STL

STL Edison
777 New Durham Road
Edison, NJ 08817

Tel 732 549 3900 Fax 732 549 3679
www.stl-inc.com

07/27/2007

ECC
63 Herb Hill Road
Glen Cove, NY 11542

Attention: Mr. Theodore Johnson

Laboratory Results
Job No. I690 - Li Tungsten

Dear Mr. Johnson:

Enclosed are the results you requested for the following sample(s) received at our laboratory on July 14, 2007.

Lab No.	Client ID	Analysis Required
845846	5601-FSS-PC-1014	As
		Pb
845847	5601-FSS-PC-1020	As
		Pb
845848	5601-FSS-PC-1021	As
		Pb
845849	5601-FSS-PC-1025-1	As
		Pb
845850	5601-FSS-PC-1028	As
		Pb
845851	5601-FSS-PC-1044	As

STL Edison
777 New Durham Road
Edison, NJ 08817

Tel 732 549 3900 Fax 732 549 3679
www.stl-inc.com

Laboratory Results
Job No. I690 - Li Tungsten (cont'd)

Lab No.	Client ID	Analysis Required
		Pb

This report is not to be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please contact me at (732) 549-3900.

Very Truly Yours,

Michael Legg
Project Manager

Analytical Results Summary **1**

General Information **8**
Chain of Custody 8
Laboratory Chronicles 10
Methodology Review 17
Data Reporting Qualifiers 21
Non-Conformance Summary 23

Metals Forms and Data **25**
Analytical Results Summary 25
Blank Results Summary 32
Calibration Summary 35
ICP Interference Check Results Summary 39
Spike Sample Recovery Summary 42
Sample and MS Duplicate Results Summary 45
Laboratory Control Samples Results Summary 48
Serial Dilution Summary 50
Analysis Run Log 52

This is the Last Page of the Document **55**

Analytical Results Summary

Client ID: **5601-FSS-PC-1014**
Site: **Li Tungsten**

Lab Sample No: 845846
Lab Job No: I690

Date Sampled: 07/13/07
Date Received: 07/14/07

Matrix: SOLID
Level: LOW
% Moisture: 8.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	5.6	1.0	*	P
Lead	19.9	0.59	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **5601-FSS-PC-1020**
Site: **Li Tungsten**

Lab Sample No: 845847
Lab Job No: I690

Date Sampled: 07/13/07
Date Received: 07/14/07

Matrix: SOLID
Level: LOW
% Moisture: 9.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	6.9	0.95	*	P
Lead	22.0	0.54	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **5601-FSS-PC-1021**
Site: **Li Tungsten**

Lab Sample No: 845848
Lab Job No: I690

Date Sampled: 07/13/07
Date Received: 07/14/07

Matrix: SOLID
Level: LOW
% Moisture: 10.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	10.3	1.1	*	P
Lead	9.9	0.61	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **FSS-PC-1025-1**
Site: **Li Tungsten**

Lab Sample No: 845849
Lab Job No: I690

Date Sampled: 07/13/07
Date Received: 07/14/07

Matrix: SOLID
Level: LOW
% Moisture: 19.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	ND	1.2	*	P
Lead	4.3	0.67	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **5601-FSS-PC-1028**
Site: **Li Tungsten**

Lab Sample No: 845850
Lab Job No: I690

Date Sampled: 07/13/07
Date Received: 07/14/07

Matrix: SOLID
Level: LOW
% Moisture: 20.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	1.8	1.2	*	P
Lead	3.1	0.68	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **5601-FSS-PC-1044**
Site: **Li Tungsten**

Lab Sample No: 845851
Lab Job No: I690

Date Sampled: 07/13/07
Date Received: 07/14/07

Matrix: SOLID
Level: LOW
% Moisture: 8.7

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	6.1	1.0	*	P
Lead	11.5	0.59	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

General Information

Chain of Custody

I690

TestAmerica Edison

Chain of Custody Record

ENVIRONMENTAL CHEMICAL CORPORATION
746 Colorado Blvd., Suite 350
akewood, CO 80401
hone: (303) 298-7607
ax: (303) 298-7837

