chromium Level IV	49.9	1.0	0.35	mg/kg wet	50.0		100	80-120			
Cobalt samples	51.0	0.50	0.080	mg/kg wet	50.0		102	80-120			
Copper	52.4	1.0	0.38	mg/kg wet	50.0		105	80-120			
Lead	49.5	0.50	0.15	mg/kg wet	50.0		99	80-120			
Molybdenum	49.3	1.0	0.10	mg/kg wet	50.0		99	80-120			
Nickel	51.2	1.0	0.45	mg/kg wet	50.0		102	80-120			
Selenium	44.7	1.0	0.15	mg/kg wet	50.0		89	80-120			
Silver	25.1	0.50	0.15	mg/kg wet	25.0		100	80-120			
Thallium	48.9	0.50	0.10	mg/kg wet	50.0		98	80-120			
Vanadium	49.0	1.0	0.35	mg/kg wet	50.0		98	80-120			
Zinc	44.8	10	1.3	mg/kg wet	50.0		90	80-120			

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Project ID: BP Yerington soils

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Received: 10/18/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J25047 Extracted: 10/25/08											
Matrix Spike Analyzed: 10/28/2008 (8J25047-MS1)						**Source: IRJ1929-21**					
Arsenic	117	2.6	1.8	mg/kg dry	52.4	70.1	89	75-125			
Barium	77.5	2.6	1.0	mg/kg dry	52.4	32.0	87	75-125			
Beryllium	37.2	1.6	0.52	mg/kg dry	52.4	ND	71	75-125			*M2*
Cadmium	38.8	2.6	0.31	mg/kg dry	52.4	ND	74	75-125			*M2*
Chromium	48.4	5.2	1.8	mg/kg dry	52.4	7.81	77	75-125			
Cobalt	40.3	2.6	0.42	mg/kg dry	52.4	2.53	72	75-125			*M2*
Copper	158	5.2	2.0	mg/kg dry	52.4	152	12	75-125			*M2*
Lead	80.7	2.6	0.79	mg/kg dry	52.4	32.4	92	75-125			
Molybdenum	50.3	5.2	0.52	mg/kg dry	52.4	10.5	76	75-125			
Nickel	39.5	5.2	2.4	mg/kg dry	52.4	3.62	68	75-125			*M2*
Selenium	76.9	5.2	0.79	mg/kg dry	52.4	41.0	69	75-125			*M2*
Silver	19.5	2.6	0.79	mg/kg dry	26.2	ND	74	75-125			*M2*
Thallium	99.6	2.6	0.52	mg/kg dry	52.4	46.1	102	75-125			
Vanadium	74.2	5.2	1.8	mg/kg dry	52.4	28.6	87	75-125			
Zinc	40.5	52	6.8	mg/kg dry	52.4	8.64	61	75-125			*M2, J*
Matrix Spike Dup Analyzed: 10/28/2008 (8J25047-MSD1)						**Source: IRJ1929-21**					
Arsenic	108	2.6	1.8	mg/kg dry	52.4	70.1	73	75-125	8	20	*M2*
Barium	73.4	2.6	1.0	mg/kg dry	52.4	32.0	79	75-125	5	20	
Beryllium	36.7	1.6	0.52	mg/kg dry	52.4	ND	70	75-125	1	20	*M2*
Cadmium	38.6	2.6	0.31	mg/kg dry	52.4	ND	74	75-125	1	20	*M2*
Chromium	46.2	5.2	1.8	mg/kg dry	52.4	7.81	73	75-125	5	20	*M2*
Cobalt	40.0	2.6	0.42	mg/kg dry	52.4	2.53	72	75-125	1	20	*M2*
Copper	159	5.2	2.0	mg/kg dry	52.4	152	13	75-125	0	20	*M2*
Lead	79.9	2.6	0.79	mg/kg dry	52.4	32.4	91	75-125	1	20	
Molybdenum	48.0	5.2	0.52	mg/kg dry	52.4	10.5	72	75-125	5	20	*M2*
Nickel	38.7	5.2	2.4	mg/kg dry	52.4	3.62	67	75-125	2	20	*M2*
Selenium	75.6	5.2	0.79	mg/kg dry	52.4	41.0	66	75-125	2	20	*M2*
Silver	19.2	2.6	0.79	mg/kg dry	26.2	ND	73	75-125	2	20	*M2*
Thallium	92.6	2.6	0.52	mg/kg dry	52.4	46.1	89	75-125	7	20	
Vanadium	68.9	5.2	1.8	mg/kg dry	52.4	28.6	77	75-125	7	20	
Zinc	46.5	52	6.8	mg/kg dry	52.4	8.64	72	75-125	14	20	*M2, J*

not assoc. w/ Level IV samples

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Brown and Caldwell - NV
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Attention: Penny Bassett

Project ID: BP Yerington soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J25060 Extracted: 10/25/08											
Blank Analyzed: 10/30/2008-11/03/2008 (8J25060-BLK1)											
Aluminum	6.64	10	5.0	mg/kg wet							J
Boron	ND	5.0	2.1	mg/kg wet							
Calcium no impact	15.3	15	6.2	mg/kg wet							B
Iron	2.80	5.0	1.5	mg/kg wet							J
Magnesium	4.10	10	1.0	mg/kg wet							J
Manganese	ND	1.0	0.80	mg/kg wet							
Potassium	ND	50	19	mg/kg wet							
Silicon	ND	22	3.5	mg/kg as Silica wet							
Sodium	ND	50	24	mg/kg wet							
LCS Analyzed: 10/30/2008-11/03/2008 (8J25060-BS1)											
Aluminum	46.8	10	5.0	mg/kg wet	50.0		94	80-120			
Boron	45.5	5.0	2.1	mg/kg wet	50.0		91	80-120			
Calcium	254	15	6.2	mg/kg wet	250		102	80-120			
Iron	53.8	5.0	1.5	mg/kg wet	50.0		108	80-120			
Magnesium	238	10	1.0	mg/kg wet	250		95	80-120			
Manganese	46.3	1.0	0.80	mg/kg wet	50.0		93	80-120			
Potassium	474	50	19	mg/kg wet	500		95	80-120			
Silicon	451	22	3.5	mg/kg as Silica wet	535		84	80-120			
Sodium	456	50	24	mg/kg wet	500		91	80-120			
Matrix Spike Analyzed: 10/30/2008-11/03/2008 (8J25060-MS1)						**Source: IRJ1929-01**					
Aluminum	3040	64	32	mg/kg dry	64.4	3360	-493	75-125			MHA
Boron	70.4	32	14	mg/kg dry	64.4	20.2	78	75-125			
Calcium	38800	97	40	mg/kg dry	322	45800	-2190	75-125			MHA
Iron	165000	32	9.7	mg/kg dry	64.4	181000	-25400	75-125			MHA
Magnesium	1500	64	6.4	mg/kg dry	322	1740	-74	75-125			MHA
Manganese	151	6.4	5.1	mg/kg dry	64.4	133	29	75-125			M2
Potassium	10100	640	240	mg/kg dry	644	12200	-331	75-125			MHA
Silicon	617	140	23	mg/kg as Silica dry	689	692	-11	75-125			M2
Sodium	20900	640	310	mg/kg dry	644	21800	-142	75-125			MHA

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Project ID: BP Yerington soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J25060 Extracted: 10/25/08											
Matrix Spike Dup Analyzed: 10/30/2008-11/03/2008 (8J25060-MSD1)						**Source: IRJ1929-01**					
Aluminum	617	13	6.4	mg/kg dry	64.4	3360	-4260	75-125	133	20	*MHA*
Boron	14.9	6.4	2.7	mg/kg dry	64.4	20.2	-8	75-125	130	20	*M2, R-3*
Calcium	9600	19	8.0	mg/kg dry	322	45800	-11300	75-125	121	20	*MHA, R-3*
Iron	36700	6.4	1.9	mg/kg dry	64.4	181000	-225000	75-125	127	20	*MHA, R-3*
Magnesium	331	13	1.3	mg/kg dry	322	1740	-438	75-125	128	20	*MHA, R-3*
Manganese	34.9	1.3	1.0	mg/kg dry	64.4	133	-152	75-125	125	20	*M2, R-3*
Potassium	11800	640	240	mg/kg dry	644	12200	-75	75-125	15	20	*MHA*
Silicon	160	28	4.5	mg/kg as Silica dry	689	692	-77	75-125	118	20	*M2, R-3*
Sodium	22800	640	310	mg/kg dry	644	21800	151	75-125	9	20	*MHA*
Batch: 8J25063 Extracted: 10/25/08											
Blank Analyzed: 10/31/2008-11/01/2008 (8J25063-BLK1)											
Arsenic	ND	0.50	0.35	mg/kg wet							
Barium	ND	0.50	0.20	mg/kg wet							
Beryllium	ND	0.30	0.10	mg/kg wet							
Cadmium	ND	0.50	0.060	mg/kg wet							
Chromium 2.78	0.556	1.0	0.35	mg/kg wet							*J*
Cobalt	ND	0.50	0.080	mg/kg wet							
Copper	ND	1.0	0.38	mg/kg wet							
Lead	ND	0.50	0.15	mg/kg wet							
Molybdenum	ND	1.0	0.10	mg/kg wet							
Nickel	ND	1.0	0.45	mg/kg wet							
Selenium	ND	1.0	0.15	mg/kg wet							
Silver	ND	0.50	0.15	mg/kg wet							
Thallium	ND	0.50	0.10	mg/kg wet							
Vanadium	ND	1.0	0.35	mg/kg wet							
Zinc	ND	10	1.3	mg/kg wet							

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Attention: Penny Bassett

Project ID: BP Yerington soils

Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J25063 Extracted: 10/25/08											
LCS Analyzed: 10/31/2008-11/01/2008 (8J25063-BS1)											
Arsenic	47.0	0.50	0.35	mg/kg wet	50.0		94	80-120			
Barium	50.7	0.50	0.20	mg/kg wet	50.0		101	80-120			
Beryllium	51.2	0.30	0.10	mg/kg wet	50.0		102	80-120			
Cadmium	47.3	0.50	0.060	mg/kg wet	50.0		95	80-120			
Chromium	51.8	1.0	0.35	mg/kg wet	50.0		104	80-120			
Cobalt	50.0	0.50	0.080	mg/kg wet	50.0		100	80-120			
Copper	52.0	1.0	0.38	mg/kg wet	50.0		104	80-120			
Lead	50.5	0.50	0.15	mg/kg wet	50.0		101	80-120			
Molybdenum	48.1	1.0	0.10	mg/kg wet	50.0		96	80-120			
Nickel	51.4	1.0	0.45	mg/kg wet	50.0		103	80-120			
Selenium	43.9	1.0	0.15	mg/kg wet	50.0		88	80-120			
Silver	25.4	0.50	0.15	mg/kg wet	25.0		102	80-120			
Thallium	45.5	0.50	0.10	mg/kg wet	50.0		91	80-120			
Vanadium	49.8	1.0	0.35	mg/kg wet	50.0		100	80-120			
Zinc	45.7	10	1.3	mg/kg wet	50.0		91	80-120			
Matrix Spike Analyzed: 10/31/2008-11/01/2008 (8J25063-MS1)						**Source: IRJ1929-01**					
Arsenic	151	3.2	2.3	mg/kg dry	64.4	119	50	75-125			M2
Barium	116	3.2	1.3	mg/kg dry	64.4	67.7	75	75-125			
Beryllium	45.5	1.9	0.64	mg/kg dry	64.4	ND	71	75-125			M2
Cadmium	50.8	3.2	0.39	mg/kg dry	64.4	ND	79	75-125			
Chromium	60.3	6.4	2.3	mg/kg dry	64.4	12.9	74	75-125			M2
Cobalt	54.9	3.2	0.51	mg/kg dry	64.4	7.33	74	75-125			M2
Copper	347	6.4	2.4	mg/kg dry	64.4	357	-16	75-125			MHA
Lead	107	3.2	0.97	mg/kg dry	64.4	49.6	89	75-125			
Molybdenum	76.0	6.4	0.64	mg/kg dry	64.4	32.4	68	75-125			M2
Nickel	54.5	6.4	2.9	mg/kg dry	64.4	9.36	70	75-125			M2
Selenium	111	6.4	0.97	mg/kg dry	64.4	75.6	55	75-125			M2
Silver	25.9	3.2	0.97	mg/kg dry	32.2	ND	80	75-125			
Thallium	94.5	3.2	0.64	mg/kg dry	64.4	47.8	73	75-125			M2
Vanadium	100	6.4	2.3	mg/kg dry	64.4	57.8	66	75-125			M2
Zinc	79.0	64	8.4	mg/kg dry	64.4	19.2	93	75-125			

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Project ID: BP Yerington soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J25063 Extracted: 10/25/08											
Matrix Spike Dup Analyzed: 10/31/2008-11/01/2008 (8J25063-MSD1)						**Source: IRJ1929-01**					
Arsenic	155	3.2	2.3	mg/kg dry	64.4	119	56	75-125	3	20	*M2*
Barium	111	3.2	1.3	mg/kg dry	64.4	67.7	68	75-125	4	20	*M2*
Beryllium	48.5	1.9	0.64	mg/kg dry	64.4	ND	75	75-125	6	20	
Cadmium	53.9	3.2	0.39	mg/kg dry	64.4	ND	84	75-125	6	20	
Chromium	62.7	6.4	2.3	mg/kg dry	64.4	12.9	77	75-125	4	20	
Cobalt	57.4	3.2	0.51	mg/kg dry	64.4	7.33	78	75-125	4	20	
Copper	369	6.4	2.4	mg/kg dry	64.4	357	18	75-125	6	20	*MHA*
Lead	104	3.2	0.97	mg/kg dry	64.4	49.6	84	75-125	3	20	
Molybdenum	81.9	6.4	0.64	mg/kg dry	64.4	32.4	77	75-125	7	20	
Nickel	56.5	6.4	2.9	mg/kg dry	64.4	9.36	73	75-125	3	20	*M2*
Selenium	115	6.4	0.97	mg/kg dry	64.4	75.6	61	75-125	3	20	*M2*
Silver	27.2	3.2	0.97	mg/kg dry	32.2	ND	85	75-125	5	20	
Thallium	101	3.2	0.64	mg/kg dry	64.4	47.8	83	75-125	7	20	
Vanadium	105	6.4	2.3	mg/kg dry	64.4	57.8	74	75-125	5	20	*M2*
Zinc	64.6	64	8.4	mg/kg dry	64.4	19.2	71	75-125	20	20	*M2*
Batch: 8J26028 Extracted: 10/26/08											
Blank Analyzed: 10/28/2008 (8J26028-BLK1)											
Antimony	ND	1.0	0.10	mg/kg wet							
LCS Analyzed: 10/28/2008 (8J26028-BS1)											
Antimony	46.1	1.0	0.10	mg/kg wet	50.0		92	80-120			
Matrix Spike Analyzed: 10/28/2008 (8J26028-MS1)						**Source: IRJ1929-01**					
Antimony	49.2	6.4	0.64	mg/kg dry	64.4	0.997	75	75-125			

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Patty Mata
Project Manager

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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 soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J26028 Extracted: 10/26/08											
Matrix Spike Dup Analyzed: 10/28/2008 (8J26028-MSD1)						**Source: IRJ1929-01**					
Antimony	37.8	6.4	0.64	mg/kg dry	64.4	0.997	57	75-125	26	20	*M2, R-3*
Batch: 8J28114 Extracted: 10/28/08											
Blank Analyzed: 10/29/2008 (8J28114-BLK1)											
Antimony	ND	1.0	0.10	mg/kg wet							
LCS Analyzed: 10/29/2008 (8J28114-BS1)											
Antimony	53.4	1.0	0.10	mg/kg wet	50.0		107	80-120			
Matrix Spike Analyzed: 10/29/2008 (8J28114-MS1)						**Source: IRJ1929-21**					
Antimony	46.5	5.2	0.52	mg/kg dry	52.4	0.974	87	75-125			
Matrix Spike Dup Analyzed: 10/29/2008 (8J28114-MSD1)						**Source: IRJ1929-21**					
Antimony	47.3	5.2	0.52	mg/kg dry	52.4	0.974	88	75-125	2	20	
Batch: 8J30081 Extracted: 10/30/08											
Blank Analyzed: 10/30/2008 (8J30081-BLK1)											
Mercury	ND	0.020	0.012	mg/kg wet							
LCS Analyzed: 10/30/2008 (8J30081-BS1)											
Mercury	0.875	0.020	0.012	mg/kg wet	0.800		109	85-120			
Matrix Spike Analyzed: 10/30/2008 (8J30081-MS1)						**Source: IRJ1929-31**					
Mercury	1.08	0.024	0.014	mg/kg dry	0.941	0.0954	105	65-135			

not assoc. w/ Level IV samples

same

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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 soils
Report Number: IRJ1929

Sampled: 10/15/08-10/16/08
Received: 10/18/08

METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8J30081 Extracted: 10/30/08											
Matrix Spike Dup Analyzed: 10/30/2008 (8J30081-MSD1)						**Source: IRJ1929-31**					
Mercury	1.10	0.024	0.014	mg/kg dry	0.941	0.0954	106	65-135	1	20	

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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 soils Report Number: IRJ1929	Sampled: 10/15/08-10/16/08 Received: 10/18/08

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated Method Blank.
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.
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.
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).
R-3	The RPD exceeded the acceptance limit due to sample matrix effects.
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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Project Manager

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ICP
INITIAL CALIBRATION VERIFICATION SUMMARY

Instrument: ICP4
Data File/Seq.#: 081030-3

Labnumber: SEQUENCE-ICV1
Filename: 081030-3-013
Analyzed: Oct/30/08 11:58:27 AM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	2	1.988	99	90-110	
2	Antimony	2	1.988	99	90-110	
3	Arsenic	2	1.987	99	90-110	
4	Barium	2	2.062	103	90-110	
5	Beryllium	2	1.96	98	90-110	
6	Boron	2	2.012	101	90-110	
7	Cadmium	2	1.937	97	90-110	
8	Calcium	2	2.078	104	90-110	
9	Chromium	2	2.016	101	90-110	
10	Cobalt	2	1.967	98	90-110	
11	Copper	2	1.992	100	90-110	
12	Iron	2	2.033	102	90-110	
13	Lead	2	1.993	100	90-110	
14	Lithium	2	1.965	98	90-110	
15	Magnesium	2	1.966	98	90-110	
16	Manganese	2	1.973	99	90-110	
17	Molybdenum	2	1.938	97	90-110	
18	Nickel	2	1.983	99	90-110	
19	Phosphorus	2	1.924	96	90-110	
20	Potassium	20	20.348	102	90-110	
21	Selenium	2	1.931	97	90-110	
22	Silicon	10	10.207	102	90-110	
23	Silver	1	1.022	102	90-110	
24	Sodium	20	19.342	97	90-110	
25	Strontium	2	1.948	97	90-110	
26	Thallium	2	2.03	101	90-110	
27	Tin	2	1.95	98	90-110	
28	Titanium	2	2.023	101	90-110	
29	Vanadium	2	2.03	101	90-110	
30	Zinc	2	1.962	98	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: **ICP4**
Data File/Seq.#: 081030-3

Labnumber: SEQUENCE-CCV1
Filename: 081030-3-025
Analyzed: Oct/30/08 1:08:32 PM

	Analyte	Conc (mg/L) True	Conc (mg/L) Found	% Rec	%Limits	Q
1	Aluminum	1	0.957	96	90-110	
2	Antimony	1	0.991	99	90-110	
3	Arsenic	1	0.993	99	90-110	
4	Barium	1	0.999	100	90-110	
5	Beryllium	1	0.986	99	90-110	
6	Boron	1	0.992	99	90-110	
7	Cadmium	1	0.992	99	90-110	
8	Calcium	10	10.002	100	90-110	
9	Chromium	1	1	100	90-110	
10	Cobalt	1	0.997	100	90-110	
11	Copper	1	1.003	100	90-110	
12	Iron	1	1	100	90-110	
13	Lead	1	0.997	100	90-110	
14	Lithium	1	1.019	102	90-110	
15	Magnesium	1	1.004	100	90-110	
16	Manganese	1	1.001	100	90-110	
17	Molybdenum	1	0.999	100	90-110	
18	Nickel	1	0.999	100	90-110	
19	Phosphorus	1	0.98	98	90-110	
20	Potassium	10	10.124	101	90-110	
21	Selenium	1	0.985	99	90-110	
22	Silicon	5	4.892	98	90-110	
23	Silver	0.5	0.501	100	90-110	
24	Sodium	10	9.645	96	90-110	
25	Strontium	1	0.993	99	90-110	
26	Thallium	1	0.986	99	90-110	
27	Tin	1	0.997	100	90-110	
28	Titanium	1	1.001	100	90-110	
29	Vanadium	1	1.009	101	90-110	
30	Zinc	1	0.987	99	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: **ICP4**
Data File/Seq.#: 081030-3

Labnumber: SEQUENCE-CCV2
Filename: 081030-3-037
Analyzed: Oct/30/08 2:20:46 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.982	98	90-110	
2	Antimony	1	1.002	100	90-110	
3	Arsenic	1	1.003	100	90-110	
4	Barium	1	1.004	100	90-110	
5	Beryllium	1	0.977	98	90-110	
6	Boron	1	1.009	101	90-110	
7	Cadmium	1	1.002	100	90-110	
8	Calcium	10	10.035	100	90-110	
9	Chromium	1	1.009	101	90-110	
10	Cobalt	1	1.004	100	90-110	
11	Copper	1	1.008	101	90-110	
12	Iron	1	1.005	100	90-110	
13	Lead	1	1.005	100	90-110	
14	Lithium	1	1.023	102	90-110	
15	Magnesium	1	1.015	101	90-110	
16	Manganese	1	1.007	101	90-110	
17	Molybdenum	1	1.008	101	90-110	
18	Nickel	1	1.008	101	90-110	
19	Phosphorus	1	0.986	99	90-110	
20	Potassium	10	10.449	104	90-110	
21	Selenium	1	0.996	100	90-110	
22	Silicon	5	4.874	97	90-110	
23	Silver	0.5	0.504	101	90-110	
24	Sodium	10	10.11	101	90-110	
25	Strontium	1	1.002	100	90-110	
26	Thallium	1	1	100	90-110	
27	Tin	1	1.006	101	90-110	
28	Titanium	1	1.017	102	90-110	
29	Vanadium	1	1.021	102	90-110	
30	Zinc	1	0.996	100	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: **ICP4** Labnumber: SEQUENCE-CCV3
Data File/Seq.#: 081030-3 Filename: 081030-3-048
Analyzed: Oct/30/08 3:22:26 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.951	95	90-110	
2	Antimony	1	0.988	99	90-110	
3	Arsenic	1	1	100	90-110	
4	Barium	1	0.979	98	90-110	
5	Beryllium	1	0.99	99	90-110	
6	Boron	1	0.972	97	90-110	
7	Cadmium	1	0.995	100	90-110	
8	Calcium	10	9.915	99	90-110	
9	Chromium	1	1.001	100	90-110	
10	Cobalt	1	0.992	99	90-110	
11	Copper	1	0.996	100	90-110	
12	Iron	1	0.995	100	90-110	
13	Lead	1	0.999	100	90-110	
14	Lithium	1	0.99	99	90-110	
15	Magnesium	1	1.008	101	90-110	
16	Manganese	1	0.995	100	90-110	
17	Molybdenum	1	1.001	100	90-110	
18	Nickel	1	1	100	90-110	
19	Phosphorus	1	0.992	99	90-110	
20	Potassium	10	10.265	103	90-110	
21	Selenium	1	0.984	98	90-110	
22	Silicon	5	4.834	97	90-110	
23	Silver	0.5	0.501	100	90-110	
24	Sodium	10	9.582	96	90-110	
25	Strontium	1	0.981	98	90-110	
26	Thallium	1	0.996	100	90-110	
27	Tin	1	0.999	100	90-110	
28	Titanium	1	1.001	100	90-110	
29	Vanadium	1	1.003	100	90-110	
30	Zinc	1	0.989	99	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: **ICP4**
Data File/Seq.#: 081030-3

