B Laboratory Results

ANALYTICAL REPORT

Job Number: 580-19393-1

Job Description: Contact & Sonoma Mine Sites

For:
Ecology and Environment, Inc.
333 SW 5th Avenue
Portland, OR 97204

Attention: Jim Petersen

Approved for release.
Terri L Torres
Project Manager II
6/4/2010 5:28 PM

Terri L Torres
Project Manager II
terri.torres@testamericainc.com
06/04/2010

cc: Accts Payable Accounts Payable
Rebecca Jarvis

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This report shall not be reproduced except in full, without prior express written approval by the laboratory. The results relate only to the item(s) tested and the sample(s) as received by the laboratory.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted in the case narrative.

TestAmerica Laboratories, Inc.
TestAmerica Seattle 5755 8th Street East, Tacoma, WA 98424
Tel (253) 922-2310 Fax (253) 922-5047 www.testamericainc.com

Table of Contents

Cover Title Page 1

Data Summaries 4

- Report Narrative 4
- Sample Summary 6
- Method Summary 7
- Sample Datasheets 8
- QC Data Summary 50
- Data Qualifiers 75
- QC Association Summary 76

Inorganic Sample Data 83

- Metals Data 83
  - Met Cover Page 84
  - Met Sample Data 85
  - Met QC Data 106
    - Met ICV/CCV 106
    - Met CRQL 116
    - Met Blanks 117
    - Met ICSA/ICSAB 131
    - Met MS/MSD/PDS 139
    - Met Duplicates 147
    - Met LCS/LCSD 150
    - Met Serial Dilution 168
  - Met MDL 170
  - Met Linear Ranges 172
  - Met Preparation Log 174
  - Met Analysis Run Log 178

Table of Contents

Met ICP/MS Int Stds 192

Met Raw Data 204

Met Prep Data 560

General Chemistry Data 567

Gen Chem Cover Page 568

Gen Chem MDL 569

Gen Chem Analysis Run Log 570

Gen Chem Prep Data 572

Subcontracted Data 574

Shipping and Receiving Documents 753

Client Chain of Custody 754

Sample Receipt Checklist 756

CASE NARRATIVE

Client: Ecology and Environment, Inc.
Project: Contact & Sonoma Mine Sites
Report Number: 580-19393-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 05/19/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.4 C.

For sample 05HMSB one 4oz jar received cracked. Sample does not appear to be compromised. The entire contents were placed in a larger jar.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

TOTAL METALS

Samples 580-19393-1 through 580-19393-21 were analyzed for total metals in accordance with EPA SW-846 Method 6020. The samples were prepared on 05/26/2010 and 05/27/2010 and analyzed on 05/27/2010 and 05/28/2010.

Recovery values for Chromium, Iron, Manganese, Nickel, Aluminum and Magnesium in the matrix spike and/or matrix spike duplicate of sample 580-19393-1 were outside advisory QC limits due to high concentration of the analyte in the original sample. The analyte present in the original sample is four times greater than the matrix spike concentration; therefore, control limits are not applicable.

The recovery value for Barium in the matrix spike of sample 580-19393-1 was outside advisory QC limits. Matrix interference is indicated based on acceptable LCS/LCSD recovery.

Recovery values for Chromium, Iron, Manganese, Nickel, Aluminum and Magnesium in the matrix spike and/or matrix spike duplicate of sample 580-19393-18 were outside advisory QC limits due to high concentration of the analyte in the original sample. The analyte present in the original sample is four times greater than the matrix spike concentration; therefore, control limits are not applicable.

The ICP-MS ICSA/AB standard contains trace impurities derived from the manufacturing process, which may cause these standards to fail method QC criteria. Regrettably corrective action can not be performed for any outliers other than to note deficiencies in the laboratory's QC report section.

No other difficulties were encountered during the total metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples 580-19393-1 through 580-19393-21 were analyzed for total mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared on 05/24/2010 and 05/27/2010 and analyzed on 05/26/2010 and 05/27/2010. The following sample(s) was received with greater than 50% of holding time expired: 580-19393-2, 580-19393-3, 580-19393-8, 580-19393-9, 580-19393-10580-19393-11, 580-19393-12, 580-19393-14 and 580-19393-21. As such, the laboratory had insufficient time remaining to perform the analysis within holding time.

Samples 580-19393-2, 580-19393-3, 580-19393-4, 580-19393-6 through 580-19393-18 and 580-19393-21 required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Recovery values for Mercury in the matrix spike/matrix spike duplicate of sample 580-19393-1 were outside advisory QC limits. Matrix interference is indicated based on acceptable LCS/LCSD recovery.

Recovery values for Chromium Mercury in the matrix spike and/or matrix spike duplicate of sample 580-19393-17 were outside advisory QC limits due to high concentration of the analyte in the original sample. The analyte present in the original sample is four times greater than the matrix spike concentration; therefore, control limits are not applicable.

No other difficulties were encountered during the total mercury analyses.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples 580-19393-1 through 580-19393-21 were analyzed for percent solids in accordance with EPA Method 160.3 Modified. The samples were analyzed on 05/25/2010.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

SUBCONTRACT

TestAmerica Irvine analyzed samples 580-19393-2, 580-19393-4, 580-19393-6, 580-19393-9, 580-19393-11, 580-19393-14, 580-19393-16, 580-19393-18, 580-19393-20 and 580-19393-21 for CA WET Test (STLC) Metals. The analytical results and raw data are located in the subcontract section of this data package.

SAMPLE SUMMARY

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-19393-1	01CMMW	Solid	05/02/2010 1040	05/19/2010 0907
580-19393-2	02CMSB	Solid	04/26/2010 1226	05/19/2010 0907
580-19393-3	03CMMW	Solid	04/27/2010 0830	05/19/2010 0907
580-19393-4	04CMSB	Solid	05/02/2010 1325	05/19/2010 0907
580-19393-5	05CMMW	Solid	05/03/2010 0930	05/19/2010 0907
580-19393-6	06CMSB	Solid	05/03/2010 1300	05/19/2010 0907
580-19393-7	07CMMW	Solid	05/02/2010 1614	05/19/2010 0907
580-19393-8	01SMMW	Solid	04/23/2010 1458	05/19/2010 0907
580-19393-9	02SMSB	Solid	04/24/2010 1130	05/19/2010 0907
580-19393-10	04SMMW	Solid	04/25/2010 0753	05/19/2010 0907
580-19393-11	05SMSB-B	Solid	04/26/2010 0910	05/19/2010 0907
580-19393-12	06SMMW- B	Solid	04/26/2010 0745	05/19/2010 0907
580-19393-13	07SMMW	Solid	05/02/2010 0830	05/19/2010 0907
580-19393-14	08SMSB	Solid	04/25/2010 1517	05/19/2010 0907
580-19393-15	01HMMW	Solid	05/08/2010 1140	05/19/2010 0907
580-19393-16	02HMSB	Solid	05/08/2010 0838	05/19/2010 0907
580-19393-17	04HMMW	Solid	05/08/2010 1420	05/19/2010 0907
580-19393-18	05HMSB	Solid	05/11/2010 1315	05/19/2010 0907
580-19393-19	07HMMWB	Solid	05/08/2010 1556	05/19/2010 0907
580-19393-20	08HMSB	Solid	05/07/2010 1540	05/19/2010 0907
580-19393-21	09SMMW	Solid	04/25/2010 1416	05/19/2010 0907

METHOD SUMMARY

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Metals (ICP/MS)	TAL TAC	SW846 6020	
Preparation, Metals	TAL TAC		SW846 3050B
Mercury (CVAA)	TAL TAC	SW846 7471A	
Preparation, Mercury	TAL TAC		SW846 7471A
Percent Moisture	TAL TAC	EPA Moisture	
General Sub Contract Method	TAL IRV	Subcontract	

Lab References:

TAL IRV = TestAmerica Irvine

TAL TAC = TestAmerica Tacoma

Method References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **01CMMW**

Lab Sample ID: 580-19393-1 Date Sampled: 05/02/2010 1040
Client Matrix: Solid % Moisture: 12.5 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 027SMPL.D
Dilution: 10 Initial Weight/Volume: 1.1941 g
Date Analyzed: 05/27/2010 1536 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		10	^	0.19
Antimony		0.73	^	0.19
Barium		330	^	0.19
Cadmium		ND		0.19
Chromium		210	^	0.19
Lead		12		0.19
Cobalt		25	^	0.19
Iron		41000		19
Manganese		680	^	0.48
Silver		ND		0.19
Thallium		ND		0.38
Vanadium		72		0.19
Aluminum		24000		29
Magnesium		26000		96
Potassium		1000		96
Sodium		ND		96
Calcium		12000		96

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 026SMPL.D
Dilution: 10 Initial Weight/Volume: 1.1941 g
Date Analyzed: 05/28/2010 1317 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.82		0.19
Copper		44	^	0.19
Nickel		250	^	0.19
Selenium		0.75	^	0.48
Zinc		70	^	0.67

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64410 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64215 Lab File ID: 64215-HG.PRN
Dilution: 1.0 Initial Weight/Volume: 0.6130 g
Date Analyzed: 05/26/2010 0950 Final Weight/Volume: 50 mL
Date Prepared: 05/24/2010 1358

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.071		0.019

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **02CMSB**

Lab Sample ID: 580-19393-2 Date Sampled: 04/26/2010 1226
Client Matrix: Solid % Moisture: 7.6 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 037SMPL.D
Dilution: 10 Initial Weight/Volume: 1.0115 g
Date Analyzed: 05/27/2010 1637 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		8.4	^	0.21
Antimony		0.42	^	0.21
Barium		140	^	0.21
Cadmium		ND		0.21
Chromium		200	^	0.21
Lead		8.8		0.21
Cobalt		27	^	0.21
Iron		34000		21
Manganese		480	^	0.54
Silver		ND		0.21
Thallium		ND		0.43
Vanadium		33		0.21
Aluminum		7700		32
Magnesium		34000		110
Potassium		1300		110
Sodium		ND		110
Calcium		3800		110

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 036SMPL.D
Dilution: 10 Initial Weight/Volume: 1.0115 g
Date Analyzed: 05/28/2010 1418 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.63		0.21
Copper		28	^	0.21
Nickel		380	^	0.21
Selenium		ND		0.54
Zinc		59	^	0.75

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64410 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64215 Lab File ID: 64215-HG.PRN
Dilution: 1000 Initial Weight/Volume: 0.5053 g
Date Analyzed: 05/26/2010 1016 Final Weight/Volume: 50 mL
Date Prepared: 05/24/2010 1358

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		300	H	21

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **03CMMW**

Lab Sample ID: 580-19393-3 Date Sampled: 04/27/2010 0830
Client Matrix: Solid % Moisture: 19.5 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 038SMPL.D
Dilution: 10 Initial Weight/Volume: 1.1636 g
Date Analyzed: 05/27/2010 1644 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		6.9	^	0.21
Antimony		0.41	^	0.21
Barium		220	^	0.21
Cadmium		ND		0.21
Chromium		420	^	0.21
Lead		9.1		0.21
Cobalt		36	^	0.21
Iron		41000		21
Manganese		680	^	0.53
Silver		ND		0.21
Thallium		ND		0.43
Vanadium		60		0.21
Aluminum		23000		32
Magnesium		51000		110
Potassium		990		110
Sodium		ND		110
Calcium		13000		110

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 037SMPL.D
Dilution: 10 Initial Weight/Volume: 1.1636 g
Date Analyzed: 05/28/2010 1424 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.67		0.21
Copper		39	^	0.21
Nickel		530	^	0.21
Selenium		0.93		0.53
Zinc		69	^	0.75

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64410 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64215 Lab File ID: 64215-HG.PRN
Dilution: 10 Initial Weight/Volume: 0.6531 g
Date Analyzed: 05/26/2010 1146 Final Weight/Volume: 50 mL
Date Prepared: 05/24/2010 1358