I 690

COC Number:

Customer Name: ECC- Li Tungsten
Address: 63 Herzhill Rd, Glen Cove NY 11542
Contact: Theodore Johnson
Phone: (203) 472-8834
Fax: 516-665-8531

ECC Project Manager: Glenn Henderson
Sampler Name: Mike LaBlanc
ECC Project Number: 5601
Customer Project Name: Li Tungsten

SAMPLE NUMBER	DATE	TIME	TYPE	CLIENT SAMPLE IDENTIFIER	TESTS	CONTAINER(S)	MATRIX
601-FSS-PC-1014	7-13-07	1425	FSS	Parcel C 345 846	Total Arsenic, Total Lead	1-8oz glass jar	Soil
601-FSS-PC-1020		1440		847			
601-FSS-PC-1021		1430		848			
601-FSS-PC-1025-1		1445		849			
601-FSS-PC-1028		1435		850			
601-FSS-PC-1044		1430		851			
				N/A			

Notes: Ship to Severn Trent Laboratory, Edison (732) 549-3900
777 New Durham Rd, Suite 7
Edison, New Jersey 08817
Request Turnaround Time: 3 days

Samples cooled below 4°C

Laboratory Receipt Information
Cooler/Container Intact? Yes____ No____
Samples Received at below 4°C? Yes____ No____
Sample Containers Intact? Yes____ No____
Cooler/Container Custody Seal? Yes____ No____

2°

CUSTODY TRANSFER RECORD

Relinquished by: (signature)	Company:	Date:	Time:	Received by: (signature)	Company:	Date:	Time:
M. LaBlanc	ECC	7-13-07	1600	[illegible]			
[illegible]		7/14/07	9:30	[illegible]	Test America	7/14	9:30

9

Laboratory Chronicles

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	I690	**Site:**	Li Tungsten
Client:	ECC	**Date Sampled:**	7/13/2007
Sample No.:	845846	**Date Received:**	7/14/2007
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
ARSENIC	7/17/2007	Sanagavarapu, Suguna	7/17/2007	Polidori, Michael	22932
LEAD	7/17/2007	Sanagavarapu, Suguna	7/17/2007	Polidori, Michael	22932

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	I690	**Site:**	Li Tungsten
Client:	ECC	**Date Sampled:**	7/13/2007
Sample No.:	845847	**Date Received:**	7/14/2007
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
ARSENIC	7/17/2007	Sanagavarapu, Suguna	7/17/2007	Polidori, Michael	22932
LEAD	7/17/2007	Sanagavarapu, Suguna	7/17/2007	Polidori, Michael	22932

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	I690	**Site:**	Li Tungsten
Client:	ECC	**Date Sampled:**	7/13/2007
Sample No.:	845848	**Date Received:**	7/14/2007
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
ARSENIC	7/17/2007	Sanagavarapu, Suguna	7/17/2007	Polidori, Michael	22932
LEAD	7/17/2007	Sanagavarapu, Suguna	7/17/2007	Polidori, Michael	22932

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	I690	**Site:**	Li Tungsten
Client:	ECC	**Date Sampled:**	7/13/2007
Sample No.:	845849	**Date Received:**	7/14/2007
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
ARSENIC	7/17/2007	Sanagavarapu, Suguna	7/17/2007	Polidori, Michael	22932
LEAD	7/17/2007	Sanagavarapu, Suguna	7/17/2007	Polidori, Michael	22932

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	I690	**Site:**	Li Tungsten
Client:	ECC	**Date Sampled:**	7/13/2007
Sample No.:	845850	**Date Received:**	7/14/2007
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
ARSENIC	7/17/2007	Sanagavarapu, Suguna	7/17/2007	Polidori, Michael	22932
LEAD	7/17/2007	Sanagavarapu, Suguna	7/17/2007	Polidori, Michael	22932