Labnumber: SEQUENCE-CCV4
Filename: 081030-3-057
Analyzed: Oct/30/08 4:32:28 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.92	92	90-110	
2	Antimony	1	0.962	96	90-110	
3	Arsenic	1	0.963	96	90-110	
4	Barium	1	0.949	95	90-110	
5	Beryllium	1	0.966	97	90-110	
6	Boron	1	0.932	93	90-110	
7	Cadmium	1	0.945	95	90-110	
8	Calcium	10	9.469	95	90-110	
9	Chromium	1	0.975	98	90-110	
10	Cobalt	1	0.944	94	90-110	
11	Copper	1	0.96	96	90-110	
12	Iron	1	0.947	95	90-110	
13	Lead	1	0.967	97	90-110	
14	Lithium	1	0.964	96	90-110	
15	Magnesium	1	0.958	96	90-110	
16	Manganese	1	0.951	95	90-110	
17	Molybdenum	1	0.971	97	90-110	
18	Nickel	1	0.96	96	90-110	
19	Phosphorus	1	0.948	95	90-110	
20	Potassium	10	9.837	98	90-110	
21	Selenium	1	0.957	96	90-110	
22	Silicon	5	4.624	92	90-110	
23	Silver	0.5	0.486	97	90-110	
24	Sodium	10	9.083	91	90-110	
25	Strontium	1	0.942	94	90-110	
26	Thallium	1	0.953	95	90-110	
27	Tin	1	0.966	97	90-110	
28	Titanium	1	0.956	96	90-110	
29	Vanadium	1	0.973	97	90-110	
30	Zinc	1	0.947	95	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: **ICP4**
Data File/Seq.#: 081030-3

Labnumber: SEQUENCE-CCV5
Filename: 081030-3-069
Analyzed: Oct/30/08 5:42:22 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.951	95	90-110	
2	Antimony	1	0.988	99	90-110	
3	Arsenic	1	0.996	100	90-110	
4	Barium	1	0.951	95	90-110	
5	Beryllium	1	0.981	98	90-110	
6	Boron	1	0.987	99	90-110	
7	Cadmium	1	0.983	98	90-110	
8	Calcium	10	9.824	98	90-110	
9	Chromium	1	1.009	101	90-110	
10	Cobalt	1	0.975	98	90-110	
11	Copper	1	0.992	99	90-110	
12	Iron	1	0.984	98	90-110	
13	Lead	1	1.004	100	90-110	
14	Lithium	1	0.982	98	90-110	
15	Magnesium	1	0.993	99	90-110	
16	Manganese	1	0.985	99	90-110	
17	Molybdenum	1	1.005	100	90-110	
18	Nickel	1	0.985	99	90-110	
19	Phosphorus	1	0.994	99	90-110	
20	Potassium	10	9.963	100	90-110	
21	Selenium	1	0.967	97	90-110	
22	Silicon	5	4.778	96	90-110	
23	Silver	0.5	0.497	99	90-110	
24	Sodium NR	10	8.894	89	90-110	*
25	Strontium	1	0.945	95	90-110	
26	Thallium	1	0.993	99	90-110	
27	Tin	1	1	100	90-110	
28	Titanium	1	1.012	101	90-110	
29	Vanadium	1	1.004	100	90-110	
30	Zinc	1	0.978	98	90-110	

(*) = Out of range

Na was not reported from this sequence

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument:	**ICP4**	Labnumber:	SEQUENCE-CCV7
Data File/Seq.#:	081030-3	Filename:	081030-3-082
		Analyzed:	Oct/30/08 7:06:26 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.962	96	90-110	
2	Antimony	1	0.979	98	90-110	
3	Arsenic	1	0.984	98	90-110	
4	Barium	1	0.948	95	90-110	
5	Beryllium	1	0.975	98	90-110	
6	Boron	1	0.97	97	90-110	
7	Cadmium	1	0.976	98	90-110	
8	Calcium	10	9.768	98	90-110	
9	Chromium	1	0.996	100	90-110	
10	Cobalt	1	0.97	97	90-110	
11	Copper	1	0.988	99	90-110	
12	Iron	1	0.976	98	90-110	
13	Lead	1	0.988	99	90-110	
14	Lithium	1	0.972	97	90-110	
15	Magnesium	1	0.985	99	90-110	
16	Manganese	1	0.978	98	90-110	
17	Molybdenum	1	0.992	99	90-110	
18	Nickel	1	0.983	98	90-110	
19	Phosphorus	1	0.978	98	90-110	
20	Potassium	10	9.973	100	90-110	
21	Selenium	1	0.96	96	90-110	
22	Silicon	5	4.758	95	90-110	
23	Silver	0.5	0.501	100	90-110	
24	Sodium NR	10	8.816	88	90-110	*
25	Strontium	1	0.943	94	90-110	
26	Thallium	1	0.977	98	90-110	
27	Tin	1	0.986	99	90-110	
28	Titanium	1	0.999	100	90-110	
29	Vanadium	1	1.005	100	90-110	
30	Zinc	1	0.976	98	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument:	**ICP4**	Labnumber:	SEQUENCE-CCV8
Data File/Seq.#:	081030-3	Filename:	081030-3-094
		Analyzed:	Oct/30/08 8:16:10 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.975	98	90-110	
2	Antimony	1	0.97	97	90-110	
3	Arsenic	1	0.973	97	90-110	
4	Barium	1	0.946	95	90-110	
5	Beryllium	1	0.973	97	90-110	
6	Boron	1	1.022	102	90-110	
7	Cadmium	1	0.991	99	90-110	
8	Calcium	10	9.911	99	90-110	
9	Chromium	1	0.993	99	90-110	
10	Cobalt	1	0.98	98	90-110	
11	Copper	1	1.007	101	90-110	
12	Iron	1	0.989	99	90-110	
13	Lead	1	0.984	98	90-110	
14	Lithium	1	0.985	99	90-110	
15	Magnesium	1	1.004	100	90-110	
16	Manganese	1	0.994	99	90-110	
17	Molybdenum	1	0.991	99	90-110	
18	Nickel	1	0.994	99	90-110	
19	Phosphorus	1	0.984	98	90-110	
20	Potassium	10	10.207	102	90-110	
21	Selenium	1	0.937	94	90-110	
22	Silicon	5	4.831	97	90-110	
23	Silver	0.5	0.505	101	90-110	
24	Sodium NR	10	8.487	85	90-110	*
25	Strontium	1	0.939	94	90-110	
26	Thallium	1	0.983	98	90-110	
27	Tin	1	0.98	98	90-110	
28	Titanium	1	1.034	103	90-110	
29	Vanadium	1	1.022	102	90-110	
30	Zinc	1	0.991	99	90-110	

(*) = Out of range

ICP
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument: **ICP4**
Data File/Seq.#: 081030-3

Labnumber: SEQUENCE-CRL1
Filename: 081030-3-011
Analyzed: Oct/30/08 11:47:49 AM

	Analyte	Conc (mg/L) True	Conc (mg/L) Found	% Rec	%Limits	Q
1	Aluminum	0.1	0.139	139	50-150	
3	Arsenic	0.01	0.0116	116	50-150	
5	Beryllium	0.01	0.01	100	50-150	
6	Boron	0.1	0.0983	98	50-150	
7	Cadmium	0.01	0.0099	99	50-150	
8	Calcium	0.2	0.2247	112	50-150	
9	Chromium	0.01	0.0102	102	50-150	
12	Iron	0.08	0.0811	101	50-150	
13	Lead	0.01	0.0118	118	50-150	
15	Magnesium	0.04	0.0388	97	50-150	
16	Manganese	0.01	0.0102	102	50-150	
19	Phosphorus	1	0.0149	1	50-150	*
20	Potassium	1	0.9627	96	50-150	
24	Sodium	1	0.9086	91	50-150	
28	Titanium	0.01	0.0101	101	50-150	

(*) = Out of range

not Spiked

ICP
REPORTING LIMIT VERIFICATION SUMMARY (20 ppb)

Instrument:	**ICP4**	Labnumber:	SEQUENCE-CRL2
Data File/Seq.#:	081030-3	Filename:	081030-3-012
		Analyzed:	Oct/30/08 11:53:32 AM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
2	Antimony	0.02	0.019	95	50-150	
4	Barium	0.02	0.0203	101	50-150	
10	Cobalt	0.02	0.0199	100	50-150	
11	Copper	0.02	0.0206	103	50-150	
14	Lithium	0.02	0.022	110	50-150	
17	Molybdenum	0.02	0.02	100	50-150	
18	Nickel	0.02	0.0209	104	50-150	
21	Selenium	0.02	0.0176	88	50-150	
22	Silicon	0.1	0.1012	101	50-150	
23	Silver	0.01	0.0099	99	50-150	
25	Strontium	0.02	0.0205	103	50-150	
26	Thallium	0.02	0.021	105	50-150	
27	Tin	0.02	0.0194	97	50-150	
29	Vanadium	0.02	0.0214	107	50-150	
30	Zinc	0.02	0.0202	101	50-150	

(*) = Out of range

ICP
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument: **ICP4**
Data File/Seq.#: 081030-3

Labnumber: SEQUENCE-BP1-1
Filename: 081030-3-027
Analyzed: Oct/30/08 1:20:39 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	0.1	0.135	135	50-150	
3	Arsenic	0.01	0.0109	109	50-150	
5	Beryllium	0.01	0.0101	101	50-150	
6	Boron	0.1	0.0965	97	50-150	
7	Cadmium	0.01	0.0099	99	50-150	
8	Calcium	0.2	0.2268	113	50-150	
9	Chromium	0.01	0.01	100	50-150	
12	Iron	0.08	0.0826	103	50-150	
13	Lead	0.01	0.0108	108	50-150	
15	Magnesium	0.04	0.0434	109	50-150	
16	Manganese	0.01	0.0103	103	50-150	
19	Phosphorus	1	0.0151	2	50-150	*
20	Potassium	1	1.0127	101	50-150	
24	Sodium	1	0.9536	95	50-150	
28	Titanium	0.01	0.0102	102	50-150	

(*) = Out of range

ICP
REPORTING LIMIT VERIFICATION SUMMARY (20 ppb)

Instrument:	**ICP4**	Labnumber:	SEQUENCE-BP2-1
Data File/Seq.#:	081030-3	Filename:	081030-3-028
		Analyzed:	Oct/30/08 1:26:17 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
2	Antimony	0.02	0.0169	85	50-150	
4	Barium	0.02	0.0203	101	50-150	
10	Cobalt	0.02	0.0196	98	50-150	
11	Copper	0.02	0.0199	100	50-150	
14	Lithium	0.02	0.0238	119	50-150	
17	Molybdenum	0.02	0.0199	100	50-150	
18	Nickel	0.02	0.0205	103	50-150	
21	Selenium	0.02	0.0164	82	50-150	
22	Silicon	0.1	0.0986	99	50-150	
23	Silver	0.01	0.0101	101	50-150	
25	Strontium	0.02	0.0201	100	50-150	
26	Thallium	0.02	0.0213	106	50-150	
27	Tin	0.02	0.0184	92	50-150	
29	Vanadium	0.02	0.0202	101	50-150	
30	Zinc	0.02	0.0198	99	50-150	

(*) = Out of range

ICP
INITIAL CALIBRATION BLANK SUMMARY

Instrument:	**ICP4**	Labnumber:	SEQUENCE-ICB1
Data File/Seq.#:	081030-3	Filename:	081030-3-014
		Analyzed:	Oct/30/08 12:03:17 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.008	
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	0.004	
7	Cadmium	0.005	0	
8	Calcium	0.1	0.008	
9	Chromium	0.005	0	
10	Cobalt	0.01	0	
11	Copper	0.01	-0.001	
12	Iron	0.04	0	
13	Lead	0.005	0.001	
14	Lithium	0.05	0	
15	Magnesium	0.5	0.003	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0.001	
18	Nickel	0.01	0	
19	Phosphorus	0.5	0.002	
20	Potassium	0.5	-0.034	
21	Selenium	0.01	-0.001	
22	Silicon	0.05	0.003	
23	Silver	0.01	-0.001	
24	Sodium	0.5	0.01	
25	Strontium	0.02	0	
26	Thallium	0.01	0.001	
27	Tin	0.1	-0.001	
28	Titanium	0.005	0	
29	Vanadium	0.01	0	
30	Zinc	0.02	0	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	**ICP4**	Labnumber:	SEQUENCE-CCB1	
Data File/Seq.#:	081030-3	Filename:	081030-3-026	
		Analyzed:	Oct/30/08	1:14:12 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.009	
2	Antimony	0.01	0	
3	Arsenic	0.005	0.002	
4	Barium	0.01	0	
5	Beryllium	0.05	0	
6	Boron	0.05	0.006	
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	-0.001	
12	Iron	0.04	0	
13	Lead	0.005	0.001	
14	Lithium	0.05	0.001	
15	Magnesium	0.5	-0.001	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0	
18	Nickel	0.01	0	
19	Phosphorus	0.5	0.009	
20	Potassium	0.5	-0.065	
21	Selenium	0.01	-0.004	
22	Silicon	0.05	0.004	
23	Silver	0.01	-0.001	
24	Sodium	0.5	-0.068	
25	Strontium	0.02	0	
26	Thallium	0.01	0	
27	Tin	0.1	-0.002	
28	Titanium	0.005	0	
29	Vanadium	0.01	-0.001	
30	Zinc	0.02	0	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	**ICP4**	Labnumber:	SEQUENCE-CCB2
Data File/Seq.#:	081030-3	Filename:	081030-3-038
		Analyzed:	Oct/30/08 2:26:26 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.006	
2	Antimony	0.01	0.001	
3	Arsenic	0.005	-0.001	
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	0.005	
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	
14	Lithium	0.05	0.001	
15	Magnesium	0.5	0.002	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0	
18	Nickel	0.01	0	
19	Phosphorus	0.5	0.001	
20	Potassium	0.5	0.078	
21	Selenium	0.01	-0.002	
22	Silicon	0.05	0.004	
23	Silver	0.01	-0.001	
24	Sodium	0.5	0.171	
25	Strontium	0.02	0	
26	Thallium	0.01	0.001	
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

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	**ICP4**	Labnumber:	SEQUENCE-CCB3	
Data File/Seq.#:	081030-3	Filename:	081030-3-049	
		Analyzed:	Oct/30/08	3:28:06 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.011	
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	0.006	
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	0.001	
15	Magnesium	0.5	-0.004	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0	
18	Nickel	0.01	0	
19	Phosphorus	0.5	0.007	
20	Potassium	0.5	0.099	
21	Selenium	0.01	-0.002	
22	Silicon	0.05	0.006	
23	Silver	0.01	0	
24	Sodium	0.5	0.071	
25	Strontium	0.02	0	
26	Thallium	0.01	-0.001	
27	Tin	0.1	0.001	
28	Titanium	0.005	0.001	
29	Vanadium	0.01	0	
30	Zinc	0.02	0	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	**ICP4**	Labnumber:	SEQUENCE-CCB4
Data File/Seq.#:	081030-3	Filename:	081030-3-058
		Analyzed:	Oct/30/08 4:38:07 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	0.007	
2	Antimony	0.01	0.001	
3	Arsenic	0.005	-0.003	
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	0.005	
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	
14	Lithium	0.05	-0.001	
15	Magnesium	0.5	-0.002	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0	
18	Nickel	0.01	0.001	
19	Phosphorus	0.5	0	
20	Potassium	0.5	-0.047	
21	Selenium	0.01	-0.001	
22	Silicon	0.05	0.007	
23	Silver	0.01	0	
24	Sodium	0.5	0.002	
25	Strontium	0.02	0	
26	Thallium	0.01	0.001	
27	Tin	0.1	0	
28	Titanium	0.005	0	
29	Vanadium	0.01	0.001	
30	Zinc	0.02	0.001	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	**ICP4**	Labnumber:	SEQUENCE-CCB5	
Data File/Seq.#:	081030-3	Filename:	081030-3-070	
		Analyzed:	Oct/30/08	5:48:01 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.011	
2	Antimony	0.01	0	
3	Arsenic	0.005	0	
4	Barium	0.01	0	
5	Beryllium	0.05	0	
6	Boron	0.05	0.008	
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	
14	Lithium	0.05	0	
15	Magnesium	0.5	0.002	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0	
18	Nickel	0.01	0	
19	Phosphorus	0.5	0.001	
20	Potassium	0.5	-0.042	
21	Selenium	0.01	-0.002	
22	Silicon	0.05	0.005	
23	Silver	0.01	0	
24	Sodium	0.5	-0.08	
25	Strontium	0.02	0	
26	Thallium	0.01	0.001	
27	Tin	0.1	0.001	
28	Titanium	0.005	0	
29	Vanadium	0.01	0	
30	Zinc	0.02	0	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	**ICP4**	Labnumber:	SEQUENCE-CCB7	
Data File/Seq.#:	081030-3	Filename:	081030-3-083	
		Analyzed:	Oct/30/08	7:12:05 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.002	
2	Antimony	0.01	0	
3	Arsenic	0.005	-0.002	
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	0.005	
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	
14	Lithium	0.05	-0.001	
15	Magnesium	0.5	-0.002	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0	
18	Nickel	0.01	0	
19	Phosphorus	0.5	-0.002	
20	Potassium	0.5	0.023	
21	Selenium	0.01	-0.001	
22	Silicon	0.05	0.006	
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	
28	Titanium	0.005	0	
29	Vanadium	0.01	0	
30	Zinc	0.02	0	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	**ICP4**	Labnumber:	SEQUENCE-CCB8
Data File/Seq.#:	081030-3	Filename:	081030-3-095
		Analyzed:	Oct/30/08 8:21:52 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.009	
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	0.009	
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	
13	Lead	0.005	-0.001	
14	Lithium	0.05	-0.003	
15	Magnesium	0.5	-0.003	
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	-0.042	
21	Selenium	0.01	-0.002	
22	Silicon	0.05	0.012	
23	Silver	0.01	0	
24	Sodium	0.5	-0.046	
25	Strontium	0.02	0	
26	Thallium	0.01	0	
27	Tin	0.1	0	
28	Titanium	0.005	0	
29	Vanadium	0.01	0	
30	Zinc	0.02	0	

(*) = Out of range

ICP
INTERFERENCE CHECK STANDARD SUMMARY

Instrument: **ICP4**
Data File/Seq.#: 081030-3

ICSA File name: 081030-3-006
ICSA Analyzed: Oct/30/08 11:21:17 AM
ICSAB File name: 081030-3-007
ICSAB Analyzed: Oct/30/08 11:25:10 AM

	Analyte	True (mg/L)		Found (mg/L)		% Rec	%Limits	Q	Q
		ICSA	ICSAB	ICSA	ICSAB	(ICSAB)	(ICSAB)	(ICSA)	(ICSAB)
1	Aluminum	500	500	444.103	452.958	91	80-120		
2	Antimony	0	0.5	-0.001	0.497	99	80-120		
3	Arsenic	0	0.5	-0.002	0.535	107	80-120		
4	Barium	0	0.5	0.005	0.505	101	80-120		
5	Beryllium	0	0.5	0	0.506	101	80-120		
6	Boron	0	0.5	-0.007	0.501	100	80-120		
7	Cadmium	0	0.5	0.002	0.486	97	80-120		
8	Calcium	500	500	475.117	483.951	97	80-120		
9	Chromium	0	0.5	0.002	0.518	104	80-120		
10	Cobalt	0	0.5	0.003	0.494	99	80-120		
11	Copper	0	0.5	-0.004	0.53	106	80-120		
12	Iron	200	200	176.138	179.718	90	80-120		
13	Lead	0	0.5	0	0.497	99	80-120		
14	Lithium	0	0.5	0.037	0.562	112	80-120		
15	Magnesium	500	500	482.204	489.998	98	80-120		
16	Manganese	0	0.5	-0.001	0.501	100	80-120		
17	Molybdenum	0	0.5	0.003	0.515	103	80-120		
18	Nickel	0	0.5	-0.001	0.491	98	80-120		
19	Phosphorus	0	0.5	0.03	0.535	107	80-120		
20	Potassium	0	10	-0.045	12.937	129	80-120		*
21	Selenium	0	0.5	0.002	0.476	95	80-120		
22	Silicon	0	2.5	0.011	2.388	96	80-120		
23	Silver	0	0.25	-0.002	0.265	106	80-120		
24	Sodium	0	10	-0.049	11.628	116	80-120		
25	Strontium	0	0.5	-0.001	0.539	108	80-120		
26	Thallium	0	0.5	-0.005	0.471	94	80-120		
27	Tin	0	0.5	0.003	0.493	99	80-120		
28	Titanium	0	0.5	0.001	0.506	101	80-120		
29	Vanadium	0	0.5	-0.002	0.505	101	80-120		
30	Zinc	0	0.5	-0.003	0.498	100	80-120		

	ICSA	ICSAB
Acceptance Limits:	+ / - 2xRL	80-120%

(*) : out of QC limits

K results >> spike

no impact

ICP
INTERFERENCE CHECK STANDARD SUMMARY

Instrument: **ICP4**
Data File/Seq.#: 081030-3

ICSA File name: 081030-3-029
ICSA Analyzed: Oct/30/08 1:32:24 PM
ICSAB File name: 081030-3-030
ICSAB Analyzed: Oct/30/08 1:37:44 PM

	Analyte	True (mg/L)		Found (mg/L)		% Rec	%Limits	Q	Q
		ICSA	ICSAB	ICSA	ICSAB	(ICSAB)	(ICSAB)	(ICSA)	(ICSAB)
1	Aluminum	500	500	434.195	437.71	88	80-120		
2	Antimony	0	0.5	-0.004	0.496	99	80-120		
3	Arsenic	0	0.5	-0.007	0.519	104	80-120		
4	Barium	0	0.5	0.005	0.503	101	80-120		
5	Beryllium	0	0.5	0	0.503	101	80-120		
6	Boron	0	0.5	-0.006	0.492	98	80-120		
7	Cadmium	0	0.5	0.002	0.478	96	80-120		
8	Calcium	500	500	467.04	470.015	94	80-120		
9	Chromium	0	0.5	0.001	0.503	101	80-120		
10	Cobalt	0	0.5	0.002	0.48	96	80-120		
11	Copper	0	0.5	-0.005	0.53	106	80-120		
12	Iron	200	200	172.847	173.883	87	80-120		
13	Lead	0	0.5	0.003	0.486	97	80-120		
14	Lithium	0	0.5	0.036	0.54	108	80-120		
15	Magnesium	500	500	469.997	473.102	95	80-120		
16	Manganese	0	0.5	-0.001	0.499	100	80-120		
17	Molybdenum	0	0.5	0.002	0.501	100	80-120		
18	Nickel	0	0.5	-0.001	0.477	95	80-120		
19	Phosphorus	0	0.5	0.028	0.505	101	80-120		
20	Potassium	0	10	-0.123	12.751	128	80-120		*
21	Selenium	0	0.5	0.004	0.463	93	80-120		
22	Silicon	0	2.5	0.008	2.369	95	80-120		
23	Silver	0	0.25	-0.004	0.266	106	80-120		
24	Sodium	0	10	-0.056	11.599	116	80-120		
25	Strontium	0	0.5	0	0.533	107	80-120		
26	Thallium	0	0.5	-0.007	0.45	90	80-120		
27	Tin	0	0.5	0.001	0.485	97	80-120		
28	Titanium	0	0.5	0	0.504	101	80-120		
29	Vanadium	0	0.5	-0.003	0.503	101	80-120		
30	Zinc	0	0.5	-0.003	0.484	97	80-120		