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		9.2	H	0.19

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **04CMSB**

Lab Sample ID: 580-19393-4 Date Sampled: 05/02/2010 1325
Client Matrix: Solid % Moisture: 9.6 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 039SMPL.D
Dilution: 10 Initial Weight/Volume: 1.2950 g
Date Analyzed: 05/27/2010 1651 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		5.6	^	0.17
Antimony		0.38	^	0.17
Barium		220	^	0.17
Cadmium		0.19		0.17
Chromium		230	^	0.17
Lead		6.8		0.17
Cobalt		39	^	0.17
Iron		44000		17
Manganese		1700	^	0.43
Silver		ND		0.17
Thallium		ND		0.34
Vanadium		57		0.17
Aluminum		8400		26
Magnesium		41000		85
Potassium		650		85
Sodium		ND		85
Calcium		5400		85

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 038SMPL.D
Dilution: 10 Initial Weight/Volume: 1.2950 g
Date Analyzed: 05/28/2010 1430 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.50		0.17
Copper		64	^	0.17
Nickel		470	^	0.17
Selenium		0.54		0.43
Zinc		67	^	0.60

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64410 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64215 Lab File ID: 64215-HG.PRN
Dilution: 10 Initial Weight/Volume: 0.6270 g
Date Analyzed: 05/26/2010 1150 Final Weight/Volume: 50 mL
Date Prepared: 05/24/2010 1358

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		3.6		0.18

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **05CMMW**

Lab Sample ID: 580-19393-5 Date Sampled: 05/03/2010 0930
Client Matrix: Solid % Moisture: 22.9 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 040SMPL.D
Dilution: 10 Initial Weight/Volume: 1.2782 g
Date Analyzed: 05/27/2010 1658 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		11	^	0.20
Antimony		0.60	^	0.20
Barium		200	^	0.20
Cadmium		0.22		0.20
Chromium		310	^	0.20
Lead		11		0.20
Cobalt		39	^	0.20
Iron		46000		20
Manganese		680	^	0.51
Silver		ND		0.20
Thallium		ND		0.41
Vanadium		74		0.20
Aluminum		29000		30
Magnesium		51000		100
Potassium		1100		100
Sodium		140		100
Calcium		7300		100

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 039SMPL.D
Dilution: 10 Initial Weight/Volume: 1.2782 g
Date Analyzed: 05/28/2010 1436 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.67		0.20
Copper		43	^	0.20
Nickel		470	^	0.20
Selenium		ND		0.51
Zinc		74	^	0.71

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64410 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64215 Lab File ID: 64215-HG.PRN
Dilution: 1.0 Initial Weight/Volume: 0.5689 g
Date Analyzed: 05/26/2010 1222 Final Weight/Volume: 50 mL
Date Prepared: 05/24/2010 1358

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.13		0.023

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **06CMSB**

Lab Sample ID: 580-19393-6 Date Sampled: 05/03/2010 1300
Client Matrix: Solid % Moisture: 22.6 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64447		Lab File ID:	041SMPL.D
Dilution:	10			Initial Weight/Volume:	1.4633 g
Date Analyzed:	05/27/2010 1705			Final Weight/Volume:	50 mL
Date Prepared:	05/26/2010 1603				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		5.6	^	0.18
Antimony		0.36	^	0.18
Barium		180	^	0.18
Cadmium		0.22		0.18
Chromium		130	^	0.18
Lead		9.2		0.18
Cobalt		22	^	0.18
Iron		30000		18
Manganese		540	^	0.44
Silver		ND		0.18
Thallium		ND		0.35
Vanadium		45		0.18
Aluminum		16000		26
Magnesium		21000		88
Potassium		1100		88
Sodium		ND		88
Calcium		3000		88

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64447		Lab File ID:	040SMPL.D
Dilution:	10			Initial Weight/Volume:	1.4633 g
Date Analyzed:	05/28/2010 1442			Final Weight/Volume:	50 mL
Date Prepared:	05/26/2010 1603				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.54		0.18
Copper		29	^	0.18
Nickel		240	^	0.18
Selenium		0.53		0.44
Zinc		87	^	0.62

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64410		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64215		Lab File ID:	64215-HG.PRN
Dilution:	10			Initial Weight/Volume:	0.7233 g
Date Analyzed:	05/26/2010 1159			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2010 1358				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		2.8		0.18

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **07CMMW**

Lab Sample ID: 580-19393-7 Date Sampled: 05/02/2010 1614
Client Matrix: Solid % Moisture: 7.2 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 042SMPL.D
Dilution: 10 Initial Weight/Volume: 1.1898 g
Date Analyzed: 05/27/2010 1712 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		5.7	^	0.18
Antimony		0.33	^	0.18
Barium		290	^	0.18
Cadmium		0.25		0.18
Chromium		150	^	0.18
Lead		10		0.18
Cobalt		27	^	0.18
Iron		33000		18
Manganese		560	^	0.45
Silver		ND		0.18
Thallium		ND		0.36
Vanadium		36		0.18
Aluminum		13000		27
Magnesium		33000		91
Potassium		1600		91
Sodium		ND		91
Calcium		5000		91

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 041SMPL.D
Dilution: 10 Initial Weight/Volume: 1.1898 g
Date Analyzed: 05/28/2010 1448 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.58		0.18
Copper		38	^	0.18
Nickel		360	^	0.18
Selenium		0.81		0.45
Zinc		67	^	0.63

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64410 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64215 Lab File ID: 64215-HG.PRN
Dilution: 1000 Initial Weight/Volume: 0.6075 g
Date Analyzed: 05/26/2010 1038 Final Weight/Volume: 50 mL
Date Prepared: 05/24/2010 1358

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		45		18

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **01SMMW**

Lab Sample ID: 580-19393-8 Date Sampled: 04/23/2010 1458
Client Matrix: Solid % Moisture: 16.6 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 043SMPL.D
Dilution: 10 Initial Weight/Volume: 1.3451 g
Date Analyzed: 05/27/2010 1719 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		12	^	0.18
Antimony		0.74	^	0.18
Barium		260	^	0.18
Cadmium		0.21		0.18
Chromium		200	^	0.18
Lead		12		0.18
Cobalt		34	^	0.18
Iron		47000		18
Manganese		920	^	0.45
Silver		ND		0.18
Thallium		ND		0.36
Vanadium		60		0.18
Aluminum		23000		27
Magnesium		25000		89
Potassium		1100		89
Sodium		ND		89
Calcium		5300		89

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 042SMPL.D
Dilution: 10 Initial Weight/Volume: 1.3451 g
Date Analyzed: 05/28/2010 1455 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.69		0.18
Copper		47	^	0.18
Nickel		430	^	0.18
Selenium		0.77		0.45
Zinc		75	^	0.62

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64410 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64215 Lab File ID: 64215-HG.PRN
Dilution: 1000 Initial Weight/Volume: 0.7030 g
Date Analyzed: 05/26/2010 1043 Final Weight/Volume: 50 mL
Date Prepared: 05/24/2010 1358

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		72	H	17

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **02SMSB**

Lab Sample ID: 580-19393-9 Date Sampled: 04/24/2010 1130
Client Matrix: Solid % Moisture: 18.8 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 044SMPL.D
Dilution: 10 Initial Weight/Volume: 1.2294 g
Date Analyzed: 05/27/2010 1726 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		9.9	^	0.20
Antimony		0.69	^	0.20
Barium		120	^	0.20
Cadmium		ND		0.20
Chromium		210	^	0.20
Lead		10		0.20
Cobalt		46	^	0.20
Iron		44000		20
Manganese		600	^	0.50
Silver		ND		0.20
Thallium		ND		0.40
Vanadium		45		0.20
Aluminum		14000		30
Magnesium		28000		100
Potassium		1100		100
Sodium		ND		100
Calcium		2800		100

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 043SMPL.D
Dilution: 10 Initial Weight/Volume: 1.2294 g
Date Analyzed: 05/28/2010 1501 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.51		0.20
Copper		34	^	0.20
Nickel		770	^	0.20
Selenium		ND		0.50
Zinc		63	^	0.70

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64410 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64215 Lab File ID: 64215-HG.PRN
Dilution: 1000 Initial Weight/Volume: 0.5318 g
Date Analyzed: 05/26/2010 1047 Final Weight/Volume: 50 mL
Date Prepared: 05/24/2010 1358

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		380	H	23

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **04SMMW**

Lab Sample ID: 580-19393-10 Date Sampled: 04/25/2010 0753
Client Matrix: Solid % Moisture: 24.5 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 045SMPL.D
Dilution: 10 Initial Weight/Volume: 1.2395 g
Date Analyzed: 05/27/2010 1733 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		6.7	^	0.21
Antimony		0.40	^	0.21
Barium		180	^	0.21
Cadmium		ND		0.21
Chromium		370	^	0.21
Lead		9.6		0.21
Cobalt		57	^	0.21
Iron		52000		21
Manganese		820	^	0.53
Silver		ND		0.21
Thallium		ND		0.43
Vanadium		56		0.21
Aluminum		19000		32
Magnesium		48000		110
Potassium		830		110
Sodium		ND		110
Calcium		1700		110

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 044SMPL.D
Dilution: 10 Initial Weight/Volume: 1.2395 g
Date Analyzed: 05/28/2010 1507 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.50		0.21
Copper		32	^	0.21
Nickel		1000	^	0.21
Selenium		0.84		0.53
Zinc		65	^	0.75

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64410 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64215 Lab File ID: 64215-HG.PRN
Dilution: 1000 Initial Weight/Volume: 0.5879 g
Date Analyzed: 05/26/2010 1051 Final Weight/Volume: 50 mL
Date Prepared: 05/24/2010 1358

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		240	H	23

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **05SMSB-B**

Lab Sample ID: 580-19393-11 Date Sampled: 04/26/2010 0910
Client Matrix: Solid % Moisture: 26.5 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 046SMPL.D
Dilution: 10 Initial Weight/Volume: 1.0635 g
Date Analyzed: 05/27/2010 1740 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		12	^	0.26
Antimony		0.98	^	0.26
Barium		290	^	0.26
Cadmium		ND		0.26
Chromium		490	^	0.26
Lead		24		0.26
Cobalt		35	^	0.26
Iron		58000		26
Manganese		770	^	0.64
Silver		ND		0.26
Thallium		ND		0.51
Vanadium		59		0.26
Aluminum		19000		38
Magnesium		12000		130
Potassium		1300		130
Sodium		ND		130
Calcium		23000		130

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 045SMPL.D
Dilution: 10 Initial Weight/Volume: 1.0635 g
Date Analyzed: 05/28/2010 1513 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.55		0.26
Copper		54	^	0.26
Nickel		320	^	0.26
Selenium		1.9		0.64
Zinc		88	^	0.90

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64410 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64215 Lab File ID: 64215-HG.PRN
Dilution: 10000 Initial Weight/Volume: 0.7940 g
Date Analyzed: 05/26/2010 1204 Final Weight/Volume: 50 mL
Date Prepared: 05/24/2010 1358

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		950	H	170

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **06SMMW- B**

Lab Sample ID: 580-19393-12 Date Sampled: 04/26/2010 0745
Client Matrix: Solid % Moisture: 20.0 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 049SMPL.D
Dilution: 10 Initial Weight/Volume: 1.3061 g
Date Analyzed: 05/27/2010 1802 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		11	^	0.19
Antimony		0.78	^	0.19
Barium		140	^	0.19
Cadmium		0.20		0.19
Chromium		130	^	0.19
Lead		11		0.19
Cobalt		36	^	0.19
Iron		46000		19
Manganese		730	^	0.48
Silver		ND		0.19
Thallium		ND		0.38
Vanadium		46		0.19
Aluminum		13000		29
Magnesium		15000		96
Potassium		1100		96
Sodium		ND		96
Calcium		6100		96

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 048SMPL.D
Dilution: 10 Initial Weight/Volume: 1.3061 g
Date Analyzed: 05/28/2010 1531 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.62		0.19
Copper		49	^	0.19
Nickel		480	^	0.19
Selenium		0.60		0.48
Zinc		76	^	0.67

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64410 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64215 Lab File ID: 64215-HG.PRN
Dilution: 10 Initial Weight/Volume: 0.7670 g
Date Analyzed: 05/26/2010 1208 Final Weight/Volume: 50 mL
Date Prepared: 05/24/2010 1358