INTERNAL CUSTODY RECORD
AND
LABORATORY CHRONICLE
STL Edison

777 New Durham Road, Edison, New Jersey
08817

Job No:	I690	**Site:**	Li Tungsten
Client:	ECC	**Date Sampled:**	7/13/2007
Sample No.:	845851	**Date Received:**	7/14/2007
		Matrix:	SOLID

METALS

Analytic Parameter	Preparation Date	Technician's Name	Analysis Date	Analyst's Name	QA Batch
ARSENIC	7/17/2007	Sanagavarapu, Suguna	7/17/2007	Polidori, Michael	22932
LEAD	7/17/2007	Sanagavarapu, Suguna	7/17/2007	Polidori, Michael	22932

Methodology Review

Analytical Methodology Summary

Volatile Organics:

Unless otherwise specified, water samples are analyzed for volatile organics by purge and trap GC/MS as specified in EPA Method 624. Drinking water samples are analyzed by EPA Method 524.2 Rev 4.1. Solid samples are analyzed for volatile organics as specified in the EPA publication “Test Methods for Evaluating Solid Waste” (SW-846, 3rd Edition) Method 8260B.

Acid and Base/Neutral Extractable Organics:

Unless otherwise specified, water samples are analyzed for acid and/or base/neutral extractable organics by GC/MS in accordance with EPA Method 625. Solids are analyzed for acid and/or base/neutral extractable organics as specified in the EPA publication “Test Methods for Evaluating Solid Waste” (SW-846, 3rd Edition) Method 8270C.

GC/MS Nontarget Compound Analysis:

Analysis for nontarget compounds is conducted, upon request, in conjunction with GC/MS analyses by EPA Methods 624, 625, 8260B and 8270C. Nontarget compound analysis is conducted using a forward library search of the EPA/NIH/NBS mass spectral library of compounds at the greatest apparent concentration (10% or greater of the nearest internal standard) in each organic fraction (15 for volatile, 15 for base/neutrals and 10 for acid extractables).

Organochlorine Pesticides and PCBs:

Unless otherwise specified, water samples are analyzed for organochlorine pesticides and PCBs by dual column gas chromatography with electron capture detectors as specified in EPA Method 608. Solid samples are analyzed as specified in the EPA publication “Test Methods for Evaluating Solid Waste” (SW-846, 3rd Edition) Method 8081A for organochlorine pesticides and Method 8082 for PCBs.

Total Petroleum Hydrocarbons:

Water samples are analyzed for petroleum hydrocarbons by I.R. using EPA Method 418.1. Solid samples are prepared for analysis by soxhlet extraction consistent with the March 1990 N.J. DEP “Remedial Investigation Guide” Appendix A, page 52, and analyzed by U.S. EPA Method 418.1

Metals Analysis:

Metals analyses are performed by any of four techniques specified by a Method Code provided on each data report page, as follows:

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP)

A - Flame Atomic Absorption

F - Furnace Atomic Absorption

CV - Manual Cold Vapor (Mercury)

Water samples are digested and analyzed using EPA methods provided in “Methods for Chemical Analysis of Water and Wastewater” (EPA 600/4-79-020). Solid samples are analyzed as specified in the EPA publication “Test Methods for Evaluating Solid Waste” (SW-846, 3rd Edition); samples are digested according to Method 3050B “Acid Digestion of Soil, Sediments and Sludges.”

Specific method references for ICP analyses are water Method - 200.7/SW846 6010B and for solid matrix - 6010B. Mercury analyses are conducted by the manual cold vapor technique specified by water Method 245.1/7470A and solid Method 7471A. Other specific Atomic Absorption method references are as follows:

Element	Water Test Method Furnace	Solid Test Method Furnace
Antimony	200.9	7041
Arsenic	200.9	7060A
Cadmium	200.9	7131A
Lead	200.9	7421
Selenium	200.9	7740
Thallium	200.9	7841

Cyanide:

Water samples are analyzed for cyanide using EPA Method 335.3. Cyanide is determined in solid samples as specified in the EPA Contract Laboratory Program IFB dated July 1988, revised February 1989.