	ICSA	ICSAB
Acceptance Limits:	+ / - 2xRL	80-120%

(*) : out of QC limits

Same

RUN LOG

Intrument: ***ICP4***

Calib.file #: 081030-3 Calib. date: 10/30/2008

#	File_Name	Lab_Number	Dilution	Analyzed	Time
1	081030-3-001	Calib Blank 1	1	Oct/30/08	10:48:58 AM
2	081030-3-002	Calib Std 1	1	Oct/30/08	10:54:37 AM
3	081030-3-003	Calib Std 2	1	Oct/30/08	11:00:11 AM
4	081030-3-004	Calib std 3	1	Oct/30/08	11:05:49 AM
5	081030-3-005	SEQUENCE-IFA1	1	Oct/30/08	11:11:31 AM
6	081030-3-006	SEQUENCE-IFA2	1	Oct/30/08	11:19:43 AM
7	081030-3-007	SEQUENCE-IFB1	1	Oct/30/08	11:24:31 AM
8	081030-3-008	RINSE	1	Oct/30/08	11:28:54 AM
9	081030-3-009	SEQUENCE-ICV1	1	Oct/30/08	11:34:34 AM
10	081030-3-010	SEQUENCE-ICB1	1	Oct/30/08	11:38:37 AM
11	081030-3-011	SEQUENCE-CRL1	1	Oct/30/08	11:46:41 AM
12	081030-3-012	SEQUENCE-CRL2	1	Oct/30/08	11:52:24 AM
13	081030-3-013	SEQUENCE-ICV1	1	Oct/30/08	11:58:07 AM
14	081030-3-014	SEQUENCE-ICB1	1	Oct/30/08	12:02:09 PM
15	081030-3-015	8J27096-BLK1	1	Oct/30/08	12:09:17 PM
16	081030-3-016	8J27096-BS1	1	Oct/30/08	12:14:57 PM
17	081030-3-017	IRJ1655-02	1	Oct/30/08	12:20:36 PM
18	081030-3-018	8J27096-MS1	1	Oct/30/08	12:26:15 PM
19	081030-3-019	8J27096-MSD1	1	Oct/30/08	12:31:54 PM
20	081030-3-020	IRJ1655-01	1	Oct/30/08	12:37:33 PM
21	081030-3-021	IRJ2118-01	1	Oct/30/08	12:43:19 PM
22	081030-3-022	IRJ2560-03	1	Oct/30/08	12:49:03 PM
23	081030-3-023	IRJ2560-04	1	Oct/30/08	12:54:44 PM
24	081030-3-024	IRJ2149-01	1	Oct/30/08	1:00:23 PM
25	081030-3-025	SEQUENCE-CCV1	1	Oct/30/08	1:07:24 PM
26	081030-3-026	SEQUENCE-CCB1	1	Oct/30/08	1:13:04 PM
27	081030-3-027	SEQUENCE-BP1-1	1	Oct/30/08	1:19:31 PM
28	081030-3-028	SEQUENCE-BP2-1	1	Oct/30/08	1:25:10 PM
29	081030-3-029	SEQUENCE-BPA-1	1	Oct/30/08	1:30:50 PM
30	081030-3-030	SEQUENCE-BPB-1	1	Oct/30/08	1:36:57 PM
31	081030-3-031	IRJ2118-01	1	Oct/30/08	1:45:30 PM
32	081030-3-032	IRJ2149-01	1	Oct/30/08	1:51:12 PM
33	081030-3-033	8J29123-BLK1	1	Oct/30/08	1:56:53 PM
34	081030-3-034	8J29123-BS1	1	Oct/30/08	2:02:33 PM
35	081030-3-035	IRJ2191-01	1	Oct/30/08	2:08:16 PM
36	081030-3-036	8J29123-MS1	1	Oct/30/08	2:13:58 PM
37	081030-3-037	SEQUENCE-CCV2	1	Oct/30/08	2:19:38 PM
38	081030-3-038	SEQUENCE-CCB2	1	Oct/30/08	2:25:19 PM
39	081030-3-039	8J29123-MSD1	1	Oct/30/08	2:29:36 PM
40	081030-3-040	IRJ2191-02	1	Oct/30/08	2:35:19 PM
41	081030-3-041	IRJ2191-03	1	Oct/30/08	2:41:04 PM
42	081030-3-042	IRJ2594-01	1	Oct/30/08	2:46:47 PM
43	081030-3-043	8J30067-BLK1	1	Oct/30/08	2:52:28 PM
44	081030-3-044	8J30067-BS1	1	Oct/30/08	2:58:10 PM
45	081030-3-045	IRJ2811-01	1	Oct/30/08	3:03:52 PM
46	081030-3-046	8J30067-MS1	1	Oct/30/08	3:09:40 PM
47	081030-3-047	8J30067-MSD1	1	Oct/30/08	3:15:29 PM
48	081030-3-048	SEQUENCE-CCV3	1	Oct/30/08	3:21:18 PM
49	081030-3-049	SEQUENCE-CCB3	1	Oct/30/08	3:26:58 PM
50	081030-3-050	IRJ2799-01	1	Oct/30/08	3:34:15 PM
51	081030-3-051	IRJ2799-02	1	Oct/30/08	3:39:54 PM
52	081030-3-052	IRJ1929-38	1	Oct/30/08	3:45:33 PM
53	081030-3-053	IRJ1929-39	1	Oct/30/08	3:51:11 PM
54	081030-3-054	IRJ1929-40	1	Oct/30/08	3:56:49 PM
55	081030-3-055	8J25046-BLK1	1	Oct/30/08	4:02:26 PM
56	081030-3-056	8J25046-BS1	1	Oct/30/08	4:08:06 PM
57	081030-3-057	SEQUENCE-CCV4	1	Oct/30/08	4:31:20 PM
58	081030-3-058	SEQUENCE-CCB4	1	Oct/30/08	4:37:00 PM
59	081030-3-059	IRJ1929-21	1	Oct/30/08	4:44:09 PM
60	081030-3-060	8J25046-MS1	1	Oct/30/08	4:49:51 PM
61	081030-3-061	8J25046-MSD1	1	Oct/30/08	4:55:35 PM
62	081030-3-062	IRJ1929-25	1	Oct/30/08	5:01:18 PM
63	081030-3-063	8J25060-BLK1	1	Oct/30/08	5:06:57 PM

64	081030-3-064	8J25060-BS1	1	Oct/30/08	5:12:36 PM
65	081030-3-065	IRJ1929-01	1	Oct/30/08	5:18:15 PM
66	081030-3-066	8J25060-MS1	1	Oct/30/08	5:24:03 PM
67	081030-3-067	8J25060	1	Oct/30/08	5:29:49 PM
68	081030-3-068	IRJ1929-02	1	Oct/30/08	5:35:35 PM
69	081030-3-069 Na ↓	SEQUENCE-CCV5	1	Oct/30/08	5:41:14 PM
70	081030-3-070	SEQUENCE-CCB5	1	Oct/30/08	5:46:54 PM
71	081030-3-071	IRJ2565-06	1	Oct/30/08	5:53:25 PM
72	081030-3-072	IRJ1929-03	1	Oct/30/08	5:59:07 PM
73	081030-3-073	IRJ1929-04	1	Oct/30/08	6:04:53 PM
74	081030-3-074	IRJ1929-05	1	Oct/30/08	6:10:34 PM
75	081030-3-075	IRJ1929-06	1	Oct/30/08	6:16:21 PM
76	081030-3-076	IRJ1929-07	1	Oct/30/08	6:22:01 PM
77	081030-3-077	IRJ1929-08	1	Oct/30/08	6:27:45 PM
78	081030-3-078	IRJ1929-09	1	Oct/30/08	6:33:23 PM
79	081030-3-079	IRJ1929-10	1	Oct/30/08	6:39:02 PM
80	081030-3-080	IRJ1929-11	1	Oct/30/08	6:44:42 PM
81	081030-3-081	SEQUENCE-CCV6	1	Oct/30/08	6:50:28 PM
82	081030-3-082 Na ↓	SEQUENCE-CCV7	1	Oct/30/08	7:05:18 PM
83	081030-3-083	SEQUENCE-CCB7	1	Oct/30/08	7:10:57 PM
84	081030-3-084	IRJ1929-12	1	Oct/30/08	7:17:15 PM
85	081030-3-085	IRJ1929-13	1	Oct/30/08	7:22:54 PM
86	081030-3-086	IRJ1929-14	1	Oct/30/08	7:28:39 PM
87	081030-3-087	IRJ1929-15	1	Oct/30/08	7:34:19 PM
88	081030-3-088	IRJ1929-16	1	Oct/30/08	7:40:05 PM
89	081030-3-089	IRJ1929-17	1	Oct/30/08	7:45:46 PM
90	081030-3-090	IRJ1929-18	1	Oct/30/08	7:51:33 PM
91	081030-3-091	IRJ1929-19	1	Oct/30/08	7:57:16 PM
92	081030-3-092	IRJ1929-20	1	Oct/30/08	8:02:58 PM
93	081030-3-093	8J25065-BLK1	1	Oct/30/08	8:08:37 PM
94	081030-3-094 Na ↓	SEQUENCE-CCV8	1	Oct/30/08	8:15:03 PM
95	081030-3-095	SEQUENCE-CCB8	1	Oct/30/08	8:20:44 PM

Na not reported from this sequence

ICP
INITIAL CALIBRATION VERIFICATION SUMMARY

Instrument:	ICP4	Labnumber:	IK80303-ICV1
Data File/Seq.#:	081103-1	Filename:	081103-1-008
		Analyzed:	Nov/03/08 9:12:32 AM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	2	2.011	101	90-110	
2	Antimony	2	1.993	100	90-110	
3	Arsenic	2	1.977	99	90-110	
4	Barium	2	2.131	107	90-110	
5	Beryllium	2	2.021	101	90-110	
6	Boron	2	2.001	100	90-110	
7	Cadmium	2	1.962	98	90-110	
8	Calcium	2	2.054	103	90-110	
9	Chromium	2	2.004	100	90-110	
10	Cobalt	2	2.005	100	90-110	
11	Copper	2	1.995	100	90-110	
12	Iron	2	2.761	138	90-110	*
13	Lead	2	1.989	99	90-110	
14	Lithium	2	1.987	99	90-110	
15	Magnesium	2	2.039	102	90-110	
16	Manganese	2	2.012	101	90-110	
17	Molybdenum	2	1.94	97	90-110	
18	Nickel	2	2.005	100	90-110	
19	Phosphorus	2	1.929	96	90-110	
20	Potassium	20	20.257	101	90-110	
21	Selenium	2	1.948	97	90-110	
22	Silicon	10	10.169	102	90-110	
23	Silver	1	1.011	101	90-110	
24	Sodium	20	19.596	98	90-110	
25	Strontium	2	1.952	98	90-110	
26	Thallium	2	2.038	102	90-110	
27	Tin	2	1.979	99	90-110	
28	Titanium	2	2.043	102	90-110	
29	Vanadium	2	2.015	101	90-110	
30	Zinc	2	1.982	99	90-110	

See rerun

(*) = Out of range

==========

alysis Begun

Start Time: 11/3/2008 9:34:25 AM
Logged In Analyst: optima
Spectrometer Model: Optima 4300 DV, S/N 077N1100901

Plasma On Time: 11/3/2008 7:31:20 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\optima\Sample Information\081103-1.sif
Batch ID:
Results Data Set: 081103-1
Results Library: C:\pe\optima\Results\Results.mdb

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Sequence No.: 1
Sample ID: FE 2.0 PPM
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 45
Date Collected: 11/3/2008 9:34:26 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

ICV rerun for Fe

Mean Data: FE 2.0 PPM

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	7094088.7	99.68	%	0.328				0.33%
Ag 328.068†	-16.1	0.0004	mg/L	0.00028	0.0004	mg/L	0.00028	63.72%
Al 308.215†	-156.9	-0.0053	mg/L	0.00217	-0.0053	mg/L	0.00217	41.11%
As 188.979†	0.8	0.0014	mg/L	0.00282	0.0014	mg/L	0.00282	207.56%
B 249.772†	34.4	-0.0008	mg/L	0.00087	-0.0008	mg/L	0.00087	103.20%
Ba 233.527†	13.0	0.0002	mg/L	0.00015	0.0002	mg/L	0.00015	82.02%
Be 313.107†	24.0	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	36.56%
Ca 315.887†	-145.6	-0.0018	mg/L	0.00049	-0.0018	mg/L	0.00049	27.39%
Cd 214.440†	7.1	0.0001	mg/L	0.00008	0.0001	mg/L	0.00008	151.61%
Co 228.616†	15.5	0.0004	mg/L	0.00020	0.0004	mg/L	0.00020	54.45%
Cr 205.560†	-0.5	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	15.10%
Cu 324.752†	-95.9	-0.0001	mg/L	0.00019	-0.0001	mg/L	0.00019	191.37%
Fe 238.204†	186330.9	2.192	mg/L	0.0217	2.192	mg/L	0.0217	0.99%
K 766.490†	-122.5	-0.1131	mg/L	0.13706	-0.1131	mg/L	0.13706	121.23%
Li 610.362†	-752.0	-0.0053	mg/L	0.00042	-0.0053	mg/L	0.00042	8.01%
Mg 279.077†	6.8	0.0003	mg/L	0.00891	0.0003	mg/L	0.00891	>999.9%
Mn 257.610†	-96.6	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	53.48%
Mo 202.031†	0.8	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	37.62%
Na 589.592†	-35.6	-0.0530	mg/L	0.06133	-0.0530	mg/L	0.06133	115.77%
Ni 231.604†	5.1	0.0002	mg/L	0.00023	0.0002	mg/L	0.00023	129.96%
P 214.914†	0.6	0.0001	mg/L	0.00053	0.0001	mg/L	0.00053	708.35%
Pb 220.353†	-5.2	-0.0009	mg/L	0.00085	-0.0009	mg/L	0.00085	94.90%
Sb 206.836†	-3.2	-0.0015	mg/L	0.00147	-0.0015	mg/L	0.00147	98.36%
Se 196.026†	0.8	0.0013	mg/L	0.00004	0.0013	mg/L	0.00004	3.31%
Si 251.611†	64.9	0.0021	mg/L	0.00022	0.0021	mg/L	0.00022	10.22%
Sn 189.927†	-3.7	-0.0013	mg/L	0.00085	-0.0013	mg/L	0.00085	62.80%
Sr 421.552†	80.0	0.0006	mg/L	0.00002	0.0006	mg/L	0.00002	2.81%
Ti 334.940†	55.5	0.0001	mg/L	0.00013	0.0001	mg/L	0.00013	105.28%
Tl 190.801†	3.4	0.0025	mg/L	0.00044	0.0025	mg/L	0.00044	17.56%
V 292.402†	8.1	0.0002	mg/L	0.00064	0.0002	mg/L	0.00064	418.85%
Zn 213.857†	56.1	0.0006	mg/L	0.00005	0.0006	mg/L	0.00005	9.74%

Fe within limits.

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: **ICP4**
Data File/Seq.#: 081103-1

Labnumber: IK80303-CCV1
Filename: 081103-1-023
Analyzed: Nov/03/08 10:46:33 AM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.99	99	90-110	
2	Antimony	1	1.002	100	90-110	
3	Arsenic	1	1.009	101	90-110	
4	Barium	1	1.017	102	90-110	
5	Beryllium	1	1.007	101	90-110	
6	Boron	1	1.009	101	90-110	
7	Cadmium	1	1.019	102	90-110	
8	Calcium	10	10.118	101	90-110	
9	Chromium	1	1.013	101	90-110	
10	Cobalt	1	1.016	102	90-110	
11	Copper	1	1.015	101	90-110	
12	Iron	1	1.031	103	90-110	
13	Lead	1	1.014	101	90-110	
14	Lithium	1	0.981	98	90-110	
15	Magnesium	1	1.031	103	90-110	
16	Manganese	1	1.015	101	90-110	
17	Molybdenum	1	1.012	101	90-110	
18	Nickel	1	1.025	102	90-110	
19	Phosphorus	1	0.992	99	90-110	
20	Potassium	10	9.904	99	90-110	
21	Selenium	1	1.008	101	90-110	
22	Silicon	5	4.937	99	90-110	
23	Silver	0.5	0.509	102	90-110	
24	Sodium	10	9.54	95	90-110	
25	Strontium	1	0.986	99	90-110	
26	Thallium	1	1.005	100	90-110	
27	Tin	1	1.017	102	90-110	
28	Titanium	1	1.018	102	90-110	
29	Vanadium	1	1.035	103	90-110	
30	Zinc	1	1.009	101	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: **ICP4**
Data File/Seq.#: 081103-1

Labnumber: IK80303-CCV2
Filename: 081103-1-025
Analyzed: Nov/03/08 11:00:26 AM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.991	99	90-110	
2	Antimony	1	0.997	100	90-110	
3	Arsenic	1	1.004	100	90-110	
4	Barium	1	1.014	101	90-110	
5	Beryllium	1	1.01	101	90-110	
6	Boron	1	1.004	100	90-110	
7	Cadmium	1	1.015	101	90-110	
8	Calcium	10	10.053	101	90-110	
9	Chromium	1	1.011	101	90-110	
10	Cobalt	1	1.014	101	90-110	
11	Copper	1	1.018	102	90-110	
12	Iron	1	1.026	103	90-110	
13	Lead	1	1.007	101	90-110	
14	Lithium	1	0.988	99	90-110	
15	Magnesium	1	1.026	103	90-110	
16	Manganese	1	1.015	101	90-110	
17	Molybdenum	1	1.009	101	90-110	
18	Nickel	1	1.024	102	90-110	
19	Phosphorus	1	0.982	98	90-110	
20	Potassium	10	9.989	100	90-110	
21	Selenium	1	0.991	99	90-110	
22	Silicon	5	4.958	99	90-110	
23	Silver	0.5	0.513	103	90-110	
24	Sodium	10	9.706	97	90-110	
25	Strontium	1	0.996	100	90-110	
26	Thallium	1	0.998	100	90-110	
27	Tin	1	1.012	101	90-110	
28	Titanium	1	1.03	103	90-110	
29	Vanadium	1	1.036	104	90-110	
30	Zinc	1	1.009	101	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: **ICP4**
Data File/Seq.#: 081103-1

Labnumber: IK80303-CCV3
Filename: 081103-1-037
Analyzed: Nov/03/08 12:08:34 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.974	97	90-110	
2	Antimony	1	0.997	100	90-110	
3	Arsenic	1	0.999	100	90-110	
4	Barium	1	1.013	101	90-110	
5	Beryllium	1	1.012	101	90-110	
6	Boron	1	0.987	99	90-110	
7	Cadmium	1	0.995	100	90-110	
8	Calcium	10	9.933	99	90-110	
9	Chromium	1	1	100	90-110	
10	Cobalt	1	1.001	100	90-110	
11	Copper	1	0.996	100	90-110	
12	Iron	1	1.006	101	90-110	
13	Lead	1	1.001	100	90-110	
14	Lithium	1	1.023	102	90-110	
15	Magnesium	1	1.014	101	90-110	
16	Manganese	1	0.999	100	90-110	
17	Molybdenum	1	0.998	100	90-110	
18	Nickel	1	1.006	101	90-110	
19	Phosphorus	1	0.979	98	90-110	
20	Potassium	10	9.862	99	90-110	
21	Selenium	1	1.012	101	90-110	
22	Silicon	5	4.876	98	90-110	
23	Silver	0.5	0.498	100	90-110	
24	Sodium	10	9.669	97	90-110	
25	Strontium	1	0.989	99	90-110	
26	Thallium	1	0.993	99	90-110	
27	Tin	1	1.007	101	90-110	
28	Titanium	1	0.988	99	90-110	
29	Vanadium	1	1.01	101	90-110	
30	Zinc	1	0.989	99	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: **ICP4**
Data File/Seq.#: 081103-1

Labnumber: IK80303-CCV4
Filename: 081103-1-049
Analyzed: Nov/03/08 1:15:09 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.997	100	90-110	
2	Antimony	1	0.996	100	90-110	
3	Arsenic	1	0.998	100	90-110	
4	Barium	1	1.042	104	90-110	
5	Beryllium	1	1.019	102	90-110	
6	Boron	1	0.99	99	90-110	
7	Cadmium	1	1.022	102	90-110	
8	Calcium	10	10.132	101	90-110	
9	Chromium	1	0.995	100	90-110	
10	Cobalt	1	1.027	103	90-110	
11	Copper	1	1.018	102	90-110	
12	Iron	1	1.036	104	90-110	
13	Lead	1	0.998	100	90-110	
14	Lithium	1	1.018	102	90-110	
15	Magnesium	1	1.041	104	90-110	
16	Manganese	1	1.025	102	90-110	
17	Molybdenum	1	0.994	99	90-110	
18	Nickel	1	1.011	101	90-110	
19	Phosphorus	1	0.974	97	90-110	
20	Potassium	10	9.626	96	90-110	
21	Selenium	1	1.022	102	90-110	
22	Silicon	5	5.042	101	90-110	
23	Silver	0.5	0.512	102	90-110	
24	Sodium	10	9.655	97	90-110	
25	Strontium	1	0.982	98	90-110	
26	Thallium	1	0.99	99	90-110	
27	Tin	1	1.004	100	90-110	
28	Titanium	1	1.004	100	90-110	
29	Vanadium	1	1.02	102	90-110	
30	Zinc	1	1.016	102	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: **ICP4**
Data File/Seq.#: 081103-1

Labnumber: IK80303-CCV5
Filename: 081103-1-061
Analyzed: Nov/03/08 2:22:00 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	0.997	100	90-110	
2	Antimony	1	0.998	100	90-110	
3	Arsenic	1	0.998	100	90-110	
4	Barium	1	1.038	104	90-110	
5	Beryllium	1	1.017	102	90-110	
6	Boron	1	1.002	100	90-110	
7	Cadmium	1	1.027	103	90-110	
8	Calcium	10	10.126	101	90-110	
9	Chromium	1	1.001	100	90-110	
10	Cobalt	1	1.029	103	90-110	
11	Copper	1	1.021	102	90-110	
12	Iron	1	1.037	104	90-110	
13	Lead	1	1.003	100	90-110	
14	Lithium	1	1.009	101	90-110	
15	Magnesium	1	1.047	105	90-110	
16	Manganese	1	1.028	103	90-110	
17	Molybdenum	1	0.997	100	90-110	
18	Nickel	1	1.035	103	90-110	
19	Phosphorus	1	0.982	98	90-110	
20	Potassium	10	9.868	99	90-110	
21	Selenium	1	1.009	101	90-110	
22	Silicon	5	5.06	101	90-110	
23	Silver	0.5	0.511	102	90-110	
24	Sodium	10	9.71	97	90-110	
25	Strontium	1	1.006	101	90-110	
26	Thallium	1	0.995	100	90-110	
27	Tin	1	1.007	101	90-110	
28	Titanium	1	1.016	102	90-110	
29	Vanadium	1	1.029	103	90-110	
30	Zinc	1	1.017	102	90-110	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION VERIFICATION SUMMARY

Instrument: **ICP4**
Data File/Seq.#: 081103-1

Labnumber: IK80303-CCV6
Filename: 081103-1-073
Analyzed: Nov/03/08 3:29:34 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	1	1	100	90-110	
2	Antimony	1	1	100	90-110	
3	Arsenic	1	1.009	101	90-110	
4	Barium	1	1.05	105	90-110	
5	Beryllium	1	1.019	102	90-110	
6	Boron	1	0.993	99	90-110	
7	Cadmium	1	1.027	103	90-110	
8	Calcium	10	10.103	101	90-110	
9	Chromium	1	1.004	100	90-110	
10	Cobalt	1	1.033	103	90-110	
11	Copper	1	1.022	102	90-110	
12	Iron	1	1.054	105	90-110	
13	Lead	1	1.006	101	90-110	
14	Lithium	1	1.022	102	90-110	
15	Magnesium	1	1.047	105	90-110	
16	Manganese	1	1.031	103	90-110	
17	Molybdenum	1	1.002	100	90-110	
18	Nickel	1	1.039	104	90-110	
19	Phosphorus	1	0.978	98	90-110	
20	Potassium	10	9.893	99	90-110	
21	Selenium	1	1.013	101	90-110	
22	Silicon	5	5.064	101	90-110	
23	Silver	0.5	0.512	102	90-110	
24	Sodium	10	9.982	100	90-110	
25	Strontium	1	1.012	101	90-110	
26	Thallium	1	1.001	100	90-110	
27	Tin	1	1.008	101	90-110	
28	Titanium	1	1.01	101	90-110	
29	Vanadium	1	1.03	103	90-110	
30	Zinc	1	1.018	102	90-110	