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		4.4	H	0.16

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **07SMMW**

Lab Sample ID: 580-19393-13 Date Sampled: 05/02/2010 0830
Client Matrix: Solid % Moisture: 12.6 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64447		Lab File ID:	050SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1878 g
Date Analyzed:	05/27/2010 1809			Final Weight/Volume:	50 mL
Date Prepared:	05/26/2010 1603				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		11	^	0.19
Antimony		0.81	^	0.19
Barium		140	^	0.19
Cadmium		0.19		0.19
Chromium		71	^	0.19
Lead		11		0.19
Cobalt		28	^	0.19
Iron		44000		19
Manganese		650	^	0.48
Silver		ND		0.19
Thallium		ND		0.39
Vanadium		48		0.19
Aluminum		4300		29
Magnesium		16000		96
Potassium		950		96
Sodium		ND		96
Calcium		17000		96

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64447		Lab File ID:	049SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1878 g
Date Analyzed:	05/28/2010 1537			Final Weight/Volume:	50 mL
Date Prepared:	05/26/2010 1603				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.56		0.19
Copper		46	^	0.19
Nickel		460	^	0.19
Selenium		0.63		0.48
Zinc		80	^	0.67

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64410		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64215		Lab File ID:	64215-HG.PRN
Dilution:	10			Initial Weight/Volume:	0.6481 g
Date Analyzed:	05/26/2010 1213			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2010 1358				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		2.8		0.18

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **08SMSB**

Lab Sample ID: 580-19393-14 Date Sampled: 04/25/2010 1517
Client Matrix: Solid % Moisture: 24.0 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 051SMPL.D
Dilution: 10 Initial Weight/Volume: 1.5819 g
Date Analyzed: 05/27/2010 1816 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		13	^	0.17
Antimony		1.0	^	0.17
Barium		360	^	0.17
Cadmium		0.22		0.17
Chromium		50	^	0.17
Lead		16		0.17
Cobalt		47	^	0.17
Iron		43000		17
Manganese		2100	^	0.42
Silver		ND		0.17
Thallium		ND		0.33
Vanadium		31		0.17
Aluminum		8000		25
Magnesium		9400		83
Potassium		1200		83
Sodium		ND		83
Calcium		3300		83

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64447 Lab File ID: 050SMPL.D
Dilution: 10 Initial Weight/Volume: 1.5819 g
Date Analyzed: 05/28/2010 1543 Final Weight/Volume: 50 mL
Date Prepared: 05/26/2010 1603

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.69		0.17
Copper		42	^	0.17
Nickel		530	^	0.17
Selenium		0.65		0.42
Zinc		76	^	0.58

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64410 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64215 Lab File ID: 64215-HG.PRN
Dilution: 10 Initial Weight/Volume: 0.5989 g
Date Analyzed: 05/26/2010 1217 Final Weight/Volume: 50 mL
Date Prepared: 05/24/2010 1358

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		4.1	H	0.22

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **01HMMW**

Lab Sample ID: 580-19393-15 Date Sampled: 05/08/2010 1140
Client Matrix: Solid % Moisture: 27.0 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64447		Lab File ID:	052SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1949 g
Date Analyzed:	05/27/2010 1823			Final Weight/Volume:	50 mL
Date Prepared:	05/26/2010 1603				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		3.3	^	0.23
Antimony		0.27	^	0.23
Barium		69	^	0.23
Cadmium		ND		0.23
Chromium		310	^	0.23
Lead		4.7		0.23
Cobalt		100	^	0.23
Iron		57000		23
Manganese		830	^	0.57
Silver		ND		0.23
Thallium		ND		0.46
Vanadium		26		0.23
Aluminum		8100		34
Magnesium		94000		110
Potassium		610		110
Sodium		ND		110
Calcium		2900		110

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64447		Lab File ID:	051SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1949 g
Date Analyzed:	05/28/2010 1549			Final Weight/Volume:	50 mL
Date Prepared:	05/26/2010 1603				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.49		0.23
Copper		22	^	0.23
Nickel		2000	^	0.23
Selenium		0.57		0.57
Zinc		63	^	0.80

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64410		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64215		Lab File ID:	64215-HG.PRN
Dilution:	1000			Initial Weight/Volume:	0.5268 g
Date Analyzed:	05/26/2010 1123			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2010 1358				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		91		26

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **02HMSB**

Lab Sample ID: 580-19393-16 Date Sampled: 05/08/2010 0838
Client Matrix: Solid % Moisture: 26.5 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64447		Lab File ID:	053SMPL.D
Dilution:	10			Initial Weight/Volume:	1.3388 g
Date Analyzed:	05/27/2010 1830			Final Weight/Volume:	50 mL
Date Prepared:	05/26/2010 1603				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		3.5	^	0.20
Antimony		4.4	^	0.20
Barium		130	^	0.20
Cadmium		ND		0.20
Chromium		320	^	0.20
Lead		6.8		0.20
Cobalt		94	^	0.20
Iron		65000		20
Manganese		580	^	0.51
Silver		ND		0.20
Thallium		0.55		0.41
Vanadium		22		0.20
Aluminum		7600		30
Magnesium		50000		100
Potassium		550		100
Sodium		ND		100
Calcium		3200		100

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64447		Lab File ID:	052SMPL.D
Dilution:	10			Initial Weight/Volume:	1.3388 g
Date Analyzed:	05/28/2010 1555			Final Weight/Volume:	50 mL
Date Prepared:	05/26/2010 1603				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.40		0.20
Copper		24	^	0.20
Nickel		1500	^	0.20
Selenium		ND		0.51
Zinc		59	^	0.71

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64410		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64215		Lab File ID:	64215-HG.PRN
Dilution:	1000			Initial Weight/Volume:	0.8501 g
Date Analyzed:	05/26/2010 1127			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2010 1358				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		570		16

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **04HMMW**

Lab Sample ID: 580-19393-17 Date Sampled: 05/08/2010 1420
Client Matrix: Solid % Moisture: 9.1 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64447		Lab File ID:	054SMPL.D
Dilution:	10			Initial Weight/Volume:	1.5847 g
Date Analyzed:	05/27/2010 1837			Final Weight/Volume:	50 mL
Date Prepared:	05/26/2010 1603				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		8.1	^	0.14
Antimony		0.57	^	0.14
Barium		230	^	0.14
Cadmium		0.14		0.14
Chromium		150	^	0.14
Lead		9.4		0.14
Cobalt		22	^	0.14
Iron		34000		14
Manganese		770	^	0.35
Silver		ND		0.14
Thallium		ND		0.28
Vanadium		53		0.14
Aluminum		17000		21
Magnesium		24000		69
Potassium		970		69
Sodium		ND		69
Calcium		7200		69

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64447		Lab File ID:	053SMPL.D
Dilution:	10			Initial Weight/Volume:	1.5847 g
Date Analyzed:	05/28/2010 1601			Final Weight/Volume:	50 mL
Date Prepared:	05/26/2010 1603				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.35		0.14
Copper		50	^	0.14
Nickel		170	^	0.14
Selenium		ND		0.35
Zinc		64	^	0.49

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64554		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64500		Lab File ID:	64500-HG.PRN
Dilution:	10			Initial Weight/Volume:	0.8209 g
Date Analyzed:	05/27/2010 1323			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1021				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		3.1		0.13

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **05HMSB**

Lab Sample ID: 580-19393-18 Date Sampled: 05/11/2010 1315
Client Matrix: Solid % Moisture: 22.4 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64718		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64514		Lab File ID:	059SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1870 g
Date Analyzed:	05/27/2010 1913			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		0.64	^	0.22
Antimony		ND	^	0.22
Barium		130	^	0.22
Cadmium		ND		0.22
Chromium		400	^	0.22
Lead		1.3		0.22
Cobalt		93	^	0.22
Iron		43000		22
Manganese		270	^	0.54
Silver		ND		0.22
Thallium		ND		0.43
Vanadium		21		0.22
Aluminum		1900		33
Magnesium		10000		110
Potassium		130		110
Sodium		ND		110
Calcium		170		110

Method:	6020	Analysis Batch: 580-64756		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64514		Lab File ID:	058SMPL.D
Dilution:	10			Initial Weight/Volume:	1.1870 g
Date Analyzed:	05/28/2010 1632			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		ND		0.22
Copper		5.4	^	0.22
Nickel		1700	^	0.22
Selenium		ND		0.54
Zinc		18	^	0.76

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64554		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64500		Lab File ID:	64500-HG.PRN
Dilution:	1000			Initial Weight/Volume:	0.6350 g
Date Analyzed:	05/27/2010 1351			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1021				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		24		20

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **07HMMWB**

Lab Sample ID: 580-19393-19 Date Sampled: 05/08/2010 1556
Client Matrix: Solid % Moisture: 11.6 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64514 Lab File ID: 069SMPL.D
Dilution: 10 Initial Weight/Volume: 1.2184 g
Date Analyzed: 05/27/2010 2024 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1212

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		ND	^	0.19
Antimony		ND	^	0.19
Barium		0.37	^	0.19
Cadmium		ND		0.19
Chromium		1100	^	0.19
Lead		ND		0.19
Cobalt		120	^	0.19
Iron		50000		19
Manganese		710	^	0.46
Silver		ND		0.19
Thallium		ND		0.37
Vanadium		18		0.19
Aluminum		1200		28
Magnesium		200000		93
Potassium		ND		93
Sodium		ND		93
Calcium		1400		93

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64514 Lab File ID: 068SMPL.D
Dilution: 10 Initial Weight/Volume: 1.2184 g
Date Analyzed: 05/28/2010 1733 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1212

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		ND		0.19
Copper		13	^	0.19
Nickel		2200	^	0.19
Selenium		ND		0.46
Zinc		19	^	0.65

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64554 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64500 Lab File ID: 64500-HG.PRN
Dilution: 1.0 Initial Weight/Volume: 0.7369 g
Date Analyzed: 05/27/2010 1617 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1021

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		0.095		0.015

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **08HMSB**

Lab Sample ID: 580-19393-20 Date Sampled: 05/07/2010 1540
Client Matrix: Solid % Moisture: 7.5 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64514 Lab File ID: 070SMPL.D
Dilution: 10 Initial Weight/Volume: 1.1846 g
Date Analyzed: 05/27/2010 2032 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1212

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		ND	^	0.18
Antimony		ND	^	0.18
Barium		0.38	^	0.18
Cadmium		ND		0.18
Chromium		600	^	0.18
Lead		ND		0.18
Cobalt		87	^	0.18
Iron		48000		18
Manganese		740	^	0.46
Silver		ND		0.18
Thallium		ND		0.37
Vanadium		15		0.18
Aluminum		1300		27
Magnesium		200000		91
Potassium		ND		91
Sodium		ND		91
Calcium		2300		91

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64514 Lab File ID: 069SMPL.D
Dilution: 10 Initial Weight/Volume: 1.1846 g
Date Analyzed: 05/28/2010 1739 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1212

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		ND		0.18
Copper		4.1	^	0.18
Nickel		1700	^	0.18
Selenium		ND		0.46
Zinc		22	^	0.64

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64554 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64500 Lab File ID: 64500-HG.PRN
Dilution: 1.0 Initial Weight/Volume: 0.8196 g
Date Analyzed: 05/27/2010 1621 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1021

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		ND		0.013

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Client Sample ID: **09SMMW**

Lab Sample ID: 580-19393-21 Date Sampled: 04/25/2010 1416
Client Matrix: Solid % Moisture: 20.7 Date Received: 05/19/2010 0907

6020 Metals (ICP/MS)

Method: 6020 Analysis Batch: 580-64718 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64514 Lab File ID: 071SMPL.D
Dilution: 10 Initial Weight/Volume: 1.0065 g
Date Analyzed: 05/27/2010 2039 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1212

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		7.6	^	0.25
Antimony		0.61	^	0.25
Barium		240	^	0.25
Cadmium		ND		0.25
Chromium		170	^	0.25
Lead		9.4		0.25
Cobalt		27	^	0.25
Iron		34000		25
Manganese		370	^	0.63
Silver		ND		0.25
Thallium		ND		0.50
Vanadium		50		0.25
Aluminum		16000		38
Magnesium		19000		130
Potassium		1800		130
Sodium		ND		130
Calcium		3600		130

Method: 6020 Analysis Batch: 580-64756 Instrument ID: SEA044
Preparation: 3050B Prep Batch: 580-64514 Lab File ID: 070SMPL.D
Dilution: 10 Initial Weight/Volume: 1.0065 g
Date Analyzed: 05/28/2010 1745 Final Weight/Volume: 50 mL
Date Prepared: 05/27/2010 1212