Phenols:

Water samples are analyzed for total phenols using EPA Method 420.2. Total phenols are determined in water and solid samples by preparing the sample as outlined in the EPA Contract Laboratory Program IFB for cyanide, followed by a phenols determination using EPA Method 420.1.

Hexavalent Chromium:

Water samples are analyzed using EPA Method 7196A, EPA Method 7199 or (upon request) USGS –1230-35. Soil samples are subjected to alkaline digestion via EPA Method 3060A prior to analysis by EPA Method 7196A or EPA Method 7199.

Cleanup of Semivolatile Extracts:

Upon request Method 3611B Alumina Column Cleanup and/or Method 3650B Acid-Base Partition Cleanup are performed to improve detection limits by the removal of saturated hydrocarbon interferences.

Hazardous Waste Characteristics:

Samples for hazardous waste characteristics are analyzed as specified in the U.S. EPA publication “Test Methods for Evaluating Solid Waste” (SW-846, 3rd Edition). Specific method references are as follows:

Ignitability	- Method 1020A
Corrosivity	- Water pH Method 9040B Soil pH Method 9045C
Reactivity	- Chapter 7, Section 7.3.3 and 7.3.4 respectively for hydrogen cyanide and hydrogen sulfide release
Toxicity	- TCLP Method 1311

Miscellaneous Parameters:

Additional analyses performed on both aqueous and solid samples are in accordance with methods published in the following references:

- Test Methods for Evaluating Solid Wastes, SW-846 3rd Edition, November 1986.
- Standard Methods for the Examination of Water and Wastewater, 18th Edition.
- Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020, 1979.

Data Reporting Qualifiers

ORGANIC DATA REPORTING QUALIFIERS

ND - The compound was not detected at the indicated concentration.

J - Mass spectral data indicates the presence of a compound that meets the identification criteria. The result is less than the specified quantitation limit but greater than or equal to the method detection limit. The concentration given is an approximate value.

B - The analyte was found in the laboratory blank as well as the sample. This indicates possible laboratory contamination of the environmental sample.

P - For dual column analysis, the percent difference between the quantitated concentrations on the two columns is greater than 40%.

* - For dual column analysis, the lowest quantitated concentration is being reported due to coeluting interference.

INORGANIC DATA REPORTING QUALIFIERS (SW-846 METHODS ONLY)

ND/U - The compound was not detected at the indicated concentration.

B - Reported value is less than the Practical Quantitation Limit but greater than or equal to the Instrument Detection Limit.

E - The reported value is estimated because of the presence of interference. See explanatory note in the Nonconformance Summary if the problem applies to all of the samples or on the individual Inorganic Analysis Data Sheet if the problem is isolated.

M - Duplicate injection precision not met on the Furnace Atomic Absorption analysis.

N - The spiked sample recovery is not within control limits.

S - The reported value was determined by the Method of Standard Additions (MSA).

* - Duplicate Analysis is not within control limits.

W - Post digestion spike for Furnace Atomic Absorption analysis is out of control.

+ - Correlation coefficient for MSA is less than 0.995.

M Column - Method Qualifiers

P - Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP).

A - Flame Atomic Absorption Spectroscopy (FAA).

F - Graphite Furnace Atomic Absorption Spectroscopy (GFAA).

CV - Cold Vapor Atomic Absorption Spectroscopy.

Non-Conformance Summary

Nonconformance Summary

STL Edison Job Number: I690

Client: ECC

Date: 7/27/2007

Sample Receipt:

Sample delivery conforms with requirements.

Metals:

Arsenic and lead Sample Duplicate RPD(s) are outside Q.C. limits. Poor precision attributed to non homogeneous sample (LCS/LCSdup RPD are within Q.C. limits).

I certify that the test results contained in this data package meet all requirements of NELAC both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this package has been authorized by the Laboratory Director or their designee, as verified by the following signature.