(*) = Out of range

ICP
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument:	**ICP4**	Labnumber:	IK80303-CRL1	
Data File/Seq.#:	081103-1	Filename:	081103-1-010	
		Analyzed:	Nov/03/08	9:23:39 AM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	0.1	0.149	149	50-150	
3	Arsenic	0.01	0.0089	89	50-150	
5	Beryllium	0.01	0.0101	101	50-150	
6	Boron	0.1	0.0988	99	50-150	
7	Cadmium	0.01	0.0103	103	50-150	
8	Calcium	0.2	0.2417	121	50-150	
9	Chromium	0.01	0.0105	105	50-150	
12	Iron	0.08	0.1808	226	50-150	*
13	Lead	0.01	0.0086	86	50-150	
15	Magnesium	0.04	0.0381	95	50-150	
16	Manganese	0.01	0.0104	104	50-150	
19	Phosphorus	1	0.0047		50-150	
20	Potassium	1	0.9489	95	50-150	
24	Sodium	1	0.9771	98	50-150	
28	Titanium	0.01	0.0107	107	50-150	

(*) = Out of range

sample results >> spike
no impact

ICP
REPORTING LIMIT VERIFICATION SUMMARY (20 ppb)

Instrument:	**ICP4**	Labnumber:	IK80303-CRL2
Data File/Seq.#:	081103-1	Filename:	081103-1-011
		Analyzed:	Nov/03/08 9:29:14 AM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
2	Antimony	0.02	0.0192	96	50-150	
4	Barium	0.02	0.0208	104	50-150	
10	Cobalt	0.02	0.0208	104	50-150	
11	Copper	0.02	0.0199	100	50-150	
14	Lithium	0.02	0.0168	84	50-150	
17	Molybdenum	0.02	0.0203	101	50-150	
18	Nickel	0.02	0.021	105	50-150	
21	Selenium	0.02	0.0224	112	50-150	
22	Silicon	0.1	0.1003	100	50-150	
23	Silver	0.01	0.0096	96	50-150	
25	Strontium	0.02	0.0204	102	50-150	
26	Thallium	0.02	0.0221	111	50-150	
27	Tin	0.02	0.021	105	50-150	
29	Vanadium	0.02	0.0214	107	50-150	
30	Zinc	0.02	0.02	100	50-150	

(*) = Out of range

ICP
REPORTING LIMIT VERIFICATION SUMMARY (2 x MRL)

Instrument: **ICP4**
Data File/Seq.#: 081103-1

Labnumber: IK80303-BP CHK-
Filename: 081103-1-069
Analyzed: Nov/03/08 3:05:16 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
1	Aluminum	0.1	0.143	143	50-150	
3	Arsenic	0.01	0.0105	105	50-150	
5	Beryllium	0.01	0.0103	103	50-150	
6	Boron	0.1	0.1035	103	50-150	
7	Cadmium	0.01	0.0103	103	50-150	
8	Calcium	0.2	0.2443	122	50-150	
9	Chromium	0.01	0.0105	105	50-150	
12	Iron	0.08	0.0821	103	50-150	
13	Lead	0.01	0.0101	101	50-150	
15	Magnesium	0.04	0.0399	100	50-150	
16	Manganese	0.01	0.0106	106	50-150	
19	Phosphorus	1	0.0124	1	50-150	*
20	Potassium	1	0.9599	96	50-150	
24	Sodium	1	0.9959	100	50-150	
28	Titanium	0.01	0.0105	105	50-150	

(*) = Out of range

ICP
REPORTING LIMIT VERIFICATION SUMMARY (20 ppb)

Instrument:	**ICP4**	Labnumber:	IK80303-BP CHK-
Data File/Seq.#:	081103-1	Filename:	081103-1-070
		Analyzed:	Nov/03/08 3:10:50 PM

	Analyte	Conc (mg/L)		% Rec	%Limits	Q
		True	Found			
2	Antimony	0.02	0.0197	99	50-150	
4	Barium	0.02	0.0207	103	50-150	
10	Cobalt	0.02	0.0206	103	50-150	
11	Copper	0.02	0.0202	101	50-150	
14	Lithium	0.02	0.0189	95	50-150	
17	Molybdenum	0.02	0.0202	101	50-150	
18	Nickel	0.02	0.021	105	50-150	
21	Selenium	0.02	0.0188	94	50-150	
22	Silicon	0.1	0.0981	98	50-150	
23	Silver	0.01	0.0103	103	50-150	
25	Strontium	0.02	0.0206	103	50-150	
26	Thallium	0.02	0.0199	100	50-150	
27	Tin	0.02	0.0194	97	50-150	
29	Vanadium	0.02	0.0198	99	50-150	
30	Zinc	0.02	0.0198	99	50-150	

(*) = Out of range

ICP
INITIAL CALIBRATION BLANK SUMMARY

Instrument:	**ICP4**	Labnumber:	IK80303-ICB1	
Data File/Seq.#:	081103-1	Filename:	081103-1-009	
		Analyzed:	Nov/03/08	9:18:05 AM

	Analyte	Conc (mg/L)		Q	
		MRL	Found		
1	Aluminum	0.05	-0.003		
2	Antimony	0.01	0.002		
3	Arsenic	0.005	0.003		
4	Barium	0.01	0		
5	Beryllium	0.05	0		
6	Boron	0.05	0.011		
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		
12	Iron	0.04	0.135	*	no impact
13	Lead	0.005	-0.001		
14	Lithium	0.05	-0.005		
15	Magnesium	0.5	-0.005		
16	Manganese	0.02	0		
17	Molybdenum	0.02	0.002		
18	Nickel	0.01	0		
19	Phosphorus	0.5	-0.001		
20	Potassium	0.5	0.002		
21	Selenium	0.01	0.005		
22	Silicon	0.05	0.003		
23	Silver	0.01	0.001		
24	Sodium	0.5	0.042		
25	Strontium	0.02	0		
26	Thallium	0.01	0.003		
27	Tin	0.1	0.001		
28	Titanium	0.005	0.001		
29	Vanadium	0.01	-0.001		
30	Zinc	0.02	0		

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	**ICP4**	Labnumber:	IK80303-CCB1	
Data File/Seq.#:	081103-1	Filename:	081103-1-024	
		Analyzed:	Nov/03/08	10:52:08 AM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.012	
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	0.007	
7	Cadmium	0.005	0	
8	Calcium	0.1	-0.003	
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	-0.008	
15	Magnesium	0.5	-0.005	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0.001	
18	Nickel	0.01	0	
19	Phosphorus	0.5	-0.005	
20	Potassium	0.5	-0.046	
21	Selenium	0.01	0.002	
22	Silicon	0.05	0.001	
23	Silver	0.01	0	
24	Sodium	0.5	-0.051	
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	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	**ICP4**	Labnumber:	IK80303-CCB2	
Data File/Seq.#:	081103-1	Filename:	081103-1-026	
		Analyzed:	Nov/03/08	11:06:01 AM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.013	
2	Antimony	0.01	0.003	
3	Arsenic	0.005	0.002	
4	Barium	0.01	0	
5	Beryllium	0.05	0	
6	Boron	0.05	0.006	
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	
13	Lead	0.005	-0.001	
14	Lithium	0.05	-0.005	
15	Magnesium	0.5	-0.004	
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	-0.099	
21	Selenium	0.01	0.002	
22	Silicon	0.05	-0.001	
23	Silver	0.01	0	
24	Sodium	0.5	0.035	
25	Strontium	0.02	0.001	
26	Thallium	0.01	0.001	
27	Tin	0.1	-0.001	
28	Titanium	0.005	0	
29	Vanadium	0.01	0	
30	Zinc	0.02	0	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	**ICP4**	Labnumber:	IK80303-CCB3	
Data File/Seq.#:	081103-1	Filename:	081103-1-038	
		Analyzed:	Nov/03/08	12:14:10 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.003	
2	Antimony	0.01	0.003	
3	Arsenic	0.005	0.002	
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	-0.004	
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	-0.001	
14	Lithium	0.05	-0.006	
15	Magnesium	0.5	0	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0	
18	Nickel	0.01	0	
19	Phosphorus	0.5	0.002	
20	Potassium	0.5	0.021	
21	Selenium	0.01	0.003	
22	Silicon	0.05	0.003	
23	Silver	0.01	0.001	
24	Sodium	0.5	-0.01	
25	Strontium	0.02	0	
26	Thallium	0.01	0.004	
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 BLANK SUMMARY

Instrument:	**ICP4**	Labnumber:	IK80303-CCB4	
Data File/Seq.#:	081103-1	Filename:	081103-1-050	
		Analyzed:	Nov/03/08	1:20:44 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.001	
2	Antimony	0.01	0.001	
3	Arsenic	0.005	0	
4	Barium	0.01	0	
5	Beryllium	0.05	0	
6	Boron	0.05	0.006	
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	
12	Iron	0.04	-0.003	
13	Lead	0.005	-0.001	
14	Lithium	0.05	-0.006	
15	Magnesium	0.5	-0.002	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0	
18	Nickel	0.01	0	
19	Phosphorus	0.5	-0.002	
20	Potassium	0.5	0.004	
21	Selenium	0.01	-0.002	
22	Silicon	0.05	0	
23	Silver	0.01	-0.001	
24	Sodium	0.5	0.092	
25	Strontium	0.02	0	
26	Thallium	0.01	0.001	
27	Tin	0.1	0	
28	Titanium	0.005	0	
29	Vanadium	0.01	-0.001	
30	Zinc	0.02	0	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	**ICP4**	Labnumber:	IK80303-CCB5	
Data File/Seq.#:	081103-1	Filename:	081103-1-062	
		Analyzed:	Nov/03/08	2:27:34 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.003	
2	Antimony	0.01	0.001	
3	Arsenic	0.005	-0.002	
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	-0.004	
9	Chromium	0.005	0	
10	Cobalt	0.01	0	
11	Copper	0.01	0	
12	Iron	0.04	-0.004	
13	Lead	0.005	-0.001	
14	Lithium	0.05	-0.008	
15	Magnesium	0.5	-0.004	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0	
18	Nickel	0.01	0.001	
19	Phosphorus	0.5	0	
20	Potassium	0.5	-0.013	
21	Selenium	0.01	0.001	
22	Silicon	0.05	0.001	
23	Silver	0.01	0	
24	Sodium	0.5	0.06	
25	Strontium	0.02	0	
26	Thallium	0.01	0.001	
27	Tin	0.1	0	
28	Titanium	0.005	0	
29	Vanadium	0.01	-0.001	
30	Zinc	0.02	0	

(*) = Out of range

ICP
CONTINUOUS CALIBRATION BLANK SUMMARY

Instrument:	**ICP4**	Labnumber:	IK80303-CCB6	
Data File/Seq.#:	081103-1	Filename:	081103-1-074	
		Analyzed:	Nov/03/08	3:35:08 PM

	Analyte	Conc (mg/L)		Q
		MRL	Found	
1	Aluminum	0.05	-0.005	
2	Antimony	0.01	0.001	
3	Arsenic	0.005	0.002	
4	Barium	0.01	0	
5	Beryllium	0.05	0	
6	Boron	0.05	0.011	
7	Cadmium	0.005	0	
8	Calcium	0.1	-0.003	
9	Chromium	0.005	0	
10	Cobalt	0.01	0	
11	Copper	0.01	0	
12	Iron	0.04	0.005	
13	Lead	0.005	-0.001	
14	Lithium	0.05	-0.005	
15	Magnesium	0.5	0.003	
16	Manganese	0.02	0	
17	Molybdenum	0.02	0	
18	Nickel	0.01	0	
19	Phosphorus	0.5	0	
20	Potassium	0.5	-0.009	
21	Selenium	0.01	0	
22	Silicon	0.05	0.001	
23	Silver	0.01	0	
24	Sodium	0.5	-0.001	
25	Strontium	0.02	0	
26	Thallium	0.01	0.001	
27	Tin	0.1	-0.001	
28	Titanium	0.005	0.001	
29	Vanadium	0.01	0	
30	Zinc	0.02	0	

(*) = Out of range

ICP
INTERFERENCE CHECK STANDARD SUMMARY

Instrument: ICP4
Data File/Seq.#: 081103-1

ICSA File name: 081103-1-005
ICSA Analyzed: Nov/03/08 8:57:04 AM
ICSAB File name: 081103-1-006
ICSAB Analyzed: Nov/03/08 9:01:19 AM

	Analyte	True (mg/L)		Found (mg/L)		% Rec	%Limits	Q	Q
		ICSA	ICSAB	ICSA	ICSAB	(ICSAB)	(ICSAB)	(ICSA)	(ICSAB)
1	Aluminum	500	500	433.301	424.866	85	80-120		
2	Antimony	0	0.5	0.003	0.475	95	80-120		
3	Arsenic	0	0.5	-0.003	0.488	98	80-120		
4	Barium	0	0.5	0.005	0.509	102	80-120		
5	Beryllium	0	0.5	0	0.512	102	80-120		
6	Boron	0	0.5	-0.019	0.491	98	80-120		
7	Cadmium	0	0.5	0.001	0.497	99	80-120		
8	Calcium	500	500	463.631	454.635	91	80-120		
9	Chromium	0	0.5	-0.002	0.498	100	80-120		
10	Cobalt	0	0.5	0.002	0.486	97	80-120		
11	Copper	0	0.5	0	0.535	107	80-120		
12	Iron	200	200	174.896	175.273	88	80-120		
13	Lead	0	0.5	0.001	0.485	97	80-120		
14	Lithium	0	0.5	0.005	0.522	104	80-120		
15	Magnesium	500	500	485.52	475.921	95	80-120		
16	Manganese	0	0.5	0.009	0.517	103	80-120		
17	Molybdenum	0	0.5	0.004	0.486	97	80-120		
18	Nickel	0	0.5	-0.002	0.486	97	80-120		
19	Phosphorus	0	0.5	0.018	0.516	103	80-120		
20	Potassium	0	10	-0.037	11.974	120	80-120		
21	Selenium	0	0.5	0.001	0.446	89	80-120		
22	Silicon	0	2.5	-0.001	2.395	96	80-120		
23	Silver	0	0.25	0.002	0.271	108	80-120		
24	Sodium	0	10	0.016	11.563	116	80-120		
25	Strontium	0	0.5	-0.009	0.512	102	80-120		
26	Thallium	0	0.5	-0.005	0.448	90	80-120		
27	Tin	0	0.5	-0.028	0.461	92	80-120		
28	Titanium	0	0.5	0.004	0.516	103	80-120		
29	Vanadium	0	0.5	-0.002	0.512	102	80-120		
30	Zinc	0	0.5	-0.022	0.48	96	80-120		

	ICSA	ICSAB
Acceptance Limits:	+ / - 2xRL	80-120%

(*) : out of QC limits

no impact

ICP
INTERFERENCE CHECK STANDARD SUMMARY

Instrument: **ICP4**
Data File/Seq.#: 081103-1

ICSA File name: 081103-1-071
ICSA Analyzed: Nov/03/08 3:16:37 PM
ICSAB File name: 081103-1-072
ICSAB Analyzed: Nov/03/08 3:22:26 PM

	Analyte	True (mg/L)		Found (mg/L)		% Rec	%Limits	Q	Q
		ICSA	ICSAB	ICSA	ICSAB	(ICSAB)	(ICSAB)	(ICSA)	(ICSAB)
1	Aluminum	500	500	427.267	418.812	84	80-120		
2	Antimony	0	0.5	0.004	0.49	98	80-120		
3	Arsenic	0	0.5	0.002	0.498	100	80-120		
4	Barium	0	0.5	0.004	0.514	103	80-120		
5	Beryllium	0	0.5	0	0.517	103	80-120		
6	Boron	0	0.5	-0.018	0.481	96	80-120		
7	Cadmium	0	0.5	0.001	0.493	99	80-120		
8	Calcium	500	500	457.004	448.187	90	80-120		
9	Chromium	0	0.5	-0.001	0.498	100	80-120		
10	Cobalt	0	0.5	0.002	0.488	98	80-120		
11	Copper	0	0.5	0	0.529	106	80-120		
12	Iron	200	200	177.142	174.479	87	80-120		
13	Lead	0	0.5	0.001	0.484	97	80-120		
14	Lithium	0	0.5	0.008	0.522	104	80-120		
15	Magnesium	500	500	490.476	479.64	96	80-120		
16	Manganese	0	0.5	0.009	0.514	103	80-120		
17	Molybdenum	0	0.5	0.003	0.498	100	80-120		
18	Nickel	0	0.5	-0.002	0.489	98	80-120		
19	Phosphorus	0	0.5	0.022	0.512	102	80-120		
20	Potassium	0	10	-0.106	11.755	118	80-120		
21	Selenium	0	0.5	-0.003	0.473	95	80-120		
22	Silicon	0	2.5	-0.005	2.383	95	80-120		
23	Silver	0	0.25	0.002	0.269	108	80-120		
24	Sodium	0	10	-0.031	11.161	112	80-120		
25	Strontium	0	0.5	-0.009	0.51	102	80-120		
26	Thallium	0	0.5	-0.002	0.45	90	80-120		
27	Tin	0	0.5	-0.023	0.467	93	80-120		
28	Titanium	0	0.5	0.005	0.508	102	80-120		
29	Vanadium	0	0.5	-0.002	0.509	102	80-120		
30	Zinc	0	0.5	-0.023	0.478	96	80-120		

	ICSA	ICSAB
Acceptance Limits:	+ / - 2xRL	80-120%

(*) : out of QC limits

no impact

RUN LOG

Intrument: ***ICP4***

Calib.file #: 081103-1 Calib. date: 11/3/2008

#	File_Name	Lab_Number	Dilution	Analyzed	Time
1	081103-1-001	Calib Blank 1	1	Nov/03/08	8:33:24 AM
2	081103-1-002	Calib Std 1	1	Nov/03/08	8:39:00 AM
3	081103-1-003	Calib Std 2	1	Nov/03/08	8:44:35 AM
4	081103-1-004	Calib std 3	1	Nov/03/08	8:50:11 AM
5	081103-1-005	IK80303-IFA1	1	Nov/03/08	8:55:50 AM
6	081103-1-006	IK80303-IFB1	1	Nov/03/08	9:00:03 AM
7	081103-1-007	RINSE	1	Nov/03/08	9:05:51 AM
8	081103-1-008 Fe ↑	IK80303-ICV1	1	Nov/03/08	9:11:26 AM
9	081103-1-009	IK80303-ICB1	1	Nov/03/08	9:17:03 AM
10	081103-1-010 "	IK80303-CRL1	1	Nov/03/08	9:22:36 AM
11	081103-1-011	IK80303-CRL2	1	Nov/03/08	9:28:12 AM
12	081103-1-012	FE 2.0 PPM ICV rerun for Fe	1	Nov/03/08	9:35:58 AM
13	081103-1-013	8J29109-BLK1	1	Nov/03/08	9:48:39 AM
14	081103-1-014	8J29109-BS1	1	Nov/03/08	9:54:15 AM
15	081103-1-015	IRJ2153-01	1	Nov/03/08	10:00:46 AM
16	081103-1-016	8J29109-MS1	1	Nov/03/08	10:06:21 AM
17	081103-1-017	8J29109-MSD1	1	Nov/03/08	10:11:57 AM
18	081103-1-018	IRJ2270-01	1	Nov/03/08	10:17:33 AM
19	081103-1-019	IRJ2270-02	1	Nov/03/08	10:23:07 AM
20	081103-1-020	IRJ2270-03	1	Nov/03/08	10:28:41 AM
21	081103-1-021	8J25060-BLK1	1	Nov/03/08	10:34:16 AM
22	081103-1-022	8J25060-BS1	1	Nov/03/08	10:39:51 AM
23	081103-1-023	IK80303-CCV1	1	Nov/03/08	10:45:29 AM
24	081103-1-024	IK80303-CCB1	1	Nov/03/08	10:51:06 AM
25	081103-1-025	IK80303-CCV2	1	Nov/03/08	10:59:21 AM
26	081103-1-026	IK80303-CCB2	1	Nov/03/08	11:04:59 AM
27	081103-1-027	IRJ1929-01	1	Nov/03/08	11:10:36 AM
28	081103-1-028	8J25060-MS1	1	Nov/03/08	11:16:21 AM
29	081103-1-029	8J25060	1	Nov/03/08	11:22:06 AM
30	081103-1-030	IRJ1929-02	1	Nov/03/08	11:27:51 AM
31	081103-1-031	IRJ1929-03	1	Nov/03/08	11:33:27 AM
32	081103-1-032	IRJ1929-04	1	Nov/03/08	11:39:11 AM
33	081103-1-033	IRJ1929-05	1	Nov/03/08	11:44:47 AM
34	081103-1-034	IRJ1929-06	1	Nov/03/08	11:50:31 AM
35	081103-1-035	IRJ1929-07	1	Nov/03/08	11:56:08 AM
36	081103-1-036	IRJ1929-08	1	Nov/03/08	12:01:53 PM
37	081103-1-037	IK80303-CCV3	1	Nov/03/08	12:07:30 PM
38	081103-1-038	IK80303-CCB3	1	Nov/03/08	12:13:07 PM
39	081103-1-039	IRJ1929-01	1	Nov/03/08	12:17:10 PM
40	081103-1-040	8J25060-MS1	1	Nov/03/08	12:22:53 PM
41	081103-1-041	8J25060	1	Nov/03/08	12:28:33 PM
42	081103-1-042	IRJ1929-09	1	Nov/03/08	12:34:12 PM
43	081103-1-043	IRJ1929-10	1	Nov/03/08	12:39:53 PM
44	081103-1-044	IRJ1929-11	1	Nov/03/08	12:45:31 PM
45	081103-1-045	IRJ1929-12	1	Nov/03/08	12:51:15 PM
46	081103-1-046	IRJ1929-13	1	Nov/03/08	12:56:57 PM
47	081103-1-047	IRJ1929-14	1	Nov/03/08	1:02:41 PM
48	081103-1-048	IRJ1929-15	1	Nov/03/08	1:08:21 PM
49	081103-1-049	IK80303-CCV4	1	Nov/03/08	1:14:05 PM
50	081103-1-050	IK80303-CCB4	1	Nov/03/08	1:19:42 PM
51	081103-1-051	IRJ1929-16	1	Nov/03/08	1:24:28 PM
52	081103-1-052	IRJ1929-17	1	Nov/03/08	1:30:05 PM
53	081103-1-053	IRJ1929-18	1	Nov/03/08	1:35:46 PM
54	081103-1-054	IRJ1929-19	1	Nov/03/08	1:41:25 PM
55	081103-1-055	IRJ1929-20	1	Nov/03/08	1:47:03 PM
56	081103-1-056	IRJ1929-20	1	Nov/03/08	1:52:41 PM
57	081103-1-057	IRJ1929-05	1	Nov/03/08	1:58:17 PM
58	081103-1-058	IRJ1929-07	1	Nov/03/08	2:03:56 PM
59	081103-1-059	IRJ1929-13	1	Nov/03/08	2:09:35 PM
60	081103-1-060	IRJ1929-15	1	Nov/03/08	2:15:16 PM
61	081103-1-061	IK80303-CCV5	1	Nov/03/08	2:20:55 PM
62	081103-1-062	IK80303-CCB5	1	Nov/03/08	2:26:31 PM
63	081103-1-063	IRJ1929-17	1	Nov/03/08	2:30:32 PM