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Beryllium		0.56		0.25
Copper		32	^	0.25
Nickel		290	^	0.25
Selenium		ND		0.63
Zinc		58	^	0.88

7471A Mercury (CVAA)

Method: 7471A Analysis Batch: 580-64410 Instrument ID: SEA029
Preparation: 7471A Prep Batch: 580-64215 Lab File ID: 64215-HG.PRN
Dilution: 1000 Initial Weight/Volume: 0.6713 g
Date Analyzed: 05/26/2010 1133 Final Weight/Volume: 50 mL
Date Prepared: 05/24/2010 1358

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		33	H	19

General Chemistry

Client Sample ID: **01CMMW**

Lab Sample ID: 580-19393-1 Date Sampled: 05/02/2010 1040
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	88		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	12		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **02CMSB**

Lab Sample ID: 580-19393-2 Date Sampled: 04/26/2010 1226
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	92		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	7.6		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **03CMMW**

Lab Sample ID: 580-19393-3 Date Sampled: 04/27/2010 0830
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	81		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	19		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **04CMSB**

Lab Sample ID: 580-19393-4 Date Sampled: 05/02/2010 1325
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	90		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	9.6		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **05CMMW**

Lab Sample ID: 580-19393-5 Date Sampled: 05/03/2010 0930
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	77		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	23		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **06CMSB**

Lab Sample ID: 580-19393-6 Date Sampled: 05/03/2010 1300
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	77		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	23		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **07CMMW**

Lab Sample ID: 580-19393-7 Date Sampled: 05/02/2010 1614
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	93		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	7.2		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **01SMMW**

Lab Sample ID: 580-19393-8 Date Sampled: 04/23/2010 1458
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	83		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	17		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **02SMSB**

Lab Sample ID: 580-19393-9 Date Sampled: 04/24/2010 1130
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	81		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	19		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **04SMMW**

Lab Sample ID: 580-19393-10 Date Sampled: 04/25/2010 0753
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	76		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	24		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **05SMSB-B**

Lab Sample ID: 580-19393-11 Date Sampled: 04/26/2010 0910
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	74		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	26		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **06SMMW- B**

Lab Sample ID: 580-19393-12 Date Sampled: 04/26/2010 0745
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	80		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	20		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **07SMMW**

Lab Sample ID: 580-19393-13 Date Sampled: 05/02/2010 0830
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	87		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	13		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **08SMSB**

Lab Sample ID: 580-19393-14 Date Sampled: 04/25/2010 1517

Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	76		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	24		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **01HMMW**

Lab Sample ID: 580-19393-15 Date Sampled: 05/08/2010 1140
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	73		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	27		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **02HMSB**

Lab Sample ID: 580-19393-16 Date Sampled: 05/08/2010 0838
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	74		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	26		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **04HMMW**

Lab Sample ID: 580-19393-17 Date Sampled: 05/08/2010 1420
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	91		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	9.1		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **05HMSB**

Lab Sample ID: 580-19393-18 Date Sampled: 05/11/2010 1315

Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	78		%	0.10	1.0	Moisture
Analysis Batch: 580-64333	Date Analyzed: 05/25/2010 1422					DryWt Corrected: N
Percent Moisture	22		%	0.10	1.0	Moisture
Analysis Batch: 580-64333	Date Analyzed: 05/25/2010 1422					DryWt Corrected: N

General Chemistry

Client Sample ID: **07HMMWB**

Lab Sample ID: 580-19393-19 Date Sampled: 05/08/2010 1556
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	88		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	12		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **08HMSB**

Lab Sample ID: 580-19393-20 Date Sampled: 05/07/2010 1540
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	92		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	7.5		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

General Chemistry

Client Sample ID: **09SMMW**

Lab Sample ID: 580-19393-21 Date Sampled: 04/25/2010 1416
Client Matrix: Solid Date Received: 05/19/2010 0907

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	79		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N
Percent Moisture	21		%	0.10	1.0	Moisture
Analysis Batch: 580-64347	Date Analyzed: 05/25/2010 1509					DryWt Corrected: N

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Method Blank - Batch: 580-64447

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 580-64447/21-A
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/27/2010 1524
Date Prepared: 05/26/2010 1603

Analysis Batch: 580-64718
Prep Batch: 580-64447
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 025SMPL.D
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND	^	0.20
Antimony	ND	^	0.20
Barium	ND	^	0.20
Cadmium	ND		0.20
Chromium	ND	^	0.20
Lead	ND		0.20
Cobalt	ND	^	0.20
Iron	ND		20
Manganese	ND	^	0.50
Silver	ND		0.20
Thallium	ND		0.40
Vanadium	ND		0.20
Aluminum	ND		30
Magnesium	ND		100
Potassium	ND		100
Sodium	ND		100
Calcium	ND		100

Method Blank - Batch: 580-64447

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 580-64447/21-A
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/28/2010 1305
Date Prepared: 05/26/2010 1603

Analysis Batch: 580-64756
Prep Batch: 580-64447
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 024SMPL.D
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Beryllium	ND		0.20
Copper	ND	^	0.20
Nickel	ND	^	0.20
Selenium	ND		0.50
Zinc	ND	^	0.70

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

LCS-Standard Reference Material - Batch:

Method: 6020
Preparation: 3050B

Lab Sample ID: LCSSRM 580-64447/24-A
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/27/2010 1619
Date Prepared: 05/26/2010 1603

Analysis Batch: 580-64718
Prep Batch: 580-64447
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 034SMPL
Initial Weight/Volume: 0.5225 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	225	261	116	71.1 - 128.9	^
Antimony	126	162	129	21.0 - 251.6	^
Barium	565	632	112	74.7 - 125.5	^
Cadmium	69.1	77.1	112	73.2 - 126.8	
Chromium	124	142	114	69.9 - 129.8	^
Lead	223	251	113	75.3 - 125.1	
Cobalt	115	138	120	74.5 - 126.1	^
Iron	17600	20800	118	41.6 - 159.1	
Manganese	368	416	113	75.8 - 124.5	^
Silver	35.2	41.0	117	65.6 - 134.4	
Thallium	173	201	116	68.8 - 131.2	
Vanadium	93.9	112	119	64.5 - 135.3	
Aluminum	10600	12000	113	46.0 - 153.8	
Magnesium	4260	4940	116	70.0 - 130.0	

LCS-Standard Reference Material - Batch:

Method: 6020
Preparation: 3050B

Lab Sample ID: LCSSRM 580-64447/24-A
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/28/2010 1400
Date Prepared: 05/26/2010 1603

Analysis Batch: 580-64756
Prep Batch: 580-64447
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 033SMPL
Initial Weight/Volume: 0.5225 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Beryllium	162	166	102	75.3 - 124.7	
Copper	66.7	72.9	109	73.2 - 126.8	^
Nickel	172	190	111	73.8 - 126.7	^
Selenium	147	166	113	67.1 - 132.7	
Zinc	349	373	107	72.2 - 127.8	^

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64447

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64447/22-A	Analysis Batch: 580-64718	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64447	Lab File ID: 032SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/27/2010 1607		Final Weight/Volume: 50 mL
Date Prepared:	05/26/2010 1603		

LCSD Lab Sample ID:	LCSD 580-64447/23-A	Analysis Batch: 580-64718	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64447	Lab File ID: 033SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/27/2010 1613		Final Weight/Volume: 50 mL
Date Prepared:	05/26/2010 1603		

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	99	99	80 - 120	1	35	^	^
Antimony	94	94	80 - 120	0	35	^	^
Barium	98	96	80 - 120	2	35	^	^
Cadmium	95	95	80 - 120	0	35		
Chromium	100	100	80 - 120	1	35	^	^
Lead	101	100	80 - 120	2	35		
Cobalt	102	102	80 - 120	1	35	^	^
Iron	103	102	80 - 120	1	35		
Manganese	101	101	80 - 120	0	35	^	^
Silver	99	100	80 - 120	1	35		
Thallium	98	96	80 - 120	1	35		
Vanadium	99	99	80 - 120	1	35		
Aluminum	104	98	80 - 120	6	35		
Magnesium	105	104	80 - 120	1	35		

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64447

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64447/22-A	Analysis Batch:	580-64756	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64447	Lab File ID:	031SMPL.D
Dilution:	50	Units:	mg/Kg	Initial Weight/Volume:	1.0 g
Date Analyzed:	05/28/2010 1348			Final Weight/Volume:	50 mL
Date Prepared:	05/26/2010 1603				

LCSD Lab Sample ID:	LCSD 580-64447/23-A	Analysis Batch:	580-64756	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64447	Lab File ID:	032SMPL.D
Dilution:	50	Units:	mg/Kg	Initial Weight/Volume:	1.0 g
Date Analyzed:	05/28/2010 1354			Final Weight/Volume:	50 mL
Date Prepared:	05/26/2010 1603				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Beryllium	94	92	80 - 120	3	35		
Copper	101	103	80 - 120	2	35	^	^
Nickel	101	99	80 - 120	2	35	^	^
Selenium	103	100	80 - 120	3	35		
Zinc	99	99	80 - 120	0	35	^	^

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64447

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64447/22-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 580-64447/23-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	50			Dilution:	50
Date Analyzed:	05/27/2010 1607			Date Analyzed:	05/27/2010 1613
Date Prepared:	05/26/2010 1603			Date Prepared:	05/26/2010 1603

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Arsenic	200	200	197	^	198	^
Antimony	150	150	142	^	141	^
Barium	200	200	196	^	192	^
Cadmium	5.00	5.00	4.75		4.76	
Chromium	20.0	20.0	19.9	^	20.1	^
Lead	50.0	50.0	50.6		49.8	
Cobalt	50.0	50.0	50.8	^	51.2	^
Iron	1100	1100	1130		1120	
Manganese	50.0	50.0	50.5	^	50.6	^
Silver	30.0	30.0	29.7		30.0	
Thallium	200	200	195		193	
Vanadium	50.0	50.0	49.4		49.7	
Aluminum	200	200	208		196	
Magnesium	1000	1000	1050		1040	

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64447

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64447/22-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 580-64447/23-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	50			Dilution:	50
Date Analyzed:	05/28/2010 1348			Date Analyzed:	05/28/2010 1354
Date Prepared:	05/26/2010 1603			Date Prepared:	05/26/2010 1603

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Beryllium	5.00	5.00	4.70		4.58	
Copper	25.0	25.0	25.3	^	25.8	^
Nickel	50.0	50.0	50.5	^	49.4	^
Selenium	200	200	207		200	
Zinc	50.0	50.0	49.5	^	49.6	^

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-64447

Method: 6020
Preparation: 3050B

MS Lab Sample ID:	580-19393-1	Analysis Batch:	580-64718	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64447	Lab File ID:	029SMPL.D
Dilution:	50			Initial Weight/Volume:	1.1393 g
Date Analyzed:	05/27/2010 1548			Final Weight/Volume:	50 mL
Date Prepared:	05/26/2010 1603				

MSD Lab Sample ID:	580-19393-1	Analysis Batch:	580-64718	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64447	Lab File ID:	030SMPL.D
Dilution:	50			Initial Weight/Volume:	1.1271 g
Date Analyzed:	05/27/2010 1554			Final Weight/Volume:	50 mL
Date Prepared:	05/26/2010 1603				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	91	93	75 - 125	4	35	^	^
Antimony	91	94	75 - 125	4	35	^	^
Barium	73	81	75 - 125	4	35	^ F	^
Cadmium	93	96	75 - 125	5	35		
Chromium	91	151	75 - 125	5	35	^ 4	^ 4
Lead	94	99	75 - 125	5	35		
Cobalt	92	100	75 - 125	7	35	^	^
Iron	-56	107	75 - 125	4	35	4	4
Manganese	131	221	75 - 125	6	35	^ 4	^ 4
Silver	94	98	75 - 125	5	35		
Thallium	94	97	75 - 125	4	35		
Vanadium	88	101	75 - 125	6	35		
Aluminum	378	1110	75 - 125	6	35	4	4
Magnesium	105	278	75 - 125	6	35	4	4