Michael Legg
Project Manager

Metals Forms and Data

Analytical Results Summary

Client ID: **5601-FSS-PC-1014**
Site: **Li Tungsten**

Lab Sample No: 845846
Lab Job No: I690

Date Sampled: 07/13/07
Date Received: 07/14/07

Matrix: SOLID
Level: LOW
% Moisture: 8.6

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	5.6	1.0	*	P
Lead	19.9	0.59	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **5601-FSS-PC-1020**
Site: **Li Tungsten**

Lab Sample No: 845847
Lab Job No: I690

Date Sampled: 07/13/07
Date Received: 07/14/07

Matrix: SOLID
Level: LOW
% Moisture: 9.8

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	6.9	0.95	*	P
Lead	22.0	0.54	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **5601-FSS-PC-1021**
Site: **Li Tungsten**

Lab Sample No: 845848
Lab Job No: I690

Date Sampled: 07/13/07
Date Received: 07/14/07

Matrix: SOLID
Level: LOW
% Moisture: 10.9

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	10.3	1.1	*	P
Lead	9.9	0.61	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **FSS-PC-1025-1**
Site: **Li Tungsten**

Lab Sample No: 845849
Lab Job No: I690

Date Sampled: 07/13/07
Date Received: 07/14/07

Matrix: SOLID
Level: LOW
% Moisture: 19.0

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	ND	1.2	*	P
Lead	4.3	0.67	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **5601-FSS-PC-1028**
Site: **Li Tungsten**

Lab Sample No: 845850
Lab Job No: I690

Date Sampled: 07/13/07
Date Received: 07/14/07

Matrix: SOLID
Level: LOW
% Moisture: 20.4

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	1.8	1.2	*	P
Lead	3.1	0.68	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Client ID: **5601-FSS-PC-1044**
Site: **Li Tungsten**

Lab Sample No: 845851
Lab Job No: I690

Date Sampled: 07/13/07
Date Received: 07/14/07

Matrix: SOLID
Level: LOW
% Moisture: 8.7

METALS ANALYSIS

Analyte	Analytical Result Units: mg/kg (Dry Weight)	Instrument Detection Limit	Qual	M
Arsenic	6.1	1.0	*	P
Lead	11.5	0.59	*	P

Qual Column - Data Reporting Qualifiers (See Sec 2 of Report)
M Column - Method Code (See Section 2 of Report)

Blank Results Summary

BLANKS

Lab Name: TEST_AMERICA

Lab Code: 12028 Lab Job No.: I690 Batch No.: 22932

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic	4.7	U	4.7	U	4.7	U	4.7	U	0.470	U	P
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium	3.0	U	3.0	U	3.0	U	3.0	U	0.300	U	P
Cobalt											NR
Copper											NR
Iron											NR
Lead	2.7	U	2.7	U	2.7	U	2.7	U	0.270	U	P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR

BLANKS

Lab Name: TEST_AMERICA

Lab Code: 12028 Lab Job No.: I690 Batch No.: 22932

Preparation Blank Matrix (soil/water):

Preparation Blank Concentration Units (ug/L or mg/kg):

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C	M
Aluminum											NR
Antimony											NR
Arsenic			4.7	U	4.7	U					P
Barium											NR
Beryllium											NR
Cadmium											NR
Calcium											NR
Chromium			3.0	U	3.0	U					P
Cobalt											NR
Copper											NR
Iron											NR
Lead			2.7	U	2.7	U					P
Magnesium											NR
Manganese											NR
Mercury											NR
Nickel											NR
Potassium											NR
Selenium											NR
Silver											NR
Sodium											NR
Thallium											NR
Vanadium											NR
Zinc											NR
Molybdenu											NR

Calibration Summary

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: TEST_AMERICA

Lab Code: 12028_ Lab Job No.: I690 Batch No.: 22932_

Initial Calibration Source: INORG VENT__

Continuing Calibration Source: INORG VENT__

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic	5000.0	4917.97	98.4	5000.0	4949.16	99.0	4929.70	98.6	P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium	5000.0	4923.19	98.5	5000.0	4966.39	99.3	4962.74	99.3	P
Cobalt									NR
Copper									NR
Iron									NR
Lead	10000.0	10018.80	100.2	10000.0	10110.35	101.1	10055.87	100.6	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: TEST_AMERICA