64	081103-1-064	8J30114-BLK1	1	Nov/03/08	2:36:12 PM
65	081103-1-065	8J30114-BS1	1	Nov/03/08	2:41:48 PM
66	081103-1-066	IRJ1930-01	1	Nov/03/08	2:47:24 PM
67	081103-1-067	8J30114-MS1	1	Nov/03/08	2:53:01 PM
68	081103-1-068	8J30114-MSD1	1	Nov/03/08	2:58:38 PM
69	081103-1-069	IK80303-BP CHK-	1	Nov/03/08	3:04:13 PM
70	081103-1-070	IK80303-BP CHK-	1	Nov/03/08	3:09:48 PM
71	081103-1-071	IK80303-BPA2	1	Nov/03/08	3:15:23 PM
72	081103-1-072	IK80303-BPAB2	1	Nov/03/08	3:21:11 PM
73	081103-1-073	IK80303-CCV6	1	Nov/03/08	3:28:29 PM
74	081103-1-074	IK80303-CCB6	1	Nov/03/08	3:34:05 PM
75	081103-1-075	8J25065-BLK1	1	Nov/03/08	3:42:40 PM
76	081103-1-076	8J25065-BS1	1	Nov/03/08	3:48:20 PM
77	081103-1-077	IRJ2058-01	1	Nov/03/08	3:53:57 PM
78	081103-1-078	8J25065-MS1	1	Nov/03/08	3:59:43 PM
79	081103-1-079	8J25065-MSD1	1	Nov/03/08	4:05:30 PM
80	081103-1-080	IRJ2058-02	1	Nov/03/08	4:11:17 PM
81	081103-1-081	IRJ1655-01	1	Nov/03/08	4:17:11 PM
82	081103-1-082	IRJ2058-03	1	Nov/03/08	4:21:28 PM
83	081103-1-083	IRJ2058-04	1	Nov/03/08	4:27:15 PM
84	081103-1-084	IRJ2058-05	1	Nov/03/08	4:33:10 PM
85	081103-1-085	IK80303-CCV7	1	Nov/03/08	4:38:48 PM
86	081103-1-086	IK80303-CCB7	1	Nov/03/08	4:44:24 PM
87	081103-1-087	IRJ2058-06	1	Nov/03/08	4:50:26 PM
88	081103-1-088	IRJ1655-01	1	Nov/03/08	4:56:18 PM
89	081103-1-089	IRJ2058-07	1	Nov/03/08	5:02:17 PM
90	081103-1-090	IRJ1655-01	1	Nov/03/08	5:08:10 PM
91	081103-1-091	IRJ2058-01	1	Nov/03/08	5:13:51 PM
92	081103-1-092	8J25065-MS1	1	Nov/03/08	5:19:32 PM
93	081103-1-093	8J25065-MSD1	1	Nov/03/08	5:25:12 PM
94	081103-1-094	IRJ2058-04	1	Nov/03/08	5:30:51 PM
95	081103-1-095	IRJ2058-07	1	Nov/03/08	5:36:37 PM
96	081103-1-096	IRJ2058-08	1	Nov/03/08	5:42:28 PM
97	081103-1-097	IK80303-CCV8	1	Nov/03/08	5:48:09 PM
98	081103-1-098	IK80303-CCB8	1	Nov/03/08	5:53:45 PM
99	081103-1-099	IRJ2058-07	1	Nov/03/08	5:59:49 PM
100	081103-1-100	IRJ2058-09	1	Nov/03/08	6:05:34 PM
101	081103-1-101	IRJ2058-10	1	Nov/03/08	6:11:16 PM
102	081103-1-102	IRJ2058-11	1	Nov/03/08	6:17:08 PM
103	081103-1-103	IRJ2058-12	1	Nov/03/08	6:22:50 PM
104	081103-1-104	IRJ2058-13	1	Nov/03/08	6:28:31 PM
105	081103-1-105	IRJ2058-14	1	Nov/03/08	6:34:24 PM
106	081103-1-106	IRJ2058-15	1	Nov/03/08	6:40:04 PM
107	081103-1-107	IRJ2058-16	1	Nov/03/08	6:45:46 PM
108	081103-1-108	IRJ2058-17	1	Nov/03/08	6:51:40 PM
109	081103-1-109	IK80303-CCV9	1	Nov/03/08	6:57:26 PM
110	081103-1-110	IK80303-CCB9	1	Nov/03/08	7:03:03 PM
111	081103-1-111	IRJ2058-18	1	Nov/03/08	7:08:39 PM
112	081103-1-112	IRJ2058-19	1	Nov/03/08	7:14:42 PM
113	081103-1-113	IRJ2058-20	1	Nov/03/08	7:20:28 PM
114	081103-1-114	IRJ2058-20	1	Nov/03/08	7:26:16 PM
115	081103-1-115	IRJ2058-03	1	Nov/03/08	7:31:55 PM
116	081103-1-116	IRJ2058-06	1	Nov/03/08	7:37:34 PM
117	081103-1-117	IRJ2058-04	1	Nov/03/08	7:43:25 PM
118	081103-1-118	IRJ2058-07	1	Nov/03/08	7:49:10 PM
119	081103-1-119	IRJ2058-17	1	Nov/03/08	7:54:49 PM
120	081103-1-120	IK80303-CCVA	1	Nov/03/08	8:00:29 PM
121	081103-1-121	IK80303-CCBA	1	Nov/03/08	8:06:06 PM
122	081103-1-122	IRJ2058-10	1	Nov/03/08	8:13:29 PM
123	081103-1-123	IRJ2058-13	1	Nov/03/08	8:19:16 PM
124	081103-1-124	IRJ2058-16	1	Nov/03/08	8:25:01 PM
125	081103-1-125	IRJ2058-18	1	Nov/03/08	8:30:47 PM
126	081103-1-126	IRJ2058-10	1	Nov/03/08	8:36:34 PM
127	081103-1-127	IRJ2058-16	1	Nov/03/08	8:42:13 PM
128	081103-1-128	IRJ2058-18	1	Nov/03/08	8:47:59 PM
129	081103-1-129	IK80303-CCVB	1	Nov/03/08	8:53:45 PM
130	081103-1-130	IK80303-CCBB	1	Nov/03/08	8:59:22 PM
131	081103-1-131	IK80303-BP CHK-	1	Nov/03/08	9:09:12 PM
132	081103-1-132	IK80303-BP CHK-	1	Nov/03/08	9:14:48 PM
133	081103-1-133	IK80303-BPA3	1	Nov/03/08	9:20:23 PM

PREPARATION BENCH SHEET

8J25060

TestAmerica Irvine

Printed: 12/3/2008 8:35:37AM

Matrix: Soil

Prepared using: Metals - EPA 3050B ICP

(No Surrogate)

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike I	ul Spike	ul Surrogate	Initials		Extraction Comments
8J25060-BLK1		QC	10/25/08 15:19	2	50							
8J25060-BS1		QC	10/25/08 15:19	2	50		8090397	1000				
8J25060-MS1		QC	10/25/08 15:19	2	50	IRJ1929-01	8090397	1000				
8J25060-MSD1		QC	10/25/08 15:19	2	50	IRJ1929-01	8090397	1000				
IRJ1929-01	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-01	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-01	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-01	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-01	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-01	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-01	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-01	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-01	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-02	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-02	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-02	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-02	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-02	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-02	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-02	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.

n/a
Spiking Witnessed By Date

TT/VRS/LL 12/3/08
Preparation Reviewed By Date

TT/VRS/LL 12/3/08
Extracts Received By Date

PREPARATION BENCH SHEET

8J25060

TestAmerica Irvine

Printed: 12/3/2008 8:35:37AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	ul Surrogate	Initials		Extraction Comments
IRJ1929-02	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-02	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-03	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-03	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-03	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-03	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-03	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-03	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-03	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-03	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-03	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-04	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-04	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-04	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-04	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-04	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-04	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-04	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-04	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-04	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J25060

TestAmerica Irvine

Printed: 12/3/2008 8:35:37AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	ul Surrogate	Initials		Extraction Comments
IRJ1929-05	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-05	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-05	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-05	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-05	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-05	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-05	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-05	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-05	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-06	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-06	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-06	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-06	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-06	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-06	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-06	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-06	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-06	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-07	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-07	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J25060

TestAmerica Irvine

Printed: 12/3/2008 8:35:37AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	ul Surrogate	Initials		Extraction Comments
IRJ1929-07	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-07	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-07	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-07	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-07	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-07	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-07	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-08	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-08	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-08	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-08	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-08	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-08	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-08	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-08	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-08	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-09	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-09	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-09	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-09	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J25060

TestAmerica Irvine

Printed: 12/3/2008 8:35:37AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	ul Surrogate	Initials		Extraction Comments
IRJ1929-09	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-09	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-09	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-09	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-09	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-10	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-10	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-10	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-10	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-10	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-10	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-10	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-10	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-10	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-11	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-11	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-11	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-11	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-11	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-11	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J25060

TestAmerica Irvine

Printed: 12/3/2008 8:35:37AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	ul Surrogate	Initials		Extraction Comments
IRJ1929-11	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-11	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-11	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-12	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-12	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-12	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-12	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-12	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-12	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-12	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-12	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-12	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-13	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-13	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-13	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-13	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-13	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-13	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-13	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-13	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J25060

TestAmerica Irvine

Printed: 12/3/2008 8:35:37AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	ul Surrogate	Initials		Extraction Comments
IRJ1929-13	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-14	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-14	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-14	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-14	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-14	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-14	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-14	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-14	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-14	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-15	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-15	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-15	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-15	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-15	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-15	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-15	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-15	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-15	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-16	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J25060

TestAmerica Irvine

Printed: 12/3/2008 8:35:37AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	ul Surrogate	Initials		Extraction Comments
IRJ1929-16	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-16	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-16	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-16	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-16	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-16	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-16	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-16	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-17	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-17	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-17	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-17	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-17	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-17	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-17	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-17	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-17	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-18	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-18	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-18	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J25060

TestAmerica Irvine

Printed: 12/3/2008 8:35:37AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	ul Surrogate	Initials		Extraction Comments
IRJ1929-18	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-18	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-18	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-18	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-18	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-18	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-19	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-19	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-19	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-19	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-19	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag
IRJ1929-19	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-19	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-19	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-19	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-20	A	Sodium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-20	A	Aluminum-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-20	A	Boron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-20	A	Calcium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-20	A	Iron-6010B	10/25/08 15:19	2	50							BP Sequence. J flag

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J25060

TestAmerica Irvine

Printed: 12/3/2008 8:35:37AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	ul Surrogate	Initials		Extraction Comments
IRJ1929-20	A	Magnesium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-20	A	Manganese-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-20	A	Potassium-6010B	10/25/08 15:19	2	50							BP Sequence. J flag.
IRJ1929-20	A	Silica-6010B	10/25/08 15:19	2	50							BP Sequence. J flag

Reagents used in Batch

Reagent	Description	Solvent

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

MDL STUDY
METALS BY ICP - EPA 6010B / 200.7

Analyt Method: EPA 6010B / 200.7 — Instruments: **ICP4**
Prep Method: EPA 3005A / 200.2 — Standard Conc: **Na,K**: 10x - **Si**: 5x - **Ag**: 0.5x
Matrix: **Water** (50ml-->50ml) — **Ca,Mg**: 1x
Units: **mg/L**

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					

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: Elan2
Calibration: I8J2802
Control Limt: +/- 10.00%
Sequence: IJ82805

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ82805-ICV1	Antimony	25.0	23.7	95	ug/l	EPA 6020	10/28/08 9:32
IJ82805-CCV1	Antimony	50.0	51.0	102	ug/l	EPA 6020	10/28/08 10:40
IJ82805-CCV2	Antimony	50.0	50.2	100	ug/l	EPA 6020	10/28/08 11:23
IJ82805-CCV3	Antimony	50.0	50.2	100	ug/l	EPA 6020	10/28/08 12:02
IJ82805-CCV4	Antimony	50.0	49.1	98	ug/l	EPA 6020	10/28/08 13:34
IJ82805-CCV5	Antimony	50.0	48.6	97	ug/l	EPA 6020	10/28/08 14:16
IJ82805-CCV6	Antimony	50.0	49.4	99	ug/l	EPA 6020	10/28/08 15:28
IJ82805-CCV7	Antimony	50.0	49.1	98	ug/l	EPA 6020	10/28/08 16:22
IJ82805-CCV8	Antimony	50.0	48.3	97	ug/l	EPA 6020	10/28/08 17:26
IJ82805-CCV9	Antimony	50.0	48.4	97	ug/l	EPA 6020	10/28/08 18:15

* Values outside of QC limits

CRDL STANDARD

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J2802

Sequence: IJ82805

Injection Date: 10/28/08 09:46

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IJ82805-CRL1	Antimony	0.200	0.268	134	ug/l	50 - 150
IJ82805-CRL2	Antimony	2.00	2.18	109	ug/l	50 - 150
IJ82805-CRL3	Antimony	2.00	2.03	102	ug/l	50 - 150
IJ82805-CRL4	Antimony	2.00	2.05	102	ug/l	50 - 150
IJ82805-CRL5	Antimony	2.00	2.07	103	ug/l	50 - 150

* Values outside of QC limits

BLANKS
EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Instrument ID: Elan2
Project: BP Yerington, NV, Soils
Sequence: IJ82805
Calibration: I8J2802

Lab Sample ID	Analyte	MDL (mg/L) 4	Found	MRL ?	Units	C	Method	Analyzed
IJ82805-ICB1	Antimony		0.214	2.0	ug/l		EPA 6020	10/28/08 9:36
IJ82805-CCB1	Antimony		0.386	2.0	ug/l		EPA 6020	10/28/08 10:4
IJ82805-CCB2	Antimony		0.380	2.0	ug/l		EPA 6020	10/28/08 11:2
IJ82805-CCB3	Antimony		0.377	2.0	ug/l		EPA 6020	10/28/08 12:0
IJ82805-CCB4	Antimony		0.349	2.0	ug/l		EPA 6020	10/28/08 13:3
IJ82805-CCB5	Antimony		0.350	2.0	ug/l		EPA 6020	10/28/08 14:2
8J26028-BLK1	Antimony		0.0216	1.0	mg/kg wet		EPA 6020	10/28/08 14:5
IJ82805-CCB6	Antimony		0.340	2.0	ug/l		EPA 6020	10/28/08 15:3
IJ82805-CCB7	Antimony		0.332	2.0	ug/l		EPA 6020	10/28/08 16:2
IJ82805-CCB8	Antimony		0.328	2.0	ug/l		EPA 6020	10/28/08 17:3
IJ82805-CCB9	Antimony		0.326	2.0	ug/l		EPA 6020	10/28/08 18:1

no impact

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J2802

Sequence: IJ82805

Check Nbr: 1

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Antimony	NA	NA		NA	0.0806	NA
Antimony	NA	NA	0.113	NA		NA

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J2802

Sequence: IJ82805

Check Nbr: 2

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Antimony	NA	NA		NA	0.0679	NA
Antimony	NA	NA	0.0908	NA		NA

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J2802

Sequence: IJ82805

Check Nbr: 3

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Antimony	NA	NA		NA	0.0481	NA
Antimony	NA	NA	0.0639	NA		NA

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J2802

Sequence: IJ82805

Check Nbr: 4

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Antimony	NA	NA		NA	0.0597	NA
Antimony	NA	NA	0.0771	NA		NA

* Values outside of QC limits

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020

Laboratory:	TestAmerica Irvine	SDG:	
Client:	Brown and Caldwell - NV	Project:	BP Yerington, NV, Soils
Sequence:	IJ82805	Instrument:	Elan2
		Calibration:	I8J2802

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	IJ82805-CAL1	081028-1-001	10/28/08 09:11
Cal Standard	IJ82805-CAL2	081028-1-002	10/28/08 09:16
Cal Standard	IJ82805-CAL3	081028-1-003	10/28/08 09:21
Cal Standard	IJ82805-CAL4	081028-1-004	10/28/08 09:27
Initial Cal Check	IJ82805-ICV1	081028-1-005	10/28/08 09:32
Initial Cal Blank	IJ82805-ICB1	081028-1-006	10/28/08 09:36
MRL Check	IJ82805-CRL1	081028-1-007	10/28/08 09:46
MRL Check	IJ82805-CRL2	081028-1-008	10/28/08 09:50
Calibration Check	IJ82805-CCV1	081028-1-019	10/28/08 10:40
Calibration Blank	IJ82805-CCB1	081028-1-020	10/28/08 10:44
Calibration Check	IJ82805-CCV2	081028-1-028	10/28/08 11:23
Calibration Blank	IJ82805-CCB2	081028-1-029	10/28/08 11:27
Calibration Check	IJ82805-CCV3	081028-1-038	10/28/08 12:02
Calibration Blank	IJ82805-CCB3	081028-1-039	10/28/08 12:06
Interference Check A	IJ82805-IFA1	081028-1-040	10/28/08 12:14
Interference Check B	IJ82805-IFB1	081028-1-041	10/28/08 12:18
Calibration Check	IJ82805-CCV4	081028-1-052	10/28/08 13:34
Calibration Blank	IJ82805-CCB4	081028-1-053	10/28/08 13:38
Calibration Check	IJ82805-CCV5	081028-1-061	10/28/08 14:16
Calibration Blank	IJ82805-CCB5	081028-1-062	10/28/08 14:20
MRL Check	IJ82805-CRL3	081028-1-063	10/28/08 14:26
Interference Check A	IJ82805-IFA2	081028-1-064	10/28/08 14:30
Interference Check B	IJ82805-IFB2	081028-1-065	10/28/08 14:34
Blank	8J26028-BLK1	081028-1-067	10/28/08 14:53
LCS	8J26028-BS1	081028-1-068	10/28/08 14:56
OU4-UEP-36B-SC	IRJ1929-02	081028-1-073	10/28/08 15:16
OU4-UEP-37B-SC	IRJ1929-04	081028-1-075	10/28/08 15:24
Calibration Check	IJ82805-CCV6	081028-1-076	10/28/08 15:28
Calibration Blank	IJ82805-CCB6	081028-1-077	10/28/08 15:31
OU4-UEP-36A-SC	IRJ1929-01	081028-1-078	10/28/08 15:43
OU4-UEP-36A-SC	8J26028-MS1	081028-1-079	10/28/08 15:47

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Sequence: IJ82805
Instrument: Elan2
Calibration: I8J2802

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
OU4-UEP-36A-SC	8J26028-MSD1	081028-1-080	10/28/08 15:51
OU4-UEP-37A-SC	IRJ1929-03	081028-1-082	10/28/08 15:59
OU4-UEP-40B-SC	IRJ1929-06	081028-1-084	10/28/08 16:06
OU4-LEP-26B-SC	IRJ1929-08	081028-1-086	10/28/08 16:14
Calibration Check	IJ82805-CCV7	081028-1-088	10/28/08 16:22
Calibration Blank	IJ82805-CCB7	081028-1-089	10/28/08 16:26
MRL Check	IJ82805-CRL4	081028-1-090	10/28/08 16:32
Interference Check A	IJ82805-IFA3	081028-1-091	10/28/08 16:36
Interference Check B	IJ82805-IFB3	081028-1-092	10/28/08 16:41
OU4-LEP-19B-SC	IRJ1929-10	081028-1-094	10/28/08 16:51
OU4-UEP-38B-SC	IRJ1929-12	081028-1-096	10/28/08 16:58
OU4-UEP-38B-SC-FD	IRJ1929-14	081028-1-098	10/28/08 17:06
OU4-UEP-39B-SC	IRJ1929-16	081028-1-100	10/28/08 17:14
OU4-UEP-43B-SC	IRJ1929-18	081028-1-102	10/28/08 17:22
Calibration Check	IJ82805-CCV8	081028-1-103	10/28/08 17:26
Calibration Blank	IJ82805-CCB8	081028-1-104	10/28/08 17:30
OU4-UEP-44B-SC	IRJ1929-20	081028-1-106	10/28/08 17:39
OU4-UEP-40A-SC	IRJ1929-05	081028-1-108	10/28/08 17:48
OU4-LEP-26A-SC	IRJ1929-07	081028-1-109	10/28/08 17:52
OU4-LEP-19A-SC	IRJ1929-09	081028-1-110	10/28/08 17:56
OU4-UEP-38A-SC	IRJ1929-11	081028-1-111	10/28/08 18:00
OU4-UEP-38A-SC-FD	IRJ1929-13	081028-1-112	10/28/08 18:04
OU4-UEP-39A-SC	IRJ1929-15	081028-1-113	10/28/08 18:08
OU4-UEP-43A-SC	IRJ1929-17	081028-1-114	10/28/08 18:11
Calibration Check	IJ82805-CCV9	081028-1-115	10/28/08 18:15
Calibration Blank	IJ82805-CCB9	081028-1-116	10/28/08 18:19
MRL Check	IJ82805-CRL5	081028-1-117	10/28/08 18:23
Interference Check A	IJ82805-IFA4	081028-1-118	10/28/08 18:27
Interference Check B	IJ82805-IFB4	081028-1-119	10/28/08 18:31

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: Elan2
Calibration: I8J3104
Control Limt: +/- 10.00%
Sequence: IJ83105

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ83105-ICV1	Arsenic	25.0	25.1	100	ug/l	EPA 6020	10/31/08 17:47
	Barium	25.0	25.6	102	ug/l	EPA 6020	10/31/08 17:47
	Beryllium	25.0	24.4	97	ug/l	EPA 6020	10/31/08 17:47
	Cadmium	25.0	26.2	105	ug/l	EPA 6020	10/31/08 17:47
	Chromium	25.0	26.8	107	ug/l	EPA 6020	10/31/08 17:47
	Cobalt	25.0	26.5	106	ug/l	EPA 6020	10/31/08 17:47
	Copper	25.0	26.0	104	ug/l	EPA 6020	10/31/08 17:47
	Lead	25.0	27.0	108	ug/l	EPA 6020	10/31/08 17:47
	Molybdenum	25.0	25.8	103	ug/l	EPA 6020	10/31/08 17:47
	Nickel	25.0	25.4	102	ug/l	EPA 6020	10/31/08 17:47
	Selenium	25.0	25.0	100	ug/l	EPA 6020	10/31/08 17:47
	Silver	25.0	26.4	106	ug/l	EPA 6020	10/31/08 17:47
	Vanadium	25.0	26.8	107	ug/l	EPA 6020	10/31/08 17:47
	Zinc	25.0	25.6	102	ug/l	EPA 6020	10/31/08 17:47
IJ83105-CCV1	Arsenic	50.0	51.4	103	ug/l	EPA 6020	10/31/08 19:22
	Barium	50.0	51.3	103	ug/l	EPA 6020	10/31/08 19:22
	Beryllium	50.0	50.3	101	ug/l	EPA 6020	10/31/08 19:22
	Cadmium	50.0	51.8	104	ug/l	EPA 6020	10/31/08 19:22
	Chromium	50.0	53.4	107	ug/l	EPA 6020	10/31/08 19:22
	Cobalt	50.0	53.5	107	ug/l	EPA 6020	10/31/08 19:22
	Copper	50.0	53.6	107	ug/l	EPA 6020	10/31/08 19:22
	Lead	50.0	52.6	105	ug/l	EPA 6020	10/31/08 19:22
	Molybdenum	50.0	52.1	104	ug/l	EPA 6020	10/31/08 19:22
	Nickel	50.0	53.1	106	ug/l	EPA 6020	10/31/08 19:22
	Selenium	50.0	50.6	101	ug/l	EPA 6020	10/31/08 19:22
	Silver	50.0	53.8	108	ug/l	EPA 6020	10/31/08 19:22
	Vanadium	50.0	54.0	108	ug/l	EPA 6020	10/31/08 19:22
	Zinc	50.0	50.8	102	ug/l	EPA 6020	10/31/08 19:22
IJ83105-CCV2	Arsenic	50.0	51.7	103	ug/l	EPA 6020	10/31/08 20:10
	Barium	50.0	49.8	100	ug/l	EPA 6020	10/31/08 20:10
	Beryllium	50.0	47.9	96	ug/l	EPA 6020	10/31/08 20:10
	Cadmium	50.0	50.3	101	ug/l	EPA 6020	10/31/08 20:10
	Chromium	50.0	53.3	107	ug/l	EPA 6020	10/31/08 20:10
	Cobalt	50.0	53.4	107	ug/l	EPA 6020	10/31/08 20:10
	Copper	50.0	53.8	108	ug/l	EPA 6020	10/31/08 20:10
	Lead	50.0	52.3	105	ug/l	EPA 6020	10/31/08 20:10
	Molybdenum	50.0	51.4	103	ug/l	EPA 6020	10/31/08 20:10
	Nickel	50.0	52.8	106	ug/l	EPA 6020	10/31/08 20:10
	Selenium	50.0	50.2	100	ug/l	EPA 6020	10/31/08 20:10
	Silver	50.0	52.9	106	ug/l	EPA 6020	10/31/08 20:10
	Vanadium	50.0	53.5	107	ug/l	EPA 6020	10/31/08 20:10
	Zinc	50.0	50.4	101	ug/l	EPA 6020	10/31/08 20:10
IJ83105-CCV3	Arsenic	50.0	51.5	103	ug/l	EPA 6020	10/31/08 21:16
	Barium	50.0	50.7	101	ug/l	EPA 6020	10/31/08 21:16
	Beryllium	50.0	50.3	101	ug/l	EPA 6020	10/31/08 21:16
	Cadmium	50.0	50.9	102	ug/l	EPA 6020	10/31/08 21:16