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-64447

Method: 6020
Preparation: 3050B

MS Lab Sample ID:	580-19393-1	Analysis Batch:	580-64756	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64447	Lab File ID:	028SMPL.D
Dilution:	50			Initial Weight/Volume:	1.1393 g
Date Analyzed:	05/28/2010 1329			Final Weight/Volume:	50 mL
Date Prepared:	05/26/2010 1603				

MSD Lab Sample ID:	580-19393-1	Analysis Batch:	580-64756	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64447	Lab File ID:	029SMPL.D
Dilution:	50			Initial Weight/Volume:	1.1271 g
Date Analyzed:	05/28/2010 1336			Final Weight/Volume:	50 mL
Date Prepared:	05/26/2010 1603				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Beryllium	93	97	75 - 125	5	35		
Copper	103	114	75 - 125	4	35	^	^
Nickel	110	141	75 - 125	5	35	^ 4	^ 4
Selenium	101	98	75 - 125	2	35		
Zinc	92	101	75 - 125	4	35	^	^

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-64447

Method: 6020
Preparation: 3050B

MS Lab Sample ID: 580-19393-1
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/27/2010 1548
Date Prepared: 05/26/2010 1603

Units: mg/Kg

MSD Lab Sample ID: 580-19393-1
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/27/2010 1554
Date Prepared: 05/26/2010 1603

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Arsenic	10	201	203	192	^	200	^
Antimony	0.73	150	152	138	^	144	^
Barium	330	201	203	477	^ F	496	^
Cadmium	ND	5.01	5.07	4.82		5.06	
Chromium	210	20.1	20.3	226	^ 4	238	^ 4
Lead	12	50.1	50.7	59.4		62.1	
Cobalt	25	50.1	50.7	70.8	^	75.7	^
Iron	41000	1100	1120	40100	4	42000	4
Manganese	680	50.1	50.7	741	^ 4	788	^ 4
Silver	ND	30.1	30.4	28.4		29.8	
Thallium	ND	201	203	188		197	
Vanadium	72	50.1	50.7	116		123	
Aluminum	24000	201	203	24500	4	26000	4
Magnesium	26000	1000	1010	27000	4	28800	4

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-64447

Method: 6020
Preparation: 3050B

MS Lab Sample ID: 580-19393-1
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/28/2010 1329
Date Prepared: 05/26/2010 1603

Units: mg/Kg

MSD Lab Sample ID: 580-19393-1
Client Matrix: Solid
Dilution: 50
Date Analyzed: 05/28/2010 1336
Date Prepared: 05/26/2010 1603

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Beryllium	0.82	5.01	5.07	5.47		5.75	
Copper	44	25.1	25.3	69.6	^	72.7	^
Nickel	250	50.1	50.7	305	^ 4	321	^ 4
Selenium	0.75	201	203	203		199	
Zinc	70	50.1	50.7	117	^	122	^

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Duplicate - Batch: 580-64447

Method: 6020
Preparation: 3050B

Lab Sample ID: 580-19393-1
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/27/2010 1542
Date Prepared: 05/26/2010 1603

Analysis Batch: 580-64718
Prep Batch: 580-64447
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 028SMPL.D
Initial Weight/Volume: 1.2279 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Arsenic	10	10.1	3	35	^
Antimony	0.73	0.739	1	35	^
Barium	330	323	3	35	^
Cadmium	ND	0.197	12	35	
Chromium	210	195	6	35	^
Lead	12	11.7	3	35	
Cobalt	25	24.0	3	35	^
Iron	41000	39200	4	35	
Manganese	680	641	5	35	^
Silver	ND	ND	9	35	
Thallium	ND	ND	6	35	
Vanadium	72	69.1	4	35	
Aluminum	24000	22900	3	35	
Magnesium	26000	25300	3	35	
Potassium	1000	1040	2	35	
Sodium	ND	ND	0	35	
Calcium	12000	11400	4	35	

Duplicate - Batch: 580-64447

Method: 6020
Preparation: 3050B

Lab Sample ID: 580-19393-1
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/28/2010 1323
Date Prepared: 05/26/2010 1603

Analysis Batch: 580-64756
Prep Batch: 580-64447
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 027SMPL.D
Initial Weight/Volume: 1.2279 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Beryllium	0.82	0.783	5	35	
Copper	44	42.4	3	35	^
Nickel	250	244	2	35	^
Selenium	0.75	0.676	10	35	
Zinc	70	67.6	4	35	^

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Method Blank - Batch: 580-64514

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 580-64514/21-A
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/27/2010 1858
Date Prepared: 05/27/2010 1212

Analysis Batch: 580-64718
Prep Batch: 580-64514
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 057SMPL.D
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND	^	0.20
Antimony	ND	^	0.20
Barium	ND	^	0.20
Cadmium	ND		0.20
Chromium	ND	^	0.20
Lead	ND		0.20
Cobalt	ND	^	0.20
Iron	ND		20
Manganese	ND	^	0.50
Silver	ND		0.20
Thallium	ND		0.40
Vanadium	ND		0.20
Aluminum	ND		30
Magnesium	ND		100
Potassium	ND		100
Sodium	ND		100
Calcium	ND		100

Method Blank - Batch: 580-64514

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 580-64514/21-A
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/28/2010 1619
Date Prepared: 05/27/2010 1212

Analysis Batch: 580-64756
Prep Batch: 580-64514
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 056SMPL.D
Initial Weight/Volume: 1.0 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Beryllium	ND		0.20
Copper	ND	^	0.20
Nickel	ND	^	0.20
Selenium	ND		0.50
Zinc	ND	^	0.70

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

LCS-Standard Reference Material - Batch:

Method: 6020
Preparation: 3050B

Lab Sample ID: LCSSRM 580-64514/24-A
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/27/2010 2003
Date Prepared: 05/27/2010 1212

Analysis Batch: 580-64718
Prep Batch: 580-64514
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 066SMPL
Initial Weight/Volume: 0.5119 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	225	252	112	71.1 - 128.9	^
Antimony	126	158	126	21.0 - 251.6	^
Barium	565	631	112	74.7 - 125.5	^
Cadmium	69.1	74.3	107	73.2 - 126.8	
Chromium	124	133	107	69.9 - 129.8	^
Lead	223	243	109	75.3 - 125.1	
Cobalt	115	131	114	74.5 - 126.1	^
Iron	17600	19400	110	41.6 - 159.1	
Manganese	368	397	108	75.8 - 124.5	^
Silver	35.2	40.2	114	65.6 - 134.4	
Thallium	173	195	113	68.8 - 131.2	
Vanadium	93.9	106	113	64.5 - 135.3	
Aluminum	10600	10900	103	46.0 - 153.8	
Magnesium	4260	4520	106	70.0 - 130.0	

LCS-Standard Reference Material - Batch:

Method: 6020
Preparation: 3050B

Lab Sample ID: LCSSRM 580-64514/24-A
Client Matrix: Solid
Dilution: 20
Date Analyzed: 05/28/2010 1714
Date Prepared: 05/27/2010 1212

Analysis Batch: 580-64756
Prep Batch: 580-64514
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 065SMPL
Initial Weight/Volume: 0.5119 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Beryllium	162	167	103	75.3 - 124.7	
Copper	66.7	74.0	111	73.2 - 126.8	^
Nickel	172	192	111	73.8 - 126.7	^
Selenium	147	166	113	67.1 - 132.7	
Zinc	349	388	111	72.2 - 127.8	^

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64514

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64514/22-A	Analysis Batch: 580-64718	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64514	Lab File ID: 064SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/27/2010 1949		Final Weight/Volume: 50 mL
Date Prepared:	05/27/2010 1212		

LCSD Lab Sample ID:	LCSD 580-64514/23-A	Analysis Batch: 580-64718	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64514	Lab File ID: 065SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/27/2010 1956		Final Weight/Volume: 50 mL
Date Prepared:	05/27/2010 1212		

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	102	102	80 - 120	0	35	^	^
Antimony	106	98	80 - 120	8	35	^	^
Barium	111	101	80 - 120	9	35	^	^
Cadmium	105	104	80 - 120	1	35		
Chromium	105	103	80 - 120	2	35	^	^
Lead	113	105	80 - 120	7	35		
Cobalt	105	105	80 - 120	0	35	^	^
Iron	105	102	80 - 120	3	35		
Manganese	105	104	80 - 120	1	35	^	^
Silver	112	102	80 - 120	9	35		
Thallium	108	101	80 - 120	6	35		
Vanadium	104	102	80 - 120	1	35		
Aluminum	96	98	80 - 120	2	35		
Magnesium	104	103	80 - 120	0	35		

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64514

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64514/22-A	Analysis Batch: 580-64756	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64514	Lab File ID: 063SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/28/2010 1702		Final Weight/Volume: 50 mL
Date Prepared:	05/27/2010 1212		

LCSD Lab Sample ID:	LCSD 580-64514/23-A	Analysis Batch: 580-64756	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64514	Lab File ID: 064SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	05/28/2010 1708		Final Weight/Volume: 50 mL
Date Prepared:	05/27/2010 1212		

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Beryllium	94	96	80 - 120	2	35		
Copper	106	105	80 - 120	1	35	^	^
Nickel	103	102	80 - 120	1	35	^	^
Selenium	100	103	80 - 120	4	35		
Zinc	103	103	80 - 120	1	35	^	^

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64514

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64514/22-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 580-64514/23-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	50			Dilution:	50
Date Analyzed:	05/27/2010 1949			Date Analyzed:	05/27/2010 1956
Date Prepared:	05/27/2010 1212			Date Prepared:	05/27/2010 1212

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Arsenic	200	200	204	^	204	^
Antimony	150	150	159	^	147	^
Barium	200	200	221	^	203	^
Cadmium	5.00	5.00	5.24		5.18	
Chromium	20.0	20.0	21.1	^	20.6	^
Lead	50.0	50.0	56.3		52.4	
Cobalt	50.0	50.0	52.6	^	52.6	^
Iron	1100	1100	1160		1130	
Manganese	50.0	50.0	52.4	^	51.8	^
Silver	30.0	30.0	33.5		30.6	
Thallium	200	200	215		203	
Vanadium	50.0	50.0	52.0		51.2	
Aluminum	200	200	192		196	
Magnesium	1000	1000	1040		1030	

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64514

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64514/22-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 580-64514/23-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	50			Dilution:	50
Date Analyzed:	05/28/2010 1702			Date Analyzed:	05/28/2010 1708
Date Prepared:	05/27/2010 1212			Date Prepared:	05/27/2010 1212

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Beryllium	5.00	5.00	4.71		4.78	
Copper	25.0	25.0	26.4	^	26.1	^
Nickel	50.0	50.0	51.4	^	50.9	^
Selenium	200	200	199		207	
Zinc	50.0	50.0	51.7	^	51.3	^

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-64514

Method: 6020
Preparation: 3050B

MS Lab Sample ID:	580-19393-18	Analysis Batch:	580-64718	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64514	Lab File ID:	061SMPL.D
Dilution:	50			Initial Weight/Volume:	1.3021 g
Date Analyzed:	05/27/2010 1927			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

MSD Lab Sample ID:	580-19393-18	Analysis Batch:	580-64718	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64514	Lab File ID:	062SMPL.D
Dilution:	50			Initial Weight/Volume:	1.1618 g
Date Analyzed:	05/27/2010 1934			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	98	97	75 - 125	11	35	^	^
Antimony	91	92	75 - 125	13	35	^	^
Barium	88	96	75 - 125	12	35	^	^
Cadmium	103	106	75 - 125	14	35		
Chromium	-100	55	75 - 125	8	35	^ 4	^ 4
Lead	103	103	75 - 125	11	35		
Cobalt	77	96	75 - 125	11	35	^	^
Iron	-470	-117	75 - 125	9	35	4	4
Manganese	21	77	75 - 125	11	35	^ 4	^ 4
Silver	102	101	75 - 125	10	35		
Thallium	100	100	75 - 125	11	35		
Vanadium	92	94	75 - 125	9	35		
Aluminum	0	72	75 - 125	8	35	4	4
Magnesium	-6	105	75 - 125	12	35	4	4