Lab Code: 12028 Lab Job No.: I690 Batch No.: 22932

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic				5000.0	4927.50	98.6	5029.71	100.6	P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium				5000.0	4977.91	99.6	5048.45	101.0	P
Cobalt									NR
Copper									NR
Iron									NR
Lead				10000.0	10092.12	100.9	10291.11	102.9	P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: TEST_AMERICA

Lab Code: 12028 Lab Job No.: I690 Batch No.: 22932

Initial Calibration Source: INORG VENT

Continuing Calibration Source: INORG VENT

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found	Continuing Calibration %R(1)	Continuing Calibration Found	Continuing Calibration %R(1)	M
Aluminum									NR
Antimony									NR
Arsenic				5000.0	4992.82	99.9			P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium				5000.0	5033.19	100.7			P
Cobalt									NR
Copper									NR
Iron									NR
Lead				10000.0	10219.09	102.2			P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

(1) Control Limits: Mercury 80-120; ICP Metals 90-110; Furnace AA Metals 80-120

ICP Interference Check Results Summary

ICP INTERFERENCE CHECK SAMPLE

Lab Name: TEST_AMERICA

Lab Code: 12028 Lab Job No.: I690 Batch No.: 22932

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	%R	Final Found Sol. A	Final Found Sol. AB	%R
Aluminum	500000	500000	502759	506169.7	101.2	507428	507836.4	101.6
Antimony		100		112.8	112.8		103.4	103.4
Arsenic		100		101.5	101.5		101.7	101.7
Barium		100		105.6	105.6		106.6	106.6
Beryllium		100		101.2	101.2		101.6	101.6
Cadmium		100		98.4	98.4		99.6	99.6
Calcium	500000	500000	494783	494782.0	99.0	497060	500091.9	100.0
Chromium		100		99.4	99.4		100.8	100.8
Cobalt		100		98.6	98.6		99.3	99.3
Copper		100		99.2	99.2		98.3	98.3
Iron	200000	200000	204200	204537.1	102.3	204100	205749.6	102.9
Lead		100		101.7	101.7		101.3	101.3
Magnesium	500000	500000	535133	535263.5	107.1	533118	537285.8	107.5
Manganese		100		98.2	98.2		97.8	97.8
Mercury								
Nickel		100		101.0	101.0		103.5	103.5
Potassium								
Selenium		100		97.9	97.9		96.1	96.1
Silver		100		102.0	102.0		103.1	103.1
Sodium								
Thallium		100		101.5	101.5		98.0	98.0
Vanadium		100		99.3	99.3		100.9	100.9
Zinc		100		98.7	98.7		99.0	99.0

ICP INTERFERENCE CHECK SAMPLE

Lab Name: TEST_AMERICA

Lab Code: 12028 Lab Job No.: I690 Batch No.: 22932

ICP ID Number: TRACE1 TJA61 ICS Source: INORG VENT

Concentration Units: ug/L

Analyte	True Sol. A	True Sol. AB	Initial Found Sol. A	Initial Found Sol. AB	Initial Found %R	Final Found Sol. A	Final Found Sol. AB	Final Found %R
Aluminum	500000	500000				506406	513161.6	102.6
Antimony		100					107.7	107.7
Arsenic		100					102.3	102.3
Barium		100					109.6	109.6
Beryllium		100					103.1	103.1
Cadmium		100					102.2	102.2
Calcium	500000	500000				502292	507657.0	101.5
Chromium		100					102.6	102.6
Cobalt		100					101.4	101.4
Copper		100					100.4	100.4
Iron	200000	200000				205422	207516.8	103.8
Lead		100					103.4	103.4
Magnesium	500000	500000				536777	540641.9	108.1
Manganese		100					97.4	97.4
Mercury								
Nickel		100					103.4	103.4
Potassium								
Selenium		100					92.6	92.6
Silver		100					102.8	102.8
Sodium								
Thallium		100					107.6	107.6
Vanadium		100					102.6	102.6
Zinc		100					100.9	100.9

Spike Sample Recovery Summary

LAB SAMPLE NO.