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: Elan2
Calibration: I8J3104
Control Limt: +/- 10.00%
Sequence: IJ83105

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ83105-CCV3	Chromium	50.0	53.4	107	ug/l	EPA 6020	10/31/08 21:16
	Cobalt	50.0	54.0	108	ug/l	EPA 6020	10/31/08 21:16
	Copper	50.0	54.1	108	ug/l	EPA 6020	10/31/08 21:16
	Lead	50.0	53.2	106	ug/l	EPA 6020	10/31/08 21:16
	Molybdenum	50.0	51.3	103	ug/l	EPA 6020	10/31/08 21:16
	Nickel	50.0	53.0	106	ug/l	EPA 6020	10/31/08 21:16
	Selenium	50.0	50.5	101	ug/l	EPA 6020	10/31/08 21:16
	Silver	50.0	52.8	106	ug/l	EPA 6020	10/31/08 21:16
	Vanadium	50.0	53.7	107	ug/l	EPA 6020	10/31/08 21:16
	Zinc	50.0	50.5	101	ug/l	EPA 6020	10/31/08 21:16
IJ83105-CCV4	Arsenic	50.0	49.9	100	ug/l	EPA 6020	10/31/08 22:05
	Barium	50.0	53.1	106	ug/l	EPA 6020	10/31/08 22:05
	Beryllium	50.0	62.3	125 *	ug/l	EPA 6020	10/31/08 22:05
	Cadmium	50.0	54.2	108	ug/l	EPA 6020	10/31/08 22:05
	Chromium	50.0	53.8	108	ug/l	EPA 6020	10/31/08 22:05
	Cobalt	50.0	56.5	113 *	ug/l	EPA 6020	10/31/08 22:05
	Copper	50.0	53.8	108	ug/l	EPA 6020	10/31/08 22:05
	Lead	50.0	54.7	109	ug/l	EPA 6020	10/31/08 22:05
	Molybdenum	50.0	52.0	104	ug/l	EPA 6020	10/31/08 22:05
	Nickel	50.0	54.9	110	ug/l	EPA 6020	10/31/08 22:05
	Selenium	50.0	52.3	105	ug/l	EPA 6020	10/31/08 22:05
	Silver	50.0	54.2	108	ug/l	EPA 6020	10/31/08 22:05
	Vanadium	50.0	53.7	107	ug/l	EPA 6020	10/31/08 22:05
	Zinc	50.0	52.5	105	ug/l	EPA 6020	10/31/08 22:05
IJ83105-CCV5	Arsenic	50.0	49.9	100	ug/l	EPA 6020	10/31/08 23:06
	Barium	50.0	53.6	107	ug/l	EPA 6020	10/31/08 23:06
	Beryllium	50.0	61.9	124 *	ug/l	EPA 6020	10/31/08 23:06
	Cadmium	50.0	55.1	110	ug/l	EPA 6020	10/31/08 23:06
	Chromium	50.0	54.2	108	ug/l	EPA 6020	10/31/08 23:06
	Cobalt	50.0	57.4	115 *	ug/l	EPA 6020	10/31/08 23:06
	Copper	50.0	53.5	107	ug/l	EPA 6020	10/31/08 23:06
	Lead	50.0	54.5	109	ug/l	EPA 6020	10/31/08 23:06
	Molybdenum	50.0	51.6	103	ug/l	EPA 6020	10/31/08 23:06
	Nickel	50.0	55.8	112 *	ug/l	EPA 6020	10/31/08 23:06
	Selenium	50.0	52.4	105	ug/l	EPA 6020	10/31/08 23:06
	Silver	50.0	54.6	109	ug/l	EPA 6020	10/31/08 23:06
	Vanadium	50.0	54.2	108	ug/l	EPA 6020	10/31/08 23:06
	Zinc	50.0	52.3	105	ug/l	EPA 6020	10/31/08 23:06
IJ83105-CCV6	Arsenic	50.0	49.7	99	ug/l	EPA 6020	10/31/08 23:52
	Barium	50.0	57.3	115 *	ug/l	EPA 6020	10/31/08 23:52
	Beryllium	50.0	66.7	133 *	ug/l	EPA 6020	10/31/08 23:52
	Cadmium	50.0	57.8	116 *	ug/l	EPA 6020	10/31/08 23:52
	Chromium	50.0	54.5	109	ug/l	EPA 6020	10/31/08 23:52
	Cobalt	50.0	57.7	115 *	ug/l	EPA 6020	10/31/08 23:52
	Copper	50.0	52.6	105	ug/l	EPA 6020	10/31/08 23:52
	Lead	50.0	55.1	110	ug/l	EPA 6020	10/31/08 23:52

analytes not reported for bracketed samples, no impact

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: Elan2
Calibration: I8J3104
Control Limt: +/- 10.00%
Sequence: IJ83105

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ83105-CCV6	Molybdenum	50.0	53.1	106	ug/l	EPA 6020	10/31/08 23:52
	Nickel	50.0	55.5	111 *	ug/l	EPA 6020	10/31/08 23:52
	Selenium	50.0	53.8	108	ug/l	EPA 6020	10/31/08 23:52
	Silver	50.0	56.0	112 *	ug/l	EPA 6020	10/31/08 23:52
	Vanadium	50.0	54.7	109	ug/l	EPA 6020	10/31/08 23:52
	Zinc	50.0	52.5	105	ug/l	EPA 6020	10/31/08 23:52

* Values outside of QC limits

same

CRDL STANDARD

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: Elan2
Calibration: I8J3104
Sequence: IJ83105
Injection Date: 10/31/08 18:33

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IJ83105-CRL1	Arsenic	0.200	0.313	157 *	ug/l	50 - 150
	Barium	0.200	0.218	109	ug/l	50 - 150
does not	Beryllium	0.200	0.239	120	ug/l	50 - 150
bracket	Cadmium	0.200	0.212	106	ug/l	50 - 150
project samples	Chromium	0.200	0.277	138	ug/l	50 - 150
no impact	Cobalt	0.200	0.240	120	ug/l	50 - 150
	Copper	0.200	0.200	100	ug/l	50 - 150
	Lead	0.200	0.252	126	ug/l	50 - 150
	Molybdenum	0.200	0.124	62	ug/l	50 - 150
	Nickel	0.200	-0.0224	*	ug/l	50 - 150
	Selenium	0.200	0.178	89	ug/l	50 - 150
	Silver	0.200	0.237	118	ug/l	50 - 150
	Vanadium	0.200	0.142	71	ug/l	50 - 150
	Zinc	0.200	0.0909	45 *	ug/l	50 - 150
IJ83105-CRL2	Arsenic	2.00	2.25	113	ug/l	50 - 150
	Barium	2.00	2.12	106	ug/l	50 - 150
	Beryllium	2.00	2.21	110	ug/l	50 - 150
	Cadmium	2.00	2.15	107	ug/l	50 - 150
	Chromium	2.00	2.23	112	ug/l	50 - 150
	Cobalt	2.00	2.28	114	ug/l	50 - 150
	Copper	2.00	2.20	110	ug/l	50 - 150
	Lead	2.00	2.42	121	ug/l	50 - 150
	Molybdenum	2.00	2.01	101	ug/l	50 - 150
	Nickel	2.00	1.93	96	ug/l	50 - 150
	Selenium	2.00	2.04	102	ug/l	50 - 150
	Silver	2.00	2.18	109	ug/l	50 - 150
	Vanadium	2.00	2.20	110	ug/l	50 - 150
	Zinc	2.00	4.93	247 *	ug/l	50 - 150

spike < MDL, no impact
(52)

CRDL STANDARD

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: Elan2
Calibration: I8J3104
Sequence: IJ83105
Injection Date: 10/31/08 20:19

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IJ83105-CRL3	Arsenic	2.00	2.30	115	ug/l	50 - 150
	Barium	2.00	2.01	101	ug/l	50 - 150
	Beryllium	2.00	1.93	96	ug/l	50 - 150
	Cadmium	2.00	2.04	102	ug/l	50 - 150
	Chromium	2.00	2.03	101	ug/l	50 - 150
	Cobalt	2.00	2.22	111	ug/l	50 - 150
	Copper	2.00	2.19	109	ug/l	50 - 150
	Lead	2.00	2.28	114	ug/l	50 - 150
	Molybdenum	2.00	1.86	93	ug/l	50 - 150
	Nickel	2.00	1.92	96	ug/l	50 - 150
	Selenium	2.00	1.94	97	ug/l	50 - 150
	Silver	2.00	2.14	107	ug/l	50 - 150
	Vanadium	2.00	2.20	110	ug/l	50 - 150
	Zinc	2.00	2.26	113	ug/l	50 - 150
IJ83105-CRL4	Arsenic	2.00	1.15	57	ug/l	50 - 150
	Barium	2.00	2.14	107	ug/l	50 - 150
	Beryllium	2.00	2.53	127	ug/l	50 - 150
	Cadmium	2.00	2.22	111	ug/l	50 - 150
	Chromium	2.00	1.88	94	ug/l	50 - 150
	Cobalt	2.00	2.37	118	ug/l	50 - 150
	Copper	2.00	2.14	107	ug/l	50 - 150
	Lead	2.00	2.37	118	ug/l	50 - 150
	Molybdenum	2.00	1.91	96	ug/l	50 - 150
	Nickel	2.00	1.99	100	ug/l	50 - 150
	Selenium	2.00	2.02	101	ug/l	50 - 150
	Silver	2.00	2.23	112	ug/l	50 - 150
	Vanadium	2.00	1.82	91	ug/l	50 - 150
	Zinc	2.00	1.89	95	ug/l	50 - 150

CRDL STANDARD

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J3104

Sequence: IJ83105

Injection Date: 11/01/08 00:00

no impact

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IJ83105-CRL5	Arsenic	2.00	0.989	49 *	ug/l	50 - 150
	Barium	2.00	2.25	112	ug/l	50 - 150
	Beryllium	2.00	2.62	131	ug/l	50 - 150
	Cadmium	2.00	2.35	117	ug/l	50 - 150
	Chromium	2.00	1.67	84	ug/l	50 - 150
	Cobalt	2.00	2.40	120	ug/l	50 - 150
	Copper only	2.00	2.16	108	ug/l	50 - 150
	Lead	2.00	2.37	118	ug/l	50 - 150
	Molybdenum	2.00	1.95	98	ug/l	50 - 150
	Nickel	2.00	2.01	100	ug/l	50 - 150
	Selenium	2.00	2.10	105	ug/l	50 - 150
	Silver	2.00	2.31	116	ug/l	50 - 150
	Vanadium	2.00	1.83	92	ug/l	50 - 150
	Zinc	2.00	1.83	91	ug/l	50 - 150

* Values outside of QC limits

BLANKS
EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Instrument ID: Elan2
Project: BP Yerington, NV, Soils
Sequence: IJ83105
Calibration: I8J3104

Lab Sample ID	Analyte	MDL (ug/L)	Found	MRL ?	Units	C	Method	Analyzed
IJ83105-ICB1	Arsenic	14	0.0644	1.0	ug/l		EPA 6020	10/31/08 17:5
	Barium	8	-0.00350	1.0	ug/l		EPA 6020	10/31/08 17:5
	Beryllium	4	0.000620	0.50	ug/l		EPA 6020	10/31/08 17:5
	Cadmium	2.4	0.00366	1.0	ug/l		EPA 6020	10/31/08 17:5
	Chromium	14	-0.144	2.0	ug/l		EPA 6020	10/31/08 17:5
	Cobalt	3.2	0.000130	1.0	ug/l		EPA 6020	10/31/08 17:5
	Copper	15.2	0.00605	2.0	ug/l		EPA 6020	10/31/08 17:5
	Lead	6	0.00352	1.0	ug/l		EPA 6020	10/31/08 17:5
	Molybdenum	4	-0.00460	2.0	ug/l		EPA 6020	10/31/08 17:5
	Nickel	18	-0.0117	2.0	ug/l		EPA 6020	10/31/08 17:5
	Selenium	6	-0.00387	2.0	ug/l		EPA 6020	10/31/08 17:5
	Silver	6	0.00110	1.0	ug/l		EPA 6020	10/31/08 17:5
	Vanadium	14	-0.0738	2.0	ug/l		EPA 6020	10/31/08 17:5
	Zinc	52	-0.00658	20	ug/l		EPA 6020	10/31/08 17:5
8J25063-BLK1	Arsenic		-0.0349	0.50	mg/kg wet		EPA 6020	10/31/08 18:4
	Barium		0.0909	0.50	mg/kg wet		EPA 6020	10/31/08 18:4
	Beryllium		0.00464	0.30	mg/kg wet		EPA 6020	10/31/08 18:4
	Cadmium		-0.00232	0.50	mg/kg wet		EPA 6020	10/31/08 18:4
	Chromium		0.556	1.0	mg/kg wet		EPA 6020	10/31/08 18:4
	Cobalt		0.00894	0.50	mg/kg wet		EPA 6020	10/31/08 18:4
	Copper		0.319	1.0	mg/kg wet		EPA 6020	10/31/08 18:4
	Lead		0.0157	0.50	mg/kg wet		EPA 6020	10/31/08 18:4
	Molybdenum		-0.0607	1.0	mg/kg wet		EPA 6020	10/31/08 18:4
	Nickel		0.0299	1.0	mg/kg wet		EPA 6020	10/31/08 18:4
	Selenium		-0.000300	1.0	mg/kg wet		EPA 6020	10/31/08 18:4
	Silver		-0.00170	0.50	mg/kg wet		EPA 6020	10/31/08 18:4
	Vanadium		-0.298	1.0	mg/kg wet		EPA 6020	10/31/08 18:4
	Zinc		0.410	10	mg/kg wet		EPA 6020	10/31/08 18:4
IJ83105-CCB1	Arsenic		0.215	1.0	ug/l		EPA 6020	10/31/08 19:2
	Barium		-0.0238	1.0	ug/l		EPA 6020	10/31/08 19:2
	Beryllium		-0.00593	0.50	ug/l		EPA 6020	10/31/08 19:2
	Cadmium		-0.0252	1.0	ug/l		EPA 6020	10/31/08 19:2
	Chromium		-0.212	2.0	ug/l		EPA 6020	10/31/08 19:2
	Cobalt		-0.00934	1.0	ug/l		EPA 6020	10/31/08 19:2
	Copper		0.00796	2.0	ug/l		EPA 6020	10/31/08 19:2
	Lead		-0.00796	1.0	ug/l		EPA 6020	10/31/08 19:2
	Molybdenum		-0.0192	2.0	ug/l		EPA 6020	10/31/08 19:2
	Nickel		-0.276	2.0	ug/l		EPA 6020	10/31/08 19:2
	Selenium		0.0353	2.0	ug/l		EPA 6020	10/31/08 19:2
	Silver		-0.00149	1.0	ug/l		EPA 6020	10/31/08 19:2
	Vanadium		-0.148	2.0	ug/l		EPA 6020	10/31/08 19:2
	Zinc		-0.394	20	ug/l		EPA 6020	10/31/08 19:2
IJ83105-CCB2	Arsenic		0.153	1.0	ug/l		EPA 6020	10/31/08 20:1
	Barium		-0.0198	1.0	ug/l		EPA 6020	10/31/08 20:1
	Beryllium		-0.00756	0.50	ug/l		EPA 6020	10/31/08 20:1

BLANKS
EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Instrument ID: Elan2
Project: BP Yerington, NV, Soils
Sequence: IJ83105
Calibration: I8J3104

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
IJ83105-CCB2	Cadmium	-0.0230	1.0	ug/l		EPA 6020	10/31/08 20:1
	Chromium	-0.200	2.0	ug/l		EPA 6020	10/31/08 20:1
	Cobalt	-0.00906	1.0	ug/l		EPA 6020	10/31/08 20:1
	Copper	0.0223	2.0	ug/l		EPA 6020	10/31/08 20:1
	Lead	-0.00619	1.0	ug/l		EPA 6020	10/31/08 20:1
	Molybdenum	-0.0407	2.0	ug/l		EPA 6020	10/31/08 20:1
	Nickel	-0.279	2.0	ug/l		EPA 6020	10/31/08 20:1
	Selenium	-0.0154	2.0	ug/l		EPA 6020	10/31/08 20:1
	Silver	-0.000130	1.0	ug/l		EPA 6020	10/31/08 20:1
	Vanadium	-0.163	2.0	ug/l		EPA 6020	10/31/08 20:1
	Zinc	-0.391	20	ug/l		EPA 6020	10/31/08 20:1
IJ83105-CCB3	Arsenic	0.155	1.0	ug/l		EPA 6020	10/31/08 21:2
	Barium	-0.0158	1.0	ug/l		EPA 6020	10/31/08 21:2
	Beryllium	-0.00211	0.50	ug/l		EPA 6020	10/31/08 21:2
	Cadmium	-0.0216	1.0	ug/l		EPA 6020	10/31/08 21:2
	Chromium	-0.165	2.0	ug/l		EPA 6020	10/31/08 21:2
	Cobalt	-0.00658	1.0	ug/l		EPA 6020	10/31/08 21:2
	Copper	0.0245	2.0	ug/l		EPA 6020	10/31/08 21:2
	Lead	-0.00427	1.0	ug/l		EPA 6020	10/31/08 21:2
	Molybdenum	-0.0272	2.0	ug/l		EPA 6020	10/31/08 21:2
	Nickel	-0.274	2.0	ug/l		EPA 6020	10/31/08 21:2
	Selenium	-0.0139	2.0	ug/l		EPA 6020	10/31/08 21:2
	Silver	0.00126	1.0	ug/l		EPA 6020	10/31/08 21:2
	Vanadium	-0.209	2.0	ug/l		EPA 6020	10/31/08 21:2
	Zinc	-0.346	20	ug/l		EPA 6020	10/31/08 21:2
IJ83105-CCB4	Arsenic	-0.879	1.0	ug/l		EPA 6020	10/31/08 22:0
	Barium	-0.0146	1.0	ug/l		EPA 6020	10/31/08 22:0
	Beryllium	-0.00585	0.50	ug/l		EPA 6020	10/31/08 22:0
	Cadmium	-0.0242	1.0	ug/l		EPA 6020	10/31/08 22:0
	Chromium	-0.317	2.0	ug/l		EPA 6020	10/31/08 22:0
	Cobalt	-0.00744	1.0	ug/l		EPA 6020	10/31/08 22:0
	Copper	0.0184	2.0	ug/l		EPA 6020	10/31/08 22:0
	Lead	-0.00592	1.0	ug/l		EPA 6020	10/31/08 22:0
	Molybdenum	-0.0157	2.0	ug/l		EPA 6020	10/31/08 22:0
	Nickel	-0.266	2.0	ug/l		EPA 6020	10/31/08 22:0
	Selenium	-0.0225	2.0	ug/l		EPA 6020	10/31/08 22:0
	Silver	-0.00230	1.0	ug/l		EPA 6020	10/31/08 22:0
	Vanadium	-0.168	2.0	ug/l		EPA 6020	10/31/08 22:0
	Zinc	-0.302	20	ug/l		EPA 6020	10/31/08 22:0
IJ83105-CCB5	Arsenic	-0.776	1.0	ug/l		EPA 6020	10/31/08 23:1
	Barium	-0.00825	1.0	ug/l		EPA 6020	10/31/08 23:1
	Beryllium	-0.00234	0.50	ug/l		EPA 6020	10/31/08 23:1
	Cadmium	-0.0192	1.0	ug/l		EPA 6020	10/31/08 23:1
	Chromium	-0.467	2.0	ug/l		EPA 6020	10/31/08 23:1
	Cobalt	-0.00604	1.0	ug/l		EPA 6020	10/31/08 23:1

BLANKS
EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Instrument ID: Elan2
Project: BP Yerington, NV, Soils
Sequence: IJ83105
Calibration: I8J3104

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
IJ83105-CCB5	Copper	0.0195	2.0	ug/l		EPA 6020	10/31/08 23:1
	Lead	-0.00284	1.0	ug/l		EPA 6020	10/31/08 23:1
	Molybdenum	-0.0288	2.0	ug/l		EPA 6020	10/31/08 23:1
	Nickel	-0.273	2.0	ug/l		EPA 6020	10/31/08 23:1
	Selenium	0.0208	2.0	ug/l		EPA 6020	10/31/08 23:1
	Silver	-0.0000400	1.0	ug/l		EPA 6020	10/31/08 23:1
	Vanadium	-0.248	2.0	ug/l		EPA 6020	10/31/08 23:1
	Zinc	-0.328	20	ug/l		EPA 6020	10/31/08 23:1
IJ83105-CCB6	Arsenic	-1.14	1.0	ug/l	*	EPA 6020	10/31/08 23:5
	Barium	-0.00753	1.0	ug/l		EPA 6020	10/31/08 23:5
	Beryllium	-0.00182	0.50	ug/l		EPA 6020	10/31/08 23:5
	Cadmium	-0.0190	1.0	ug/l		EPA 6020	10/31/08 23:5
	Chromium	-0.543	2.0	ug/l		EPA 6020	10/31/08 23:5
	Cobalt	-0.00287	1.0	ug/l		EPA 6020	10/31/08 23:5
	Copper	0.0707	2.0	ug/l		EPA 6020	10/31/08 23:5
	Lead	-0.00253	1.0	ug/l		EPA 6020	10/31/08 23:5
	Molybdenum	-0.0249	2.0	ug/l		EPA 6020	10/31/08 23:5
	Nickel	-0.244	2.0	ug/l		EPA 6020	10/31/08 23:5
	Selenium	-0.0415	2.0	ug/l		EPA 6020	10/31/08 23:5
	Silver	0.00381	1.0	ug/l		EPA 6020	10/31/08 23:5
	Vanadium	-0.406	2.0	ug/l		EPA 6020	10/31/08 23:5
	Zinc	-0.306	20	ug/l		EPA 6020	10/31/08 23:5
8J25063-BLK1	Thallium	0.00500	0.50	mg/kg wet		EPA 6020	11/1/08 11:35