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-64514

Method: 6020
Preparation: 3050B

MS Lab Sample ID:	580-19393-18	Analysis Batch:	580-64756	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64514	Lab File ID:	060SMPL.D
Dilution:	50			Initial Weight/Volume:	1.3021 g
Date Analyzed:	05/28/2010 1644			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

MSD Lab Sample ID:	580-19393-18	Analysis Batch:	580-64756	Instrument ID:	SEA044
Client Matrix:	Solid	Prep Batch:	580-64514	Lab File ID:	061SMPL.D
Dilution:	50			Initial Weight/Volume:	1.1618 g
Date Analyzed:	05/28/2010 1650			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1212				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Beryllium	96	92	75 - 125	8	35		
Copper	100	103	75 - 125	12	35	^	^
Nickel	-240	119	75 - 125	11	35	^ 4	^ 4
Selenium	97	102	75 - 125	17	35		
Zinc	95	96	75 - 125	9	35	^	^

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-64514

Method: 6020
Preparation: 3050B

MS Lab Sample ID:	580-19393-18	Units: mg/Kg	MSD Lab Sample ID:	580-19393-18
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	50		Dilution:	50
Date Analyzed:	05/27/2010 1927		Date Analyzed:	05/27/2010 1934
Date Prepared:	05/27/2010 1212		Date Prepared:	05/27/2010 1212

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Arsenic	0.64	198	222	194	^	216	^
Antimony	ND	148	166	135	^	153	^
Barium	130	198	222	303	^	342	^
Cadmium	ND	4.95	5.54	5.13		5.90	
Chromium	400	19.8	22.2	377	^ 4	409	^ 4
Lead	1.3	49.5	55.4	52.5		58.5	
Cobalt	93	49.5	55.4	131	^	147	^
Iron	43000	1090	1220	37400	4	41100	4
Manganese	270	49.5	55.4	283	^ 4	316	^ 4
Silver	ND	29.7	33.3	30.3		33.6	
Thallium	ND	198	222	198		221	
Vanadium	21	49.5	55.4	66.6		73.2	
Aluminum	1900	198	222	1890	4	2050	4
Magnesium	10000	989	1110	9970	4	11200	4

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-64514

Method: 6020
Preparation: 3050B

MS Lab Sample ID:	580-19393-18	Units: mg/Kg	MSD Lab Sample ID:	580-19393-18
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	50		Dilution:	50
Date Analyzed:	05/28/2010 1644		Date Analyzed:	05/28/2010 1650
Date Prepared:	05/27/2010 1212		Date Prepared:	05/27/2010 1212

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Beryllium	ND	4.95	5.54	4.84		5.22	
Copper	5.4	24.7	27.7	30.1	^	34.0	^
Nickel	1700	49.5	55.4	1580	^ 4	1760	^ 4
Selenium	ND	198	222	191		227	
Zinc	18	49.5	55.4	64.6	^	70.8	^

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Duplicate - Batch: 580-64514

Method: 6020
Preparation: 3050B

Lab Sample ID: 580-19393-18
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/27/2010 1920
Date Prepared: 05/27/2010 1212

Analysis Batch: 580-64718
Prep Batch: 580-64514
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 060SMPL.D
Initial Weight/Volume: 1.2142 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Arsenic	0.64	0.613	4	35	^
Antimony	ND	ND	3	35	^
Barium	130	128	0	35	^
Cadmium	ND	ND	7	35	
Chromium	400	393	1	35	^
Lead	1.3	1.24	4	35	
Cobalt	93	92.9	1	35	^
Iron	43000	41300	3	35	
Manganese	270	269	2	35	^
Silver	ND	ND	NC	35	
Thallium	ND	ND	2	35	
Vanadium	21	20.9	1	35	
Aluminum	1900	1880	0	35	
Magnesium	10000	10000	0	35	
Potassium	130	126	1	35	
Sodium	ND	ND	NC	35	
Calcium	170	168	2	35	

Duplicate - Batch: 580-64514

Method: 6020
Preparation: 3050B

Lab Sample ID: 580-19393-18
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/28/2010 1638
Date Prepared: 05/27/2010 1212

Analysis Batch: 580-64756
Prep Batch: 580-64514
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 059SMPL.D
Initial Weight/Volume: 1.2142 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Beryllium	ND	ND	5	35	
Copper	5.4	5.26	2	35	^
Nickel	1700	1670	1	35	^
Selenium	ND	ND	188	35	
Zinc	18	17.8	0	35	^

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Method Blank - Batch: 580-64215

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 580-64215/21-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/26/2010 0932
Date Prepared: 05/24/2010 1358

Analysis Batch: 580-64410
Prep Batch: 580-64215
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64215-HG.PRN
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Mercury	ND		0.020

LCS-Standard Reference Material - Batch:

Method: 7471A
Preparation: 7471A

Lab Sample ID: LCSSRM 580-64215/24-A
Client Matrix: Solid
Dilution: 2.0
Date Analyzed: 05/26/2010 0945
Date Prepared: 05/24/2010 1358

Analysis Batch: 580-64410
Prep Batch: 580-64215
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64215-HG.PRN
Initial Weight/Volume: 0.1047 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.15	4.68	91	80 - 120	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64215

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 580-64215/22-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/26/2010 0936
Date Prepared: 05/24/2010 1358

Analysis Batch: 580-64410
Prep Batch: 580-64215
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64215-HG.PRN
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

LCSD Lab Sample ID: LCSD 580-64215/23-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/26/2010 0941
Date Prepared: 05/24/2010 1358

Analysis Batch: 580-64410
Prep Batch: 580-64215
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64215-HG.PRN
Initial Weight/Volume: 0.5 g
Final Weight/Volume: 50 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	102	102	75 - 125	0	25		

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64215

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 580-64215/22-A
Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/26/2010 0936
Date Prepared: 05/24/2010 1358

LCSD Lab Sample ID: LCSD 580-64215/23-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/26/2010 0941
Date Prepared: 05/24/2010 1358

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Mercury	0.200	0.200	0.204	0.203

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-64215

Method: 7471A
Preparation: 7471A

MS Lab Sample ID: 580-19393-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/26/2010 0958
Date Prepared: 05/24/2010 1358

Analysis Batch: 580-64410
Prep Batch: 580-64215

Instrument ID: SEA029
Lab File ID: 64215-HG.PRN
Initial Weight/Volume: 0.6945 g
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 580-19393-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/26/2010 1003
Date Prepared: 05/24/2010 1358

Analysis Batch: 580-64410
Prep Batch: 580-64215

Instrument ID: SEA029
Lab File ID: 64215-HG.PRN
Initial Weight/Volume: 0.7195 g
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	131	129	75 - 125	4	35	F	F

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-64215

Method: 7471A
Preparation: 7471A

MS Lab Sample ID: 580-19393-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/26/2010 0958
Date Prepared: 05/24/2010 1358

Units: mg/Kg

MSD Lab Sample ID: 580-19393-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/26/2010 1003
Date Prepared: 05/24/2010 1358

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Mercury	0.071	0.165	0.159	0.286	F	0.276	F

Duplicate - Batch: 580-64215

Method: 7471A
Preparation: 7471A

Lab Sample ID: 580-19393-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/26/2010 0954
Date Prepared: 05/24/2010 1358

Analysis Batch: 580-64410
Prep Batch: 580-64215
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64215-HG.PRN
Initial Weight/Volume: 0.5616 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	0.071	0.0778	9	35	

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Method Blank - Batch: 580-64500

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 580-64500/24-A	Analysis Batch:	580-64554	Instrument ID:	SEA029
Client Matrix:	Solid	Prep Batch:	580-64500	Lab File ID:	64500-HG.PRN
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	0.5 g
Date Analyzed:	05/27/2010 1254			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1021				

Analyte	Result	Qual	RL
Mercury	ND		0.020

LCS-Standard Reference Material - Batch:

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCSSRM 580-64500/27-A	Analysis Batch:	580-64554	Instrument ID:	SEA029
Client Matrix:	Solid	Prep Batch:	580-64500	Lab File ID:	64500-HG.PRN
Dilution:	2.0	Units:	mg/Kg	Initial Weight/Volume:	0.1302 g
Date Analyzed:	05/27/2010 1307			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1021				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.15	4.97	96	80 - 120	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64500

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID:	LCS 580-64500/25-A	Analysis Batch:	580-64554	Instrument ID:	SEA029
Client Matrix:	Solid	Prep Batch:	580-64500	Lab File ID:	64500-HG.PRN
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	.5 g
Date Analyzed:	05/27/2010 1258			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1021				

LCSD Lab Sample ID:	LCSD 580-64500/26-A	Analysis Batch:	580-64554	Instrument ID:	SEA029
Client Matrix:	Solid	Prep Batch:	580-64500	Lab File ID:	64500-HG.PRN
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	.5 g
Date Analyzed:	05/27/2010 1303			Final Weight/Volume:	50 mL
Date Prepared:	05/27/2010 1021				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	96	98	75 - 125	2	25		

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64500

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID: LCS 580-64500/25-A
Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/27/2010 1258
Date Prepared: 05/27/2010 1021

LCSD Lab Sample ID: LCSD 580-64500/26-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/27/2010 1303
Date Prepared: 05/27/2010 1021

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Mercury	0.200	0.200	0.192	0.195

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-64500

Method: 7471A
Preparation: 7471A

MS Lab Sample ID: 580-19393-17
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/27/2010 1333
Date Prepared: 05/27/2010 1021

Analysis Batch: 580-64554
Prep Batch: 580-64500

Instrument ID: SEA029
Lab File ID: 64500-HG.PRN
Initial Weight/Volume: 0.7563 g
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 580-19393-17
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/27/2010 1337
Date Prepared: 05/27/2010 1021

Analysis Batch: 580-64554
Prep Batch: 580-64500

Instrument ID: SEA029
Lab File ID: 64500-HG.PRN
Initial Weight/Volume: 0.7667 g
Final Weight/Volume: 50 mL

Analyte	% Rec. MS	% Rec. MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	296	272	75 - 125	1	35	4	4

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-64500

Method: 7471A
Preparation: 7471A

MS Lab Sample ID: 580-19393-17
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/27/2010 1333
Date Prepared: 05/27/2010 1021

Units: mg/Kg

MSD Lab Sample ID: 580-19393-17
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/27/2010 1337
Date Prepared: 05/27/2010 1021

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Mercury	3.1	0.145	0.144	3.52	4	3.48	4

Duplicate - Batch: 580-64500

Method: 7471A
Preparation: 7471A

Lab Sample ID: 580-19393-17
Client Matrix: Solid
Dilution: 10
Date Analyzed: 05/27/2010 1328
Date Prepared: 05/27/2010 1021

Analysis Batch: 580-64554
Prep Batch: 580-64500
Units: mg/Kg

Instrument ID: SEA029
Lab File ID: 64500-HG.PRN
Initial Weight/Volume: 0.6172 g
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Mercury	3.1	3.59	15	35	

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Duplicate - Batch: 580-64347

Method: Moisture
Preparation: N/A

Lab Sample ID: 580-19393-3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/25/2010 1509
Date Prepared: N/A

Analysis Batch: 580-64347
Prep Batch: N/A
Units: %

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume:

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Percent Solids	81	80	0	20	
Percent Moisture	19	20	2	20	

DATA REPORTING QUALIFIERS

Client: Ecology and Environment, Inc. Job Number: 580-19393-1

Lab Section	Qualifier	Description
Metals		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.
	F	MS or MSD exceeds the control limits
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	W	PS: Post-digestion spike was outside control limits
	H	Sample was prepped or analyzed beyond the specified holding time
	V	Serial Dilution exceeds the control limits