SPIKE SAMPLE RECOVERY

BSS071707

Lab Name: TEST_AMERICA

Lab Code: 12028 Lab Job No.: I690 Batch No.: 22932

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony									NR
Arsenic	75-125	191.2264		0.4700	U	200.00	95.6		P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium	75-125	19.5971		0.3000	U	20.00	98.0		P
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	50.1586		0.2700	U	50.00	100.3		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

Comments:

LAB SAMPLE NO.

SPIKE SAMPLE RECOVERY

845863MS

Lab Name: TEST_AMERICA

Lab Code: 12028 Lab Job No.: I690 Batch No.: 22932

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 95.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Aluminum									
Antimony									NR
Arsenic	75-125	196.0495		1.3608		209.64	92.9		P
Barium									NR
Beryllium									NR
Cadmium									NR
Calcium									NR
Chromium		985.2073		1122.5417		20.96	-655.2		P
Cobalt									NR
Copper									NR
Iron									NR
Lead	75-125	55.3662		5.0239		52.41	96.1		P
Magnesium									NR
Manganese									NR
Mercury									NR
Nickel									NR
Potassium									NR
Selenium									NR
Silver									NR
Sodium									NR
Thallium									NR
Vanadium									NR
Zinc									NR
Molybdenu									NR

Comments:

Sample and MS Duplicate Results Summary

DUPLICATES

LAB SAMPLE NO.

LCSSD055-D

Lab Name: TEST_AMERICA

Lab Code: 12028 Lab Job No.: I690 Batch No.: 22932

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 100.0 % Solids for Duplicate: 100.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic		85.9858		83.0342		3.5		P
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium		92.2370		89.4408		3.1		P
Cobalt								NR
Copper								NR
Iron								NR
Lead		88.6186		87.5206		1.2		P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Molybdenu								NR

DUPLICATES

LAB SAMPLE NO.

845863D

Lab Name: TEST_AMERICA

Lab Code: 12028 Lab Job No.: I690 Batch No.: 22932

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 95.4 % Solids for Duplicate: 95.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum								NR
Antimony								NR
Arsenic	0.5	1.3608		1.9719		36.7	*	P
Barium								NR
Beryllium								NR
Cadmium								NR
Calcium								NR
Chromium		1122.5417		992.9683		12.2		P
Cobalt								NR
Copper								NR
Iron								NR
Lead		5.0239		4.0679		21.0	*	P
Magnesium								NR
Manganese								NR
Mercury								NR
Nickel								NR
Potassium								NR
Selenium								NR
Silver								NR
Sodium								NR
Thallium								NR
Vanadium								NR
Zinc								NR
Molybdenu								NR

Laboratory Control Samples Results Summary

LABORATORY CONTROL SAMPLE

Lab Name: TEST_AMERICA

Lab Code: 12028 Lab Job No.: I690 Batch No.: 22932

Solid LCS Source: ERA D055

Aqueous LCS Source:

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Aluminum									
Antimony									
Arsenic				88.8	86.0		71.8	106.0	96.8
Barium									
Beryllium									
Cadmium									
Calcium									
Chromium				97.9	92.2		77.2	118.0	94.2
Cobalt									
Copper									
Iron									
Lead				88.9	88.6		72.7	105.0	99.7
Magnesium									
Manganese									
Mercury									
Nickel									
Potassium									
Selenium									
Silver									
Sodium									
Thallium									
Vanadium									
Zinc									
Molybdenu									

Serial Dilution Summary

LAB SAMPLE NO.