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J3104

Sequence: IJ83105

Check Nbr: 1

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Arsenic	NA	NA	-0.222	NA		NA
Arsenic	NA	20.0		NA	16.7	84
Barium	NA	NA		NA	0.593	NA
Barium	NA	NA	0.605	NA		NA
Beryllium	NA	NA		NA	-0.00254	NA
Beryllium	NA	NA	0.0122	NA		NA
Cadmium	NA	NA	3.35	NA		NA
Cadmium	NA	20.0		NA	18.4	92
Chromium	NA	NA	2.80	NA		NA
Chromium	NA	20.0		NA	20.0	100
Cobalt	NA	NA	0.214	NA		NA
Cobalt	NA	20.0		NA	16.6	83
Copper	NA	NA	2.45	NA		NA
Copper	NA	20.0		NA	17.8	89
Lead	NA	NA		NA	0.567	NA
Lead	NA	NA	0.571	NA		NA
Molybdenum	NA	2000		NA	1790	90
Molybdenum mg/L	2000	NA	1780	89		NA
Nickel	NA	NA	-0.0796	NA		NA
Nickel	NA	20.0		NA	14.5	73
Selenium	NA	NA		NA	0.425	NA
Selenium	NA	NA	0.348	NA		NA
Silver	NA	NA	0.0617	NA		NA
Silver	NA	20.0		NA	15.4	77
Vanadium	NA	NA		NA	0.691	NA
Vanadium	NA	NA	0.706	NA		NA
Zinc	NA	NA	6.16	NA		NA
Zinc	NA	20.0		NA	20.0	100

Mo low in all samples, no impact

(< 25 mg/kg)

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J3104

Sequence: IJ83105

Check Nbr: 2

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Arsenic	NA	NA	-0.461	NA		NA
Arsenic	NA	20.0		NA	15.1	75
Barium	NA	NA		NA	0.516	NA
Barium	NA	NA	0.496	NA		NA
Beryllium	NA	NA		NA	0.00122	NA
Beryllium	NA	NA	-0.00395	NA		NA
Cadmium	NA	NA	2.80	NA		NA
Cadmium	NA	20.0		NA	17.5	87
Chromium	NA	NA	1.10	NA		NA
Chromium	NA	20.0		NA	17.9	90
Cobalt	NA	NA	0.197	NA		NA
Cobalt	NA	20.0		NA	16.4	82
Copper	NA	NA	2.13	NA		NA
Copper	NA	20.0		NA	17.2	86
Lead	NA	NA		NA	0.519	NA
Lead	NA	NA	0.514	NA		NA
Molybdenum	NA	2000		NA	1640	82
Molybdenum	2000	NA	1650	82		NA
Nickel	NA	NA	-0.0976	NA		NA
Nickel	NA	20.0		NA	14.5	73
Selenium	NA	NA		NA	0.352	NA
Selenium	NA	NA	0.285	NA		NA
Silver	NA	NA	0.0735	NA		NA
Silver	NA	20.0		NA	14.7	73
Vanadium	NA	NA		NA	0.0421	NA
Vanadium	NA	NA	0.288	NA		NA
Zinc	NA	NA	5.13	NA		NA
Zinc	NA	20.0		NA	19.0	95

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J3104

Sequence: IJ83105

Check Nbr: 3

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Arsenic	NA	NA	-1.42	NA		NA
Arsenic	NA	20.0		NA	14.4	72
Barium	NA	NA		NA	0.569	NA
Barium	NA	NA	0.529	NA		NA
Beryllium	NA	NA		NA	0.00385	NA
Beryllium	NA	NA	-0.00388	NA		NA
Cadmium	NA	NA	3.20	NA		NA
Cadmium	NA	20.0		NA	19.4	97
Chromium	NA	NA	1.31	NA		NA
Chromium	NA	20.0		NA	18.5	92
Cobalt	NA	NA	0.218	NA		NA
Cobalt	NA	20.0		NA	17.0	85
Copper	NA	NA	2.31	NA		NA
Copper	NA	20.0		NA	17.5	87
Lead	NA	NA		NA	0.553	NA
Lead	NA	NA	0.537	NA		NA
Molybdenum	NA	2000		NA	1740	87
Molybdenum	2000	NA	1650	83		NA
Nickel	NA	NA	0.192	NA		NA
Nickel	NA	20.0		NA	15.1	75
Selenium	NA	NA		NA	0.250	NA
Selenium	NA	NA	0.203	NA		NA
Silver	NA	NA	0.0703	NA		NA
Silver	NA	20.0		NA	15.5	77
Vanadium	NA	NA		NA	0.0363	NA
Vanadium	NA	NA	0.174	NA		NA
Zinc	NA	NA	5.45	NA		NA
Zinc	NA	20.0		NA	19.7	99

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: Elan2

Calibration: I8J3104

Sequence: IJ83105

Check Nbr: 4

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Arsenic	NA	NA	-1.58	NA		NA
Arsenic	NA	20.0		NA	14.2	71
Barium	NA	NA		NA	0.596	NA
Barium	NA	NA	0.576	NA		NA
Beryllium	NA	NA		NA	0.00456	NA
Beryllium	NA	NA	-0.00207	NA		NA
Cadmium	NA	NA	3.17	NA		NA
Cadmium	NA	20.0		NA	20.2	101
Chromium	NA	NA	1.34	NA		NA
Chromium	NA	20.0		NA	18.4	92
Cobalt	NA	NA	0.215	NA		NA
Cobalt	NA	20.0		NA	17.1	86
Copper	NA	NA	2.29	NA		NA
Copper	NA	20.0		NA	17.3	87
Lead	NA	NA		NA	0.537	NA
Lead	NA	NA	0.537	NA		NA
Molybdenum	NA	2000		NA	1770	88
Molybdenum	2000	NA	1710	86		NA
Nickel	NA	NA	0.231	NA		NA
Nickel	NA	20.0		NA	15.3	76
Selenium	NA	NA		NA	0.250	NA
Selenium	NA	NA	0.244	NA		NA
Silver	NA	NA	0.0686	NA		NA
Silver	NA	20.0		NA	15.5	77
Vanadium	NA	NA		NA	0.0775	NA
Vanadium	NA	NA	0.205	NA		NA
Zinc	NA	NA	5.37	NA		NA
Zinc	NA	20.0		NA	19.6	98

* Values outside of QC limits

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Sequence: IJ83105
Instrument: Elan2
Calibration: I8J3104

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	IJ83105-CAL1	081031-2-001	10/31/08 17:27
Cal Standard	IJ83105-CAL2	081031-2-002	10/31/08 17:32
Cal Standard	IJ83105-CAL3	081031-2-003	10/31/08 17:37
Cal Standard	IJ83105-CAL4	081031-2-004	10/31/08 17:42
Initial Cal Check	IJ83105-ICV1	081031-2-005	10/31/08 17:47
Initial Cal Blank	IJ83105-ICB1	081031-2-006	10/31/08 17:51
Interference Check A	IJ83105-IFA1	081031-2-007	10/31/08 18:15
Interference Check B	IJ83105-IFB1	081031-2-008	10/31/08 18:19
MRL Check	IJ83105-CRL1	081031-2-010	10/31/08 18:33
MRL Check	IJ83105-CRL2	081031-2-011	10/31/08 18:37
Blank	8J25063-BLK1	081031-2-012	10/31/08 18:43
LCS	8J25063-BS1	081031-2-013	10/31/08 18:47
OU4-UEP-36A-SC	IRJ1929-01	081031-2-014	10/31/08 18:51
OU4-UEP-36A-SC	8J25063-MS1	081031-2-015	10/31/08 18:55
OU4-UEP-36A-SC	8J25063-MSD1	081031-2-016	10/31/08 18:59
OU4-UEP-36B-SC	IRJ1929-02	081031-2-018	10/31/08 19:06
OU4-UEP-37A-SC	IRJ1929-03	081031-2-020	10/31/08 19:14
OU4-UEP-37B-SC	IRJ1929-04	081031-2-021	10/31/08 19:18
Calibration Check	IJ83105-CCV1	081031-2-022	10/31/08 19:22
Calibration Blank	IJ83105-CCB1	081031-2-023	10/31/08 19:26
OU4-UEP-40A-SC	IRJ1929-05	081031-2-024	10/31/08 19:31
OU4-UEP-40B-SC	IRJ1929-06	081031-2-025	10/31/08 19:35
OU4-LEP-26A-SC	IRJ1929-07	081031-2-026	10/31/08 19:39
OU4-LEP-26B-SC	IRJ1929-08	081031-2-027	10/31/08 19:43
OU4-LEP-19A-SC	IRJ1929-09	081031-2-028	10/31/08 19:47
OU4-LEP-19B-SC	IRJ1929-10	081031-2-029	10/31/08 19:50
OU4-UEP-38A-SC	IRJ1929-11	081031-2-030	10/31/08 19:54
OU4-UEP-38B-SC	IRJ1929-12	081031-2-031	10/31/08 19:58
OU4-UEP-38A-SC-FD	IRJ1929-13	081031-2-032	10/31/08 20:02
Calibration Check	IJ83105-CCV2	081031-2-034	10/31/08 20:10
Calibration Blank	IJ83105-CCB2	081031-2-035	10/31/08 20:14

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Sequence: IJ83105
Instrument: Elan2
Calibration: I8J3104

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MRL Check	IJ83105-CRL3	081031-2-036	10/31/08 20:19
Interference Check A	IJ83105-IFA2	081031-2-037	10/31/08 20:23
Interference Check B	IJ83105-IFB2	081031-2-038	10/31/08 20:27
OU4-UEP-39A-SC	IRJ1929-15	081031-2-042	10/31/08 20:49
OU4-UEP-39B-SC	IRJ1929-16	081031-2-043	10/31/08 20:53
OU4-UEP-43A-SC	IRJ1929-17	081031-2-044	10/31/08 20:57
OU4-UEP-43B-SC	IRJ1929-18	081031-2-045	10/31/08 21:01
OU4-UEP-44A-SC	IRJ1929-19	081031-2-046	10/31/08 21:04
OU4-UEP-44B-SC	IRJ1929-20	081031-2-047	10/31/08 21:08
OU4-UEP-38B-SC-FD	IRJ1929-14	081031-2-048	10/31/08 21:12
Calibration Check	IJ83105-CCV3	081031-2-049	10/31/08 21:16
Calibration Blank	IJ83105-CCB3	081031-2-050	10/31/08 21:20
Calibration Check	IJ83105-CCV4	081031-2-061	10/31/08 22:05
Calibration Blank	IJ83105-CCB4	081031-2-062	10/31/08 22:08
MRL Check	IJ83105-CRL4	081031-2-063	10/31/08 22:12
Interference Check A	IJ83105-IFA3	081031-2-064	10/31/08 22:17
Interference Check B	IJ83105-IFB3	081031-2-065	10/31/08 22:21
OU4-LEP-19B-SC 10x Cu only	IRJ1929-10	081031-2-067	10/31/08 22:31
Calibration Check	IJ83105-CCV5	081031-2-076	10/31/08 23:06
Calibration Blank	IJ83105-CCB5	081031-2-077	10/31/08 23:10
Calibration Check	IJ83105-CCV6	081031-2-088	10/31/08 23:52
Calibration Blank	IJ83105-CCB6	081031-2-089	10/31/08 23:56
MRL Check	IJ83105-CRL5	081031-2-090	11/01/08 00:00
Interference Check A	IJ83105-IFA4	081031-2-091	11/01/08 00:04
Interference Check B	IJ83105-IFB4	081031-2-092	11/01/08 00:09
Blank	8J25063-BLK1	081101-1-016	11/01/08 11:35
LCS	8J25063-BS1	081101-1-017	11/01/08 11:40
OU4-UEP-36A-SC	8J25063-MS1	081101-1-020	11/01/08 11:51
OU4-UEP-36A-SC	8J25063-MSD1	081101-1-021	11/01/08 11:55

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: ELAN
Calibration: I8K0102
Control Limt: +/- 10.00%
Sequence: IK80102

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IK80102-ICV2	Thallium	25.0	27.5	110	ug/l	EPA 6020	11/1/08 10:46
IK80102-CCV1	Thallium	50.0	52.2	104	ug/l	EPA 6020	11/1/08 12:03
IK80102-CCV2	Thallium	50.0	51.9	104	ug/l	EPA 6020	11/1/08 12:51
IK80102-CCV3	Thallium	50.0	53.0	106	ug/l	EPA 6020	11/1/08 13:45

* Values outside of QC limits

CRDL STANDARD

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: ELAN

Calibration: I8K0102

Sequence: IK80102

Injection Date: 11/01/08 11:15

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IK80102-CRL1	Thallium	0.200	0.222	111	ug/l	50 - 150
IK80102-CRL2	Thallium	2.00	2.18	109	ug/l	50 - 150
IK80102-CRL3	Thallium	2.00	2.04	102	ug/l	50 - 150

* Values outside of QC limits

BLANKS
EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Instrument ID: ELAN

Project: BP Yerington, NV, Soils

Sequence: IK80102

Calibration: I8K0102

Lab Sample ID	Analyte MDL (mg/L)	Found	MRL ?	Units	C	Method	Analyzed
IK80102-ICB1	Thallium 4	0.0200	1.0	ug/l		EPA 6020	11/1/08 10:50
IK80102-CCB1	Thallium	0.0530	1.0	ug/l		EPA 6020	11/1/08 12:07
IK80102-CCB2	Thallium	0.0260	1.0	ug/l		EPA 6020	11/1/08 12:55
IK80102-CCB3	Thallium	0.0180	1.0	ug/l		EPA 6020	11/1/08 13:49

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: ELAN

Calibration: I8K0102

Sequence: IK80102

Check Nbr: 1

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Thallium	NA	NA		NA	0.0150	NA
Thallium	NA	NA	0.0150	NA		NA

Form 4

ICP/MS INTERFERENCE CHECK SAMPLE

EPA 6020

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: ELAN

Calibration: I8K0102

Sequence: IK80102

Check Nbr: 2

	True		Found			
Analyte	**Sol A**	**Sol B**	**Sol A**	**%R**	**Sol B**	**%R**
Thallium	NA	NA		NA	0.0160	NA
Thallium	NA	NA	0.0310	NA		NA

* Values outside of QC limits

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Sequence: IK80102
Instrument: ELAN
Calibration: I8K0102

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	IK80102-CAL1	081101-1-001	11/01/08 10:12
Cal Standard	IK80102-CAL2	081101-1-002	11/01/08 10:17
Cal Standard	IK80102-CAL3	081101-1-003	11/01/08 10:23
Cal Standard	IK80102-CAL4	081101-1-004	11/01/08 10:30
Initial Cal Check	IK80102-ICV2	081101-1-006	11/01/08 10:46
Initial Cal Blank	IK80102-ICB1	081101-1-007	11/01/08 10:50
Interference Check A	IK80102-IFA1	081101-1-008	11/01/08 11:01
Interference Check B	IK80102-IFB1	081101-1-009	11/01/08 11:06
MRL Check	IK80102-CRL1	081101-1-011	11/01/08 11:15
MRL Check	IK80102-CRL2	081101-1-012	11/01/08 11:19
OU4-UEP-36A-SC	IRJ1929-01	081101-1-019	11/01/08 11:48
Calibration Check	IK80102-CCV1	081101-1-023	11/01/08 12:03
Calibration Blank	IK80102-CCB1	081101-1-024	11/01/08 12:07
OU4-UEP-36B-SC	IRJ1929-02	081101-1-025	11/01/08 12:12
OU4-UEP-37A-SC	IRJ1929-03	081101-1-027	11/01/08 12:20
OU4-UEP-37B-SC	IRJ1929-04	081101-1-028	11/01/08 12:24
OU4-UEP-40A-SC	IRJ1929-05	081101-1-029	11/01/08 12:28
OU4-UEP-40B-SC	IRJ1929-06	081101-1-030	11/01/08 12:32
OU4-LEP-26A-SC	IRJ1929-07	081101-1-031	11/01/08 12:35
OU4-LEP-26B-SC	IRJ1929-08	081101-1-032	11/01/08 12:39
OU4-LEP-19A-SC	IRJ1929-09	081101-1-033	11/01/08 12:43
OU4-LEP-19B-SC	IRJ1929-10	081101-1-034	11/01/08 12:47
Calibration Check	IK80102-CCV2	081101-1-035	11/01/08 12:51
Calibration Blank	IK80102-CCB2	081101-1-036	11/01/08 12:55
OU4-UEP-38A-SC	IRJ1929-11	081101-1-037	11/01/08 13:06
OU4-UEP-38B-SC	IRJ1929-12	081101-1-038	11/01/08 13:10
OU4-UEP-38A-SC-FD	IRJ1929-13	081101-1-039	11/01/08 13:14
OU4-UEP-38B-SC-FD	IRJ1929-14	081101-1-040	11/01/08 13:18
OU4-UEP-39A-SC	IRJ1929-15	081101-1-041	11/01/08 13:22
OU4-UEP-39B-SC	IRJ1929-16	081101-1-042	11/01/08 13:25
OU4-UEP-43A-SC	IRJ1929-17	081101-1-043	11/01/08 13:29

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020

Laboratory:	TestAmerica Irvine	SDG:	
Client:	Brown and Caldwell - NV	Project:	BP Yerington, NV, Soils
Sequence:	IK80102	Instrument:	ELAN
		Calibration:	I8K0102

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
OU4-UEP-43B-SC	IRJ1929-18	081101-1-044	11/01/08 13:33
OU4-UEP-44A-SC	IRJ1929-19	081101-1-045	11/01/08 13:37
OU4-UEP-44B-SC	IRJ1929-20	081101-1-046	11/01/08 13:41
Calibration Check	IK80102-CCV3	081101-1-047	11/01/08 13:45
Calibration Blank	IK80102-CCB3	081101-1-048	11/01/08 13:49
MRL Check	IK80102-CRL3	081101-1-049	11/01/08 13:56
Interference Check A	IK80102-IFA2	081101-1-050	11/01/08 14:00
Interference Check B	IK80102-IFB2	081101-1-051	11/01/08 14:05

PREPARATION BENCH SHEET

8J25063

TestAmerica Irvine

Printed: 10/31/2008 6:46:43PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
8J25063-BLK1		QC	10/25/08 15:27	2	50										
8J25063-BS1		QC	10/25/08 15:27	2	50		8090397	1000							
8J25063-MS1		QC	10/25/08 15:27	2	50	IRJ1929-01	8090397	1000							
8J25063-MSD1		QC	10/25/08 15:27	2	50	IRJ1929-01	8090397	1000							
IRJ1929-01	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-01	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-01	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-01	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-01	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-01	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-01	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-01	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-01	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-01	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-01	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-01	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-01	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-01	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-01	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-02	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag

Spiking Witnessed By Date

FR 10/31/08
Preparation Reviewed By Date

FR 10/31/08
Extracts Received By Date

556

PREPARATION BENCH SHEET

8J25063

TestAmerica Irvine

Printed: 10/31/2008 6:46:43PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1929-02	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-02	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-02	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-02	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-02	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-02	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-02	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-02	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-02	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-02	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-02	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-02	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-02	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-02	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-03	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-03	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-03	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-03	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-03	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-03	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J25063

TestAmerica Irvine

Printed: 10/31/2008 6:46:43PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1929-03	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-03	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-03	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-03	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-03	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-03	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-03	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-03	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-03	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-04	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-04	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-04	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-04	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-04	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-04	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-04	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-04	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-04	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-04	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-04	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J25063

TestAmerica Irvine

Printed: 10/31/2008 6:46:43PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1929-04	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-04	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-04	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-04	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-05	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-05	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-05	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-05	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-05	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-05	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-05	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-05	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-05	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-05	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-05	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-05	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-05	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-05	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-05	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-06	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J25063

TestAmerica Irvine

Printed: 10/31/2008 6:46:43PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1929-06	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-06	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-06	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-06	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-06	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-06	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-06	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-06	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-06	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-06	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-06	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-06	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-06	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-06	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-07	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-07	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-07	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-07	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-07	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-07	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag

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TestAmerica Irvine

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Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1929-07	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-07	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-07	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-07	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-07	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-07	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-07	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-07	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-07	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-08	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-08	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-08	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-08	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-08	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-08	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-08	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-08	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-08	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-08	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-08	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag

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8J25063

TestAmerica Irvine

Printed: 10/31/2008 6:46:43PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1929-08	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-08	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-08	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-08	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-09	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-09	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-09	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-09	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-09	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-09	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-09	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-09	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-09	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-09	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-09	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-09	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-09	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-09	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-09	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-10	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag

Spiking Witnessed By Date

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Extracts Received By Date

PREPARATION BENCH SHEET

8J25063

TestAmerica Irvine

Printed: 10/31/2008 6:46:43PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1929-10	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-10	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-10	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-10	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-10	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-10	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-10	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-10	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-10	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-10	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-10	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-10	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-10	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-10	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-11	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-11	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-11	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-11	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-11	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-11	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J25063

TestAmerica Irvine

Printed: 10/31/2008 6:46:43PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1929-11	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-11	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-11	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-11	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-11	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-11	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-11	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-11	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-11	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-12	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-12	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-12	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-12	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-12	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-12	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-12	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-12	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-12	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-12	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-12	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag

Spiking Witnessed By Date

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TestAmerica Irvine

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Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1929-12	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-12	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-12	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-12	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-13	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-13	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-13	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-13	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-13	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-13	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-13	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-13	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-13	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-13	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-13	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-13	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-13	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-13	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-13	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-14	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag

Spiking Witnessed By Date

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PREPARATION BENCH SHEET

8J25063

TestAmerica Irvine

Printed: 10/31/2008 6:46:43PM

Matrix: Soil

Prepared using: Metals - EPA 3050B ICP

(No Surrogate)

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1929-14	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-14	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-14	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-14	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-14	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-14	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-14	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-14	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-14	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-14	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-14	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-14	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-14	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-14	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-15	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-15	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-15	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-15	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-15	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-15	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag

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Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1929-15	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-15	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-15	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-15	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-15	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-15	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-15	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-15	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-15	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-16	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-16	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-16	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-16	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-16	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-16	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-16	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-16	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-16	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-16	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-16	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J25063

TestAmerica Irvine

Printed: 10/31/2008 6:46:43PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1929-16	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-16	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-16	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-16	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-17	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-17	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-17	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-17	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-17	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-17	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-17	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-17	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-17	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-17	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-17	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-17	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-17	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-17	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-17	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-18	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J25063

TestAmerica Irvine

Printed: 10/31/2008 6:46:43PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1929-18	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-18	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-18	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-18	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-18	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-18	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-18	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-18	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-18	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-18	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-18	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-18	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-18	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-18	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-19	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-19	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-19	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-19	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-19	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-19	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J25063

TestAmerica Irvine

Printed: 10/31/2008 6:46:43PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1929-19	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-19	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-19	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-19	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-19	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-19	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-19	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-19	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-19	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-20	-	Beryllium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-20	-	Vanadium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-20	-	Thallium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-20	-	Silver-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-20	-	Selenium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-20	-	Nickel-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-20	-	Molybdenum-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-20	-	Lead-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-20	-	Copper-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-20	-	Cobalt-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-20	-	Cadmium-6020	10/25/08 15:27	2	50										BP Sequence. J flag

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J25063

TestAmerica Irvine

Printed: 10/31/2008 6:46:43PM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	Spike 2	ul Spike	ul Surrogate	Initials			Extraction Comments
IRJ1929-20	-	Barium-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-20	-	Arsenic-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-20	-	Zinc-6020	10/25/08 15:27	2	50										BP Sequence. J flag
IRJ1929-20	-	Chromium-6020	10/25/08 15:27	2	50										BP Sequence. J flag