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 580-64215					
LCS 580-64215/22-A	Lab Control Sample	T	Solid	7471A	
LCSD 580-64215/23-A	Lab Control Sample Duplicate	T	Solid	7471A	
LCSSRM 580-64215/24-A	LCS-Standard Reference Material	T	Solid	7471A	
MB 580-64215/21-A	Method Blank	T	Solid	7471A	
580-19393-1	01CMMW	T	Solid	7471A	
580-19393-1DU	Duplicate	T	Solid	7471A	
580-19393-1MS	Matrix Spike	T	Solid	7471A	
580-19393-1MSD	Matrix Spike Duplicate	T	Solid	7471A	
580-19393-2	02CMSB	T	Solid	7471A	
580-19393-3	03CMMW	T	Solid	7471A	
580-19393-4	04CMSB	T	Solid	7471A	
580-19393-5	05CMMW	T	Solid	7471A	
580-19393-6	06CMSB	T	Solid	7471A	
580-19393-7	07CMMW	T	Solid	7471A	
580-19393-8	01SMMW	T	Solid	7471A	
580-19393-9	02SMSB	T	Solid	7471A	
580-19393-10	04SMMW	T	Solid	7471A	
580-19393-11	05SMSB-B	T	Solid	7471A	
580-19393-12	06SMMW- B	T	Solid	7471A	
580-19393-13	07SMMW	T	Solid	7471A	
580-19393-14	08SMSB	T	Solid	7471A	
580-19393-15	01HMMW	T	Solid	7471A	
580-19393-16	02HMSB	T	Solid	7471A	
580-19393-21	09SMMW	T	Solid	7471A	

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:580-64410					
LCS 580-64215/22-A	Lab Control Sample	T	Solid	7471A	580-64215
LCSD 580-64215/23-A	Lab Control Sample Duplicate	T	Solid	7471A	580-64215
LCSSRM 580-64215/24-A	LCS-Standard Reference Material	T	Solid	7471A	580-64215
MB 580-64215/21-A	Method Blank	T	Solid	7471A	580-64215
580-19393-1	01CMMW	T	Solid	7471A	580-64215
580-19393-1DU	Duplicate	T	Solid	7471A	580-64215
580-19393-1MS	Matrix Spike	T	Solid	7471A	580-64215
580-19393-1MSD	Matrix Spike Duplicate	T	Solid	7471A	580-64215
580-19393-2	02CMSB	T	Solid	7471A	580-64215
580-19393-3	03CMMW	T	Solid	7471A	580-64215
580-19393-4	04CMSB	T	Solid	7471A	580-64215
580-19393-5	05CMMW	T	Solid	7471A	580-64215
580-19393-6	06CMSB	T	Solid	7471A	580-64215
580-19393-7	07CMMW	T	Solid	7471A	580-64215
580-19393-8	01SMMW	T	Solid	7471A	580-64215
580-19393-9	02SMSB	T	Solid	7471A	580-64215
580-19393-10	04SMMW	T	Solid	7471A	580-64215
580-19393-11	05SMSB-B	T	Solid	7471A	580-64215
580-19393-12	06SMMW- B	T	Solid	7471A	580-64215
580-19393-13	07SMMW	T	Solid	7471A	580-64215
580-19393-14	08SMSB	T	Solid	7471A	580-64215
580-19393-15	01HMMW	T	Solid	7471A	580-64215
580-19393-16	02HMSB	T	Solid	7471A	580-64215
580-19393-21	09SMMW	T	Solid	7471A	580-64215

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 580-64447					
LCS 580-64447/22-A	Lab Control Sample	T	Solid	3050B	
LCSD 580-64447/23-A	Lab Control Sample Duplicate	T	Solid	3050B	
LCSSRM 580-64447/24-A	LCS-Standard Reference Material	T	Solid	3050B	
MB 580-64447/21-A	Method Blank	T	Solid	3050B	
580-19393-1	01CMMW	T	Solid	3050B	
580-19393-1DU	Duplicate	T	Solid	3050B	
580-19393-1MS	Matrix Spike	T	Solid	3050B	
580-19393-1MSD	Matrix Spike Duplicate	T	Solid	3050B	
580-19393-2	02CMSB	T	Solid	3050B	
580-19393-3	03CMMW	T	Solid	3050B	
580-19393-4	04CMSB	T	Solid	3050B	
580-19393-5	05CMMW	T	Solid	3050B	
580-19393-6	06CMSB	T	Solid	3050B	
580-19393-7	07CMMW	T	Solid	3050B	
580-19393-8	01SMMW	T	Solid	3050B	
580-19393-9	02SMSB	T	Solid	3050B	
580-19393-10	04SMMW	T	Solid	3050B	
580-19393-11	05SMSB-B	T	Solid	3050B	
580-19393-12	06SMMW- B	T	Solid	3050B	
580-19393-13	07SMMW	T	Solid	3050B	
580-19393-14	08SMSB	T	Solid	3050B	
580-19393-15	01HMMW	T	Solid	3050B	
580-19393-16	02HMSB	T	Solid	3050B	
580-19393-17	04HMMW	T	Solid	3050B	
Prep Batch: 580-64500					
LCS 580-64500/25-A	Lab Control Sample	T	Solid	7471A	
LCSD 580-64500/26-A	Lab Control Sample Duplicate	T	Solid	7471A	
LCSSRM 580-64500/27-A	LCS-Standard Reference Material	T	Solid	7471A	
MB 580-64500/24-A	Method Blank	T	Solid	7471A	
580-19393-17	04HMMW	T	Solid	7471A	
580-19393-17DU	Duplicate	T	Solid	7471A	
580-19393-17MS	Matrix Spike	T	Solid	7471A	
580-19393-17MSD	Matrix Spike Duplicate	T	Solid	7471A	
580-19393-18	05HMSB	T	Solid	7471A	
580-19393-19	07HMMWB	T	Solid	7471A	
580-19393-20	08HMSB	T	Solid	7471A	

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 580-64514					
LCS 580-64514/22-A	Lab Control Sample	T	Solid	3050B	
LCSD 580-64514/23-A	Lab Control Sample Duplicate	T	Solid	3050B	
LCSSRM 580-64514/24-A	LCS-Standard Reference Material	T	Solid	3050B	
MB 580-64514/21-A	Method Blank	T	Solid	3050B	
580-19393-18	05HMSB	T	Solid	3050B	
580-19393-18DU	Duplicate	T	Solid	3050B	
580-19393-18MS	Matrix Spike	T	Solid	3050B	
580-19393-18MSD	Matrix Spike Duplicate	T	Solid	3050B	
580-19393-19	07HMMWB	T	Solid	3050B	
580-19393-20	08HMSB	T	Solid	3050B	
580-19393-21	09SMMW	T	Solid	3050B	
Analysis Batch:580-64554					
LCS 580-64500/25-A	Lab Control Sample	T	Solid	7471A	580-64500
LCSD 580-64500/26-A	Lab Control Sample Duplicate	T	Solid	7471A	580-64500
LCSSRM 580-64500/27-A	LCS-Standard Reference Material	T	Solid	7471A	580-64500
MB 580-64500/24-A	Method Blank	T	Solid	7471A	580-64500
580-19393-17	04HMMW	T	Solid	7471A	580-64500
580-19393-17DU	Duplicate	T	Solid	7471A	580-64500
580-19393-17MS	Matrix Spike	T	Solid	7471A	580-64500
580-19393-17MSD	Matrix Spike Duplicate	T	Solid	7471A	580-64500
580-19393-18	05HMSB	T	Solid	7471A	580-64500
580-19393-19	07HMMWB	T	Solid	7471A	580-64500
580-19393-20	08HMSB	T	Solid	7471A	580-64500

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:580-64718					
LCS 580-64447/22-A	Lab Control Sample	T	Solid	6020	580-64447
LCSD 580-64447/23-A	Lab Control Sample Duplicate	T	Solid	6020	580-64447
LCSSRM 580-64447/24-A	LCS-Standard Reference Material	T	Solid	6020	580-64447
MB 580-64447/21-A	Method Blank	T	Solid	6020	580-64447
LCS 580-64514/22-A	Lab Control Sample	T	Solid	6020	580-64514
LCSD 580-64514/23-A	Lab Control Sample Duplicate	T	Solid	6020	580-64514
LCSSRM 580-64514/24-A	LCS-Standard Reference Material	T	Solid	6020	580-64514
MB 580-64514/21-A	Method Blank	T	Solid	6020	580-64514
580-19393-1	01CMMW	T	Solid	6020	580-64447
580-19393-1DU	Duplicate	T	Solid	6020	580-64447
580-19393-1MS	Matrix Spike	T	Solid	6020	580-64447
580-19393-1MSD	Matrix Spike Duplicate	T	Solid	6020	580-64447
580-19393-2	02CMSB	T	Solid	6020	580-64447
580-19393-3	03CMMW	T	Solid	6020	580-64447
580-19393-4	04CMSB	T	Solid	6020	580-64447
580-19393-5	05CMMW	T	Solid	6020	580-64447
580-19393-6	06CMSB	T	Solid	6020	580-64447
580-19393-7	07CMMW	T	Solid	6020	580-64447
580-19393-8	01SMMW	T	Solid	6020	580-64447
580-19393-9	02SMSB	T	Solid	6020	580-64447
580-19393-10	04SMMW	T	Solid	6020	580-64447
580-19393-11	05SMSB-B	T	Solid	6020	580-64447
580-19393-12	06SMMW- B	T	Solid	6020	580-64447
580-19393-13	07SMMW	T	Solid	6020	580-64447
580-19393-14	08SMSB	T	Solid	6020	580-64447
580-19393-15	01HMMW	T	Solid	6020	580-64447
580-19393-16	02HMSB	T	Solid	6020	580-64447
580-19393-17	04HMMW	T	Solid	6020	580-64447
580-19393-18	05HMSB	T	Solid	6020	580-64514
580-19393-18DU	Duplicate	T	Solid	6020	580-64514
580-19393-18MS	Matrix Spike	T	Solid	6020	580-64514
580-19393-18MSD	Matrix Spike Duplicate	T	Solid	6020	580-64514
580-19393-19	07HMMWB	T	Solid	6020	580-64514
580-19393-20	08HMSB	T	Solid	6020	580-64514
580-19393-21	09SMMW	T	Solid	6020	580-64514

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:580-64756					
LCS 580-64447/22-A	Lab Control Sample	T	Solid	6020	580-64447
LCSD 580-64447/23-A	Lab Control Sample Duplicate	T	Solid	6020	580-64447
LCSSRM 580-64447/24-A	LCS-Standard Reference Material	T	Solid	6020	580-64447
MB 580-64447/21-A	Method Blank	T	Solid	6020	580-64447
LCS 580-64514/22-A	Lab Control Sample	T	Solid	6020	580-64514
LCSD 580-64514/23-A	Lab Control Sample Duplicate	T	Solid	6020	580-64514
LCSSRM 580-64514/24-A	LCS-Standard Reference Material	T	Solid	6020	580-64514
MB 580-64514/21-A	Method Blank	T	Solid	6020	580-64514
580-19393-1	01CMMW	T	Solid	6020	580-64447
580-19393-1DU	Duplicate	T	Solid	6020	580-64447
580-19393-1MS	Matrix Spike	T	Solid	6020	580-64447
580-19393-1MSD	Matrix Spike Duplicate	T	Solid	6020	580-64447
580-19393-2	02CMSB	T	Solid	6020	580-64447
580-19393-3	03CMMW	T	Solid	6020	580-64447
580-19393-4	04CMSB	T	Solid	6020	580-64447
580-19393-5	05CMMW	T	Solid	6020	580-64447
580-19393-6	06CMSB	T	Solid	6020	580-64447
580-19393-7	07CMMW	T	Solid	6020	580-64447
580-19393-8	01SMMW	T	Solid	6020	580-64447
580-19393-9	02SMSB	T	Solid	6020	580-64447
580-19393-10	04SMMW	T	Solid	6020	580-64447
580-19393-11	05SMSB-B	T	Solid	6020	580-64447
580-19393-12	06SMMW- B	T	Solid	6020	580-64447
580-19393-13	07SMMW	T	Solid	6020	580-64447
580-19393-14	08SMSB	T	Solid	6020	580-64447
580-19393-15	01HMMW	T	Solid	6020	580-64447
580-19393-16	02HMSB	T	Solid	6020	580-64447
580-19393-17	04HMMW	T	Solid	6020	580-64447
580-19393-18	05HMSB	T	Solid	6020	580-64514
580-19393-18DU	Duplicate	T	Solid	6020	580-64514
580-19393-18MS	Matrix Spike	T	Solid	6020	580-64514
580-19393-18MSD	Matrix Spike Duplicate	T	Solid	6020	580-64514
580-19393-19	07HMMWB	T	Solid	6020	580-64514
580-19393-20	08HMSB	T	Solid	6020	580-64514
580-19393-21	09SMMW	T	Solid	6020	580-64514