845863L

ICP SERIAL DILUTION

Lab Name: TEST_AMERICA

Lab Code: 12028 Lab Job No.: I690 Batch No.: 22932

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum							NR
Antimony							NR
Arsenic	6.49		24.17	B	272.4		P
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium	5354.52		5349.24		0.1		P
Cobalt							NR
Copper							NR
Iron							NR
Lead	23.96		29.20		21.9		P
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR

Analysis Run Log

ANALYSIS RUN LOG

Lab Name: TEST_AMERICA_____ Contract: _____

Lab Code: 12028_ Case No.: _____ SAS No.: _____ SDG No.:22932_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 07/17/07 End Date: 07/17/07

Lab Sample No.	D/F	Time	% R	Analytes																								
				ALB	SBS	ABA	BBE	CDA	CAR	CRO	CUE	FBG	PBN	MGI	MNG	HGE	NIA	KGL	SEN	AGM	NAO	TL	VN	ZN	MO
1CAL-BLK	1.00	0908		X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T1CAL1__	1.00	0913		X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T1CAL2__	1.00	0919		X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
T1CAL3__	1.00	0924		X	X	X	X	X	X	X	X	X	X	X	X	X	_	X	_	X	X	_	X	X	X	X
ZZZZZZ__	1.00	0930																								
ICV/CCV_	1.00	0935				X					X				X											
ICB/CCB_	1.00	0941				X					X				X											
ICSA____	1.00	0946				X					X				X											
ICSAB___	1.00	0952				X					X				X											
ZZZZZZ__	1.00	0957																								
ZZZZZZ__	1.00	1003																								
ZZZZZZ__	1.00	1008																								
ZZZZZZ__	5.00	1014																								
ZZZZZZ__	5.00	1019																								
ZZZZZZ__	2.00	1025																								
ZZZZZZ__	1.00	1030																								
ZZZZZZ__	1.00	1036																								
CCV_____	1.00	1042				X					X				X											
CCB_____	1.00	1047				X					X				X											
ZZZZZZ__	1.00	1053																								
ZZZZZZ__	1.00	1058																								
ZZZZZZ__	1.00	1104																								
ZZZZZZ__	1.00	1109																								
ZZZZZZ__	1.00	1115																								
ZZZZZZ__	1.00	1120																								
ZZZZZZ__	1.00	1126																								
ZZZZZZ__	1.00	1131																								
ZZZZZZ__	1.00	1137																								
ZZZZZZ__	1.00	1142																								
CCV_____	1.00	1148				X					X				X											
CCB_____	1.00	1153				X					X				X											
ZZZZZZ__	1.00	1159																								

ANALYSIS RUN LOG

Lab Name: TEST_AMERICA_____ Contract: _____

Lab Code: 12028_ Case No.: _____ SAS No.: _____ SDG No.:22932_

Instrument ID Number: TRACE1 TJA61_ Method: P_

Start Date: 07/17/07 End Date: 07/17/07

Lab Sample No.	D/F	Time	% R	Analytes																								
				ALB	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	MO
ICSA	1.00	1204				X					X				X												
ICSAB	1.00	1210				X					X				X												
CCV	1.00	1215				X					X				X												
CCB	1.00	1221				X					X				X												
SS071707	1.00	1249				X					X				X												
BS071707	1.00	1255				X					X				X												
LCSSD055	2.00	1300				X					X				X												
SSD055-D	2.00	1306				X					X				X												
845863D	2.00	1311				X					X				X												
845863	2.00	1317									X																
845863L	2.00	1322				X					X				X												
845863MS	2.00	1328				X					X				X												
ZZZZZZ	2.00	1333																									
845864	2.00	1339									X																
CCV	1.00	1344				X					X				X												
CCB	1.00	1350				X					X				X												
845846	2.00	1355				X									X												
845847	2.00	1401				X									X												
845848	2.00	1406				X									X												
845849	2.00	1412				X									X												
845850	2.00	1422				X									X												
845851	2.00	1427				X									X												
ICSA	1.00	1433				X					X				X												
ICSAB	1.00	1439				X					X				X												
CCV	1.00	1444				X					X				X												
CCB	1.00	1450				X					X				X												

This is the Last Page of the Document