Reagents used in Batch

Reagent	Description	Solvent

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

PREPARATION BENCH SHEET

8J26028

TestAmerica Irvine

Printed: 12/3/2008 9:59:44AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP (Aq. Reg.)** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	ul Surrogate	Initials		Extraction Comments
8J26028-BLK1		QC	10/26/08 13:42	2	50							
8J26028-BS1		QC	10/26/08 13:42	2	50		8090397	1000				
8J26028-DUP1		QC	10/26/08 13:42	2	10	IRJ1929-20						
8J26028-MS1		QC	10/26/08 13:42	2	50	IRJ1929-01	8090397	1000				
8J26028-MSD1		QC	10/26/08 13:42	2	50	IRJ1929-01	8090397	1000				
IRJ1929-01	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag
IRJ1929-02	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag
IRJ1929-03	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag
IRJ1929-04	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag
IRJ1929-05	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag
IRJ1929-06	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag
IRJ1929-07	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag
IRJ1929-08	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag
IRJ1929-09	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag
IRJ1929-10	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag
IRJ1929-11	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag
IRJ1929-12	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag
IRJ1929-13	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag
IRJ1929-14	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag
IRJ1929-15	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag

n/a — Spiking Witnessed By — Date

NH — Preparation Reviewed By — 12/3/08 Date

HH — Extracts Received By — 12/3/08 Date

574

PREPARATION BENCH SHEET

8J26028

TestAmerica Irvine

Printed: 12/3/2008 9:59:44AM

Matrix: Soil **Prepared using: Metals - EPA 3050B ICP (Aq. Reg.)** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	ul Surrogate	Initials		Extraction Comments
IRJ1929-16	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag
IRJ1929-17	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag
IRJ1929-18	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag
IRJ1929-19	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag
IRJ1929-20	A	Antimony-6020 (Aq Re	10/26/08 13:42	2	50							BP Sequence. J flag

Reagents used in Batch

Reagent	Description	Solvent

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

SEMI-ANNUAL MDL STUDY

Metals by ICPMS - EPA 6020/200.8

Analyt. Method: EPA 6020 / 200.8 — Instruments: Elan
Prep Method: EPA 3005A / 200.2
Matrix: Water (50ml-->50ml) — Cu [63]: alternative line
Units: ug/L — Fe: 10 x nominal conc

Reviewed: T.Vu (Apr/10/08)

#	Analyte	Spike(mg/l)		MDL Runs - (ug/L)								Calc Data (ug/L)			final	LIMS Data (ug/L)			Validation Criteria				Grubbs	Symbol
		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	Comm't	
1	Aluminum	<=10	10	12.38	12.27	11.63	11.59	11.47	11.44	14.68	11.99	12.18	1.07	3.21	3.2	6.0	10		OK	-46%	3	122%	2.33	Al [27]
2	Antimony	<=1	1	1.091	1.095	1.094	1.086	1.074	1.113	1.087	1.088	1.09	0.01	0.03	0.0	0.2	2	1	OK	-84%	30	109%		Sb [121]
3	Arsenic	<=1	1	1.027	1.072	1.046	1.121	0.698	0.706	0.94	0.666	0.91	0.19	0.57	0.6	0.70	1		OK	-19%	2	91%		As [75]
4	Barium	<=1	1	1.116	1.108	1.064	1.104	1.082	1.055	1.074	1.101	1.09	0.02	0.07	0.1	0.4	1		OK	-83%	15	109%		Ba [135]
5	Beryllium	<=0.2	0.2	0.221	0.221	0.216	0.235	0.218	0.26	0.268	0.211	0.23	0.02	0.06	0.06	0.075	0.5	0.2	OK	-14%	3	116%		Be [9]
6	Cadmium	<=0.2	0.2	0.201	0.207	0.208	0.203	0.201	**0.215**	0.203	0.203	0.21	0.00	0.01	0.01	0.11	1	0.2	OK	-87%	14	103%	2.09	Cd [114]
7	Cerium	<=1	1	1.114	1.129	1.109	1.109	1.089	1.084	1.084	1.085	1.10	0.02	0.05	0.1	0.35	1		OK	-85%	19	110%		Ce [140]
8	Chromium	<=1	1	1.3	1.257	1.259	1.218	1.27	1.281	1.284	1.306	1.27	0.03	0.08	0.1	0.70	2	1	OK	-88%	12	127%		Cr [52]
9	Cobalt	<=1	1	1.124	1.109	1.115	1.098	1.099	1.112	1.108	1.122	1.11	0.01	0.03	0.0	0.15	1		OK	-81%	35	111%		Co [59]
10	Copper	<=1	1	1.144	1.16	1.131	1.132	1.131	1.074	**1.248**	1.079	1.14	0.05	0.16	0.2	0.75	2	1	OK	-78%	6	114%	2.05	Cu [65]
11	Copper[63]	<=1	1	1.144	1.145	1.142	1.168	1.097	1.125	**1.249**	1.118	1.15	0.05	0.14	0.1	0.30	2	1	OK	-54%	7	115%	2.19	Cu [63]
12	Lead	<=1	1	1.168	1.145	1.15	1.14	1.119	1.143	1.133	1.109	1.14	0.02	0.05	0.1	0.3	1		OK	-82%	18	114%		Pb [208]
13	Manganese	<=1	1	1.136	1.083	1.05	1.088	1.106	1.126	1.143	1.114	1.11	0.03	0.09	0.1	0.75	1		OK	-88%	11	111%		Mn [55]
14	Molybdenum	<=1	1	1.122	1.261	1.252	1.117	1.074	1.061	1.08	1.06	1.13	0.08	0.25	0.2	0.2	2	1	OK	24%	4	113%		Mo [98]
15	Nickel	<=1	1	1.179	1.187	1.156	1.171	1.047	1.107	1.064	1.093	1.13	0.05	0.16	0.2	0.90	2	1	OK	-82%	6	113%		Ni [60]
16	Selenium	<=1	1	0.927	1.007	0.973	0.92	0.93	0.959	0.97	0.927	0.95	0.03	0.09	0.1	0.3	2	1	OK	-69%	11	95%		Se [82]
17	Silver	<=1	1	1.152	1.143	1.123	1.12	1.11	1.112	1.122	1.102	1.12	0.02	0.05	0.1	0.3	1		OK	-83%	20	112%		Ag [107]
18	Thallium	<=1	1	1.192	1.205	1.189	1.18	1.132	1.148	1.157	1.138	1.17	0.03	0.08	0.1	0.2	1		OK	-59%	12	117%		Tl [205]
19	Uranium	<=1	1	1.179	1.142	1.14	1.156	1.145	1.173	1.172	1.15	1.16	0.02	0.05	0.0	0.5	1		OK	-91%	22	116%		U [238]
20	Vanadium	<=1	1	1.17	1.102	1.087	0.997	1.079	1.011	1.219	1.055	1.09	0.08	0.23	0.2	0.7	2	1	OK	-68%	4	109%		V [51]
21	Zinc	<=5	2	2.843	2.725	2.725	2.66	2.398	**3.615**	2.8	2.802	2.82	0.35	1.05	1.0	2.5	10	5	OK	-58%	2	141%	2.27	Zn [66]
22	Tungsten	<=2														0.5	2							W [184]

For 0.1 ppb MDL:

17	Silver	<=1	0.2	0.227	0.228	0.231	0.215	0.222	0.225	0.231	0.225	0.23	0.01	0.02	0.02	0.2	1		OK	-92%	13	113%		Ag [107]

SEMI-ANNUAL MDL STUDY

Metals by ICPMS - EPA 6020/200.8

Analytical Method: EPA 6020 / 200.8 — Instruments: Elan2
Prep Method: EPA 3005A / 200.2
Matrix: Water (50ml-->50ml) — Cu [63]: alternative line
Units: ug/L — Fe: 10 x nominal conc

#	Analyte	Spike(mg/l)		MDL Runs - (ug/L)								Calc Data (ug/L)			final	LIMS Data (ug/L)			Validation Criteria				Grubbs	Symbol
		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	Comm't	
1	Aluminum	<=10	10	10.83	10.73	10.41	10.14	12.33	12.09	15.96	12.54	11.88	1.89	5.66	5.7	6.0	10		OK	-6%	2	119%	2.16	Al [27]
2	Antimony	<=1	1	1.133	1.114	1.131	1.121	1.226	1.223	1.235	1.222	1.18	0.05	0.16	0.2	0.2	2	1	OK	-18%	6	118%		Sb [121]
3	Arsenic	<=1	1	1.427	1.359	1.504	1.296	1.125	1.104	1.065	0.959	1.23	0.19	0.58	0.6	0.70	1		OK	-17%	2	123%		As [75]
4	Barium	<=1	1	1.076	1.085	1.040	1.050	1.174	1.159	1.176	1.205	1.12	0.06	0.19	0.2	0.4	1		OK	-52%	5	112%		Ba [135]
5	Beryllium	<=0.2	0.2	0.219	0.221	0.214	0.209	0.284	0.259	0.256	0.253	0.24	0.03	0.08	0.1	0.2	0.5	0.2	OK	-59%	2	120%		Be [9]
6	Cadmium	<=0.2	0.2	0.212	0.208	0.203	0.209	0.264	0.267	0.247	0.246	0.23	0.03	0.08	0.1	0.11	1	0.2	OK	-27%	2	116%		Cd [114]
7	Cerium	<=1	1	1.031	1.036	1.027	1.031	1.010	1.007	0.991	1.011	1.02	0.02	0.05	0.0	0.35	1		OK	-87%	21	102%		Ce [140]
8	Chromium	<=1	1	1.831	1.849	1.844	1.842	2.223	2.152	2.095	2.269	2.01	0.19	0.57	0.6	0.70	2	1	OK	-19%	2	201%		Cr [52]
9	Cobalt	<=1	1	1.124	1.126	1.117	1.114	1.120	1.130	1.111	1.119	1.12	0.01	0.02	0.0	0.15	1		OK	-87%	52	112%		Co [59]
10	Copper	<=1	1	1.126	1.117	contam	1.155	1.128	1.144	1.26	1.139	1.15	0.05	0.15	0.2	0.75	2	1	OK	-80%	7	115%	2.19	Cu [65]
11	Copper[63]	<=1	1	1.149	1.149	contam	1.169	1.152	1.149	1.25	1.156	1.17	0.04	0.12	0.1	0.30	2	1	OK	-60%	8	117%	2.23	Cu [63]
12	Lead	<=1	1	1.177	1.171	1.167	1.162	1.123	1.127	1.129	1.138	1.15	0.02	0.07	0.1	0.3	1		OK	-78%	18	115%		Pb [208]
13	Manganese	<=1	1	1.140	1.067	1.061	1.42	1.066	1.076	1.082	1.100	1.13	0.12	0.36	0.4	0.75	1		OK	-52%	3	113%	2.42	Mn [55]
14	Molybdenum	<=1	1	1.083	1.071	1.059	1.041	1.175	1.180	1.190	1.207	1.13	0.07	0.20	0.2	0.2	2	1	OK	no ch'g	5	113%		Mo [98]
15	Nickel	<=1	1	1.134	1.112	1.32	1.071	1.089	1.107	1.112	1.122	1.13	0.08	0.23	0.2	0.90	2	1	OK	-74%	4	113%	2.4	Ni [60]
16	Selenium	<=1	1	1.022	0.899	0.958	0.882	1.005	1.091	0.974	1.012	0.98	0.07	0.20	0.2	0.3	2	1	OK	-32%	5	98%		Se [82]
17	Silver	<=1	1	1.170	1.133	1.140	1.117	1.217	1.225	1.237	1.218	1.18	0.05	0.14	0.14	0.3	1		OK	-52%	7	118%		Ag [107]
18	Thallium	<=1	1	1.169	1.200	1.190	1.187	1.104	1.109	1.107	1.106	1.15	0.04	0.13	0.1	0.2	1		OK	-35%	8	115%		Tl [205]
19	Uranium	<=1	1	1.170	1.159	1.158	1.155	1.089	1.119	1.100	1.114	1.13	0.03	0.09	0.1	0.5	1		OK	-81%	11	113%		U [238]
20	Vanadium	<=1	2	1.606	1.672	1.415	1.413	1.847	1.701	2.032	1.439	1.64	0.22	0.67	0.7	0.7	2	1	OK	no ch'g	3	82%		V [51]
21	Zinc	<=5	2	2.929	2.838	2.905	2.776	2.917	4.14	3.284	3.321	3.14	0.45	1.36	1.4	2.5	10	5	OK	-46%	1	157%	2.22	Zn [66]
22	Tungsten	<=2														0.5	2							W [184]
	For 0.1ppb MDL																							
17	Silver	<=1	0.2	0.229	0.225	0.230	0.222	0.245	0.243	0.248	0.242	0.24	0.01	0.03	0.03	0.2	1		OK	-85%	7	118%		Ag [107]
9	Cobalt	<=1	0.2	0.218	0.217	0.216	0.221	0.270	0.273	0.250	0.250	0.24	0.02	0.07	0.07	0.15	1		OK	-52%	3	120%		Co [59]
7	Cerium	<=1	0.2	0.201	0.202	0.203	0.203	0.183	0.186	0.181	0.183	0.19	0.01	0.03	0.03	0.35	1		OK	-91%	7	96%		Ce [140]
12	Lead	<=1	0.2	0.243	0.236	0.229	0.237	0.259	0.262	0.254	0.255	0.25	0.01	0.04	0.04	0.10	1		OK	-63%	5	123%		Pb [208]

1ppb	*filename:*	080312-2	080312-2	080312-2	080312-2	080313-1	080313-1	080313-1	080313-1-021
	labnumber:	MDL-1PP	MDL-1PP	MDL-1PP	MDL-1PP	MDL-1PP	MDL-1PP	MDL-1PP	MDL-1PPB-8
	date:	Mar/12/0E	Mar/12/0E	Mar/12/0E	Mar/12/0E	Mar/13/0E	Mar/13/0E	Mar/13/0E	Mar/13/08
	time:	14:41	14:45	14:49	14:53	10:37	10:40	10:44	10:48
0.2ppb	*filename:*	080312-2	080312-2	080312-2	080312-2	080313-1	080313-1	080313-1	080313-1-017
	labnumber:	MDL-0.2F	MDL-0.2F	MDL-0.2F	MDL-0.2F	MDL-0.2F	MDL-0.2F	MDL-0.2F	MDL-0.2PPB-8
	date:	Mar/12/0E	Mar/12/0E	Mar/12/0E	Mar/12/0E	Mar/13/0E	Mar/13/0E	Mar/13/0E	Mar/13/08
	time:	14:26	14:30	14:34	14:37	10:21	10:25	10:29	10:33
2ppb	*filename:*	080312-2	080312-2	080312-2	080312-2	080313-1	080313-1	080313-1	080313-1-027
	labnumber:	MDL-2PP	MDL-2PP	MDL-2PP	MDL-2PP	MDL-2PP	MDL-2PP	MDL-2PP	MDL-2PPB-8
	date:	Mar/12/0E	Mar/12/0E	Mar/12/0E	Mar/12/0E	Mar/13/0E	Mar/13/0E	Mar/13/0E	Mar/13/08
	time:	15:06	15:10	15:13	15:17	11:00	11:04	11:08	11:11
10ppb	*filename:*	080312-2	080312-2	080312-2	080312-2	080313-1	080313-1	080313-1	080313-1-031

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 7470A

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Project: BP Yerington, NV, Soils
Instrument ID: CV-Hg2
Calibration: I8J2306
Control Limt: +/- 20.00%
Sequence: IJ82314

Lab Sample ID	Analyte	True	Found	%R	Units	Method	Analyzed
IJ82314-ICV1	Mercury	8.00	8.14	102	ug/l	EPA 7470A	10/23/08 11:18
IJ82314-CCV1	Mercury	4.00	4.09	102	ug/l	EPA 7470A	10/23/08 13:07
IJ82314-CCV2	Mercury	4.00	4.14	103	ug/l	EPA 7470A	10/23/08 13:43
IJ82314-CCV3	Mercury	4.00	4.49	112	ug/l	EPA 7470A	10/23/08 14:07
IJ82314-CCV4	Mercury	4.00	4.56	114	ug/l	EPA 7470A	10/23/08 14:15

* Values outside of QC limits

CRDL STANDARD

EPA 7470A

Laboratory: TestAmerica Irvine

SDG:

Client: Brown and Caldwell - NV

Project: BP Yerington, NV, Soils

Instrument ID: CV-Hg2

Calibration: I8J2306

Sequence: IJ82314

Injection Date: 10/23/08 11:22

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
IJ82314-CRL1	Mercury	0.200	0.169	84	ug/l	50 - 150
IJ82314-CRL2	Mercury	0.200	0.145	73	ug/l	50 - 150
IJ82314-CRL3	Mercury	0.200	0.155	77	ug/l	50 - 150

* Values outside of QC limits

BLANKS
EPA 7470A

Laboratory: TestAmerica Irvine
SDG:
Client: Brown and Caldwell - NV
Instrument ID: CV-Hg2
Project: BP Yerington, NV, Soils
Sequence: IJ82314
Calibration: I8J2306

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
IJ82314-ICB1	Mercury	-0.0127	0.20	ug/l		EPA 7470A	10/23/08 11:2
IJ82314-CCB1	Mercury	-0.0851	0.20	ug/l		EPA 7470A	10/23/08 13:0
IJ82314-CCB2	Mercury	-0.0191	0.20	ug/l		EPA 7470A	10/23/08 13:4
IJ82314-CCB3	Mercury	-0.0419	0.20	ug/l		EPA 7470A	10/23/08 14:0
IJ82314-CCB4	Mercury	-0.0505	0.20	ug/l		EPA 7470A	10/23/08 14:1

Sample Information Detail Report
Document Name: 081023-1

File Description
FIMS-Hg2

Parameters Common to All Samples

Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Batch ID
1	1	Calibration Blank	
2	2	Standard 1	
3	3	Standard 2	
4	4	Standard 3	
5	5	Standard 4	
6	6	Standard 5	
7	9	ICV	
8	8	ICB	
9	2	.2PPB	
10	10	8J23094-BLK1	8J23094
11	11	8J23094-BS1	8J23094
12	12	~~IRJ1929-01@20~~	8J23094
13	13	~~IRJ1929-01@10~~	8J23094
14	14	IRJ1929-01	8J23094
15	15	~~8J23094-MS1~~	8J23094
16	16	8J23094-MS1@2	8J23094
17	17	8J23094-MSD1@2	8J23094
18	18	~~IRJ1207-08~~	8J23094
19	19	~~IRJ1207-08@50~~	8J23094
20	7	CCV	
21	8	CCB	
22	20	IRJ1207-08@100	8J23094
23	21	~~IRJ1207-09@100~~	8J23094
24	22	IRJ1207-09@20	8J23094
25	23	IRJ1929-02	8J23094
26	24	IRJ1929-03	8J23094
27	25	IRJ1929-04	8J23094
28	26	IRJ1929-05	8J23094
29	27	IRJ1929-06	8J23094
30	28	IRJ1929-07	8J23094
31	7	CCV	
32	8	CCB	
33	2	BP CHK	
34	29	IRJ1929-08	8J23094
35	30	IRJ1929-09	8J23094
36	31	IRJ1929-10	8J23094
37	32	IRJ1929-11	8J23094
38	33	IRJ1929-12	8J23094
39	34	IRJ1929-13	8J23094
40	35	IRJ1929-14	8J23094
41	36	IRJ1929-15	8J23094
42	37	IRJ1929-16	8J23094
43	7	CCV	
44	8	CCB	
45	38	IRJ1929-17	8J23094
46	39	IRJ1929-18	8J23094
47	7	CCV	
48	8	CCB	
49	2	BP CHK	

Sample No	Analysis	Sample Units *
1	0ppb	ug/L
2	0.2ppb	ug/L
3	1.0ppb	ug/L
4	5.0ppb	ug/L
5	10.0ppb	ug/L
6	15.0ppb	ug/L

PREPARATION BENCH SHEET

8J23094

TestAmerica Irvine

Printed: 10/23/2008 11:23:20AM

Matrix: Soil | Prepared using: Metals - EPA 7471A Hg | (No Surrogate)

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike 1	ul Spike	ul Surrogate	Initials		Extraction Comments
8J23094-BLK1		QC	10/23/08 11:21	0.5	50							
8J23094-BS1		QC	10/23/08 11:21	0.5	50		8100446	400				
8J23094-MS1		QC	10/23/08 11:21	0.5	50	IRJ1929-01	8100446	400				
8J23094-MSD1		QC	10/23/08 11:21	0.5	50	IRJ1929-01	8100446	400				
IRJ1207-08	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag
IRJ1207-09	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag
IRJ1929-01	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag
IRJ1929-02	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag
IRJ1929-03	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag
IRJ1929-04	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag
IRJ1929-05	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag
IRJ1929-06	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag
IRJ1929-07	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag
IRJ1929-08	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag
IRJ1929-09	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag
IRJ1929-10	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag
IRJ1929-11	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag
IRJ1929-12	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag
IRJ1929-13	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag
IRJ1929-14	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag

N/A — Spiking Witnessed By — Date

DB — Preparation Reviewed By — 10/23/08 Date

DB — Extracts Received By — 10/23/08 Date

1028

PREPARATION BENCH SHEET

8J23094

TestAmerica Irvine

Printed: 10/23/2008 11:23:20AM

Matrix: Soil **Prepared using: Metals - EPA 7471A Hg** **(No Surrogate)**

Lab Number	C	Analysis	Prepared	Initial (g)	Final (ml)	Source ID	Spike I	ul Spike	ul Surrogate	Initials		Extraction Comments
IRJ1929-15	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag
IRJ1929-16	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag
IRJ1929-17	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag
IRJ1929-18	A	Mercury-7470/7471	10/23/08 11:21	0.5	50							BP Sequence. J flag

Reagents used in Batch

Reagent	Description	Solvent

Spiking Witnessed By Date

Preparation Reviewed By Date

Extracts Received By Date

MDL STUDY & VERIFICATION

MERCURY by COLD VAPOR ATOMIC ABSORPTION

EPA 7470A/ 7471A / 245.1

Analyt. Method: EPA 7471 / 7471A / 245.1 P/E FIMS2
Prep Method: EPA 245.1 / 7470 A
Matrix: Water (20ml->20ml)
Units: ug/L(raw) - mg/L(final)

Reviewed: T. Vu (Sept/19/08)

#	Analyte	Spike raw (ug/L)	Spike final (mg/L)	MDL Runs - (ug/L oc) Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	MDL Calculation Avr'g	Std Dev	oc MDL	final MDL	LIMS (mg/L) MDL	MRL	Validation Criteria MDL<RL	Ch'g	avr'g-to-calcMDL [1-10]	spike-to-LimsMDL [1-2]	%Rec	Comm't Grubbs test
			filename:	080918-3-0	080918-3-010	080918-3-0	080918-3-0	080918-4-009	080918-4-0	080918-4-0	080918-4-012												
			labnumber:	MDL1 wate	MDL2 water	MDL3 wate	MDL4 wate	MDL5 water	MDL6 wate	MDL7 wate	MDL8 water												
			date:	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08												
			time:	18:15	18:17	18:19	18:21	18:44	18:46	18:48	18:50												
1	Mercury	0.2	0.0002	0.1863	0.201	0.193	0.209	0.202	0.180	0.203	0.206	0.198	0.010	0.0301	0.00003	0.0001	0.0002	OK	-70%	6.6	2.0	99%	Verified

Analyt. Method: EPA 7471 / 7471A / 245.1 P/E FIMS2
Prep Method: EPA 245.1 / 7470 A
Matrix: Soil (0.5g->50ml)
Units: ug/L(raw) - mg/Kg(final)

Reviewed: T. Vu (Sept/19/08)

#	Analyte	Spike raw (ug/L)	Spike final (mg/Kg)	MDL Runs - (ug/L oc) Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	MDL Calculation Avr'g	Std Dev	oc MDL	final MDL	LIMS (mg/Kg) MDL	MRL	Validation Criteria MDL<RL	Ch'g	avr'g-to-calcMDL [1-10]	spike-to-LimsMDL [1-2]	%Rec	Comm't Grubbs test
			filename:	080918-1-0	080918-1-023	080918-1-0	080918-1-0	080918-2-009	080918-2-0	080918-2-011													
			labnumber:	MDL1 soil	MDL2 soil	MDL3 soil	MDL4 soil	MDL5 soil	MDL6 soil	MDL7 soil													
			date:	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08	Sep/18/08													
			time:	17:08	17:09	17:11	17:13	17:42	17:44	17:46													
1	Mercury	0.2	0.02	0.196	0.184	0.165	0.167	0.186	0.189	0.164		0.179	0.013	0.0411	0.0041	0.012	0.020	OK	-66%	4.3	1.7	89%	Verified