Report Basis
T = Total

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:580-64333					
580-19393-18	05HMSB	T	Solid	Moisture	
Analysis Batch:580-64347					
580-19393-1	01CMMW	T	Solid	Moisture	
580-19393-2	02CMSB	T	Solid	Moisture	
580-19393-3	03CMMW	T	Solid	Moisture	
580-19393-3DU	Duplicate	T	Solid	Moisture	
580-19393-4	04CMSB	T	Solid	Moisture	
580-19393-5	05CMMW	T	Solid	Moisture	
580-19393-6	06CMSB	T	Solid	Moisture	
580-19393-7	07CMMW	T	Solid	Moisture	
580-19393-8	01SMMW	T	Solid	Moisture	
580-19393-9	02SMSB	T	Solid	Moisture	
580-19393-10	04SMMW	T	Solid	Moisture	
580-19393-11	05SMSB-B	T	Solid	Moisture	
580-19393-12	06SMMW- B	T	Solid	Moisture	
580-19393-13	07SMMW	T	Solid	Moisture	
580-19393-14	08SMSB	T	Solid	Moisture	
580-19393-15	01HMMW	T	Solid	Moisture	
580-19393-16	02HMSB	T	Solid	Moisture	
580-19393-17	04HMMW	T	Solid	Moisture	
580-19393-19	07HMMWB	T	Solid	Moisture	
580-19393-20	08HMSB	T	Solid	Moisture	
580-19393-21	09SMMW	T	Solid	Moisture	

Report Basis

T = Total

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Tacoma Job Number: 580-19393-1

SDG No.:

Project: Contact & Sonoma Mine Sites

Client Sample ID	Lab Sample ID
01CMMW	580-19393-1
02CMSB	580-19393-2
03CMMW	580-19393-3
04CMSB	580-19393-4
05CMMW	580-19393-5
06CMSB	580-19393-6
07CMMW	580-19393-7
01SMMW	580-19393-8
02SMSB	580-19393-9
04SMMW	580-19393-10
05SMSB-B	580-19393-11
06SMMW- B	580-19393-12
07SMMW	580-19393-13
08SMSB	580-19393-14
01HMMW	580-19393-15
02HMSB	580-19393-16
04HMMW	580-19393-17
05HMSB	580-19393-18
07HMMWB	580-19393-19
08HMSB	580-19393-20
09SMMW	580-19393-21

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 01CMMW
Lab Sample ID: 580-19393-1
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/02/2010 10:40
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 87.5

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	10	0.19	0.0038	mg/Kg		^	10	6020
7440-36-0	Antimony	0.73	0.19	0.063	mg/Kg		^	10	6020
7440-39-3	Barium	330	0.19	0.014	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.82	0.19	0.0066	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.19	0.0045	mg/Kg			10	6020
7440-47-3	Chromium	210	0.19	0.038	mg/Kg		^	10	6020
7439-92-1	Lead	12	0.19	0.010	mg/Kg			10	6020
7440-48-4	Cobalt	25	0.19	0.0051	mg/Kg		^	10	6020
7440-50-8	Copper	44	0.19	0.031	mg/Kg		^	10	6020
7439-89-6	Iron	41000	19	3.3	mg/Kg			10	6020
7439-96-5	Manganese	680	0.48	0.15	mg/Kg		^	10	6020
7440-02-0	Nickel	250	0.19	0.035	mg/Kg		^	10	6020
7782-49-2	Selenium	0.75	0.48	0.0038	mg/Kg		^	10	6020
7440-22-4	Silver	ND	0.19	0.0039	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.38	0.038	mg/Kg			10	6020
7440-62-2	Vanadium	72	0.19	0.026	mg/Kg			10	6020
7440-66-6	Zinc	70	0.67	0.14	mg/Kg		^	10	6020
7429-90-5	Aluminum	24000	29	2.9	mg/Kg			10	6020
7439-95-4	Magnesium	26000	96	2.5	mg/Kg			10	6020
7440-09-7	Potassium	1000	96	3.2	mg/Kg			10	6020
7440-23-5	Sodium	ND	96	38	mg/Kg			10	6020
7440-70-2	Calcium	12000	96	8.5	mg/Kg			10	6020
7439-97-6	Mercury	0.071	0.019	0.0059	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 02CMSB
Lab Sample ID: 580-19393-2
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/26/2010 12:26
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 92.4

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	8.4	0.21	0.0043	mg/Kg		^	10	6020
7440-36-0	Antimony	0.42	0.21	0.070	mg/Kg		^	10	6020
7440-39-3	Barium	140	0.21	0.016	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.63	0.21	0.0074	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.21	0.0050	mg/Kg			10	6020
7440-47-3	Chromium	200	0.21	0.043	mg/Kg		^	10	6020
7439-92-1	Lead	8.8	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	27	0.21	0.0057	mg/Kg		^	10	6020
7440-50-8	Copper	28	0.21	0.034	mg/Kg		^	10	6020
7439-89-6	Iron	34000	21	3.7	mg/Kg			10	6020
7439-96-5	Manganese	480	0.54	0.17	mg/Kg		^	10	6020
7440-02-0	Nickel	380	0.21	0.039	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.54	0.0043	mg/Kg			10	6020
7440-22-4	Silver	ND	0.21	0.0044	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.43	0.043	mg/Kg			10	6020
7440-62-2	Vanadium	33	0.21	0.029	mg/Kg			10	6020
7440-66-6	Zinc	59	0.75	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	7700	32	3.2	mg/Kg			10	6020
7439-95-4	Magnesium	34000	110	2.8	mg/Kg			10	6020
7440-09-7	Potassium	1300	110	3.5	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	42	mg/Kg			10	6020
7440-70-2	Calcium	3800	110	9.5	mg/Kg			10	6020
7439-97-6	Mercury	300	21	6.7	mg/Kg		H	1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 03CMMW
Lab Sample ID: 580-19393-3
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/27/2010 08:30
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 80.5

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.9	0.21	0.0043	mg/Kg		^	10	6020
7440-36-0	Antimony	0.41	0.21	0.070	mg/Kg		^	10	6020
7440-39-3	Barium	220	0.21	0.016	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.67	0.21	0.0074	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.21	0.0050	mg/Kg			10	6020
7440-47-3	Chromium	420	0.21	0.043	mg/Kg		^	10	6020
7439-92-1	Lead	9.1	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	36	0.21	0.0057	mg/Kg		^	10	6020
7440-50-8	Copper	39	0.21	0.034	mg/Kg		^	10	6020
7439-89-6	Iron	41000	21	3.7	mg/Kg			10	6020
7439-96-5	Manganese	680	0.53	0.17	mg/Kg		^	10	6020
7440-02-0	Nickel	530	0.21	0.039	mg/Kg		^	10	6020
7782-49-2	Selenium	0.93	0.53	0.0043	mg/Kg			10	6020
7440-22-4	Silver	ND	0.21	0.0044	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.43	0.043	mg/Kg			10	6020
7440-62-2	Vanadium	60	0.21	0.028	mg/Kg			10	6020
7440-66-6	Zinc	69	0.75	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	23000	32	3.2	mg/Kg			10	6020
7439-95-4	Magnesium	51000	110	2.8	mg/Kg			10	6020
7440-09-7	Potassium	990	110	3.5	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	42	mg/Kg			10	6020
7440-70-2	Calcium	13000	110	9.5	mg/Kg			10	6020
7439-97-6	Mercury	9.2	0.19	0.060	mg/Kg		H	10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 04CMSB
Lab Sample ID: 580-19393-4
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/02/2010 13:25
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 90.4

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	5.6	0.17	0.0034	mg/Kg		^	10	6020
7440-36-0	Antimony	0.38	0.17	0.056	mg/Kg		^	10	6020
7440-39-3	Barium	220	0.17	0.013	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.50	0.17	0.0059	mg/Kg			10	6020
7440-43-9	Cadmium	0.19	0.17	0.0040	mg/Kg			10	6020
7440-47-3	Chromium	230	0.17	0.034	mg/Kg		^	10	6020
7439-92-1	Lead	6.8	0.17	0.0089	mg/Kg			10	6020
7440-48-4	Cobalt	39	0.17	0.0046	mg/Kg		^	10	6020
7440-50-8	Copper	64	0.17	0.027	mg/Kg		^	10	6020
7439-89-6	Iron	44000	17	2.9	mg/Kg			10	6020
7439-96-5	Manganese	1700	0.43	0.13	mg/Kg		^	10	6020
7440-02-0	Nickel	470	0.17	0.031	mg/Kg		^	10	6020
7782-49-2	Selenium	0.54	0.43	0.0034	mg/Kg			10	6020
7440-22-4	Silver	ND	0.17	0.0035	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.34	0.034	mg/Kg			10	6020
7440-62-2	Vanadium	57	0.17	0.023	mg/Kg			10	6020
7440-66-6	Zinc	67	0.60	0.13	mg/Kg		^	10	6020
7429-90-5	Aluminum	8400	26	2.6	mg/Kg			10	6020
7439-95-4	Magnesium	41000	85	2.3	mg/Kg			10	6020
7440-09-7	Potassium	650	85	2.8	mg/Kg			10	6020
7440-23-5	Sodium	ND	85	33	mg/Kg			10	6020
7440-70-2	Calcium	5400	85	7.6	mg/Kg			10	6020
7439-97-6	Mercury	3.6	0.18	0.056	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 05CMMW
Lab Sample ID: 580-19393-5
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/03/2010 09:30
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 77.1

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	11	0.20	0.0041	mg/Kg		^	10	6020
7440-36-0	Antimony	0.60	0.20	0.067	mg/Kg		^	10	6020
7440-39-3	Barium	200	0.20	0.015	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.67	0.20	0.0070	mg/Kg			10	6020
7440-43-9	Cadmium	0.22	0.20	0.0047	mg/Kg			10	6020
7440-47-3	Chromium	310	0.20	0.041	mg/Kg		^	10	6020
7439-92-1	Lead	11	0.20	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	39	0.20	0.0054	mg/Kg		^	10	6020
7440-50-8	Copper	43	0.20	0.033	mg/Kg		^	10	6020
7439-89-6	Iron	46000	20	3.5	mg/Kg			10	6020
7439-96-5	Manganese	680	0.51	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	470	0.20	0.037	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.51	0.0041	mg/Kg			10	6020
7440-22-4	Silver	ND	0.20	0.0042	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.41	0.041	mg/Kg			10	6020
7440-62-2	Vanadium	74	0.20	0.027	mg/Kg			10	6020
7440-66-6	Zinc	74	0.71	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	29000	30	3.0	mg/Kg			10	6020
7439-95-4	Magnesium	51000	100	2.7	mg/Kg			10	6020
7440-09-7	Potassium	1100	100	3.4	mg/Kg			10	6020
7440-23-5	Sodium	140	100	40	mg/Kg			10	6020
7440-70-2	Calcium	7300	100	9.0	mg/Kg			10	6020
7439-97-6	Mercury	0.13	0.023	0.0072	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 06CMSB
Lab Sample ID: 580-19393-6
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/03/2010 13:00
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 77.4

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	5.6	0.18	0.0035	mg/Kg		^	10	6020
7440-36-0	Antimony	0.36	0.18	0.058	mg/Kg		^	10	6020
7440-39-3	Barium	180	0.18	0.013	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.54	0.18	0.0061	mg/Kg			10	6020
7440-43-9	Cadmium	0.22	0.18	0.0041	mg/Kg			10	6020
7440-47-3	Chromium	130	0.18	0.035	mg/Kg		^	10	6020
7439-92-1	Lead	9.2	0.18	0.0092	mg/Kg			10	6020
7440-48-4	Cobalt	22	0.18	0.0047	mg/Kg		^	10	6020
7440-50-8	Copper	29	0.18	0.028	mg/Kg		^	10	6020
7439-89-6	Iron	30000	18	3.0	mg/Kg			10	6020
7439-96-5	Manganese	540	0.44	0.14	mg/Kg		^	10	6020
7440-02-0	Nickel	240	0.18	0.032	mg/Kg		^	10	6020
7782-49-2	Selenium	0.53	0.44	0.0035	mg/Kg			10	6020
7440-22-4	Silver	ND	0.18	0.0036	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.35	0.035	mg/Kg			10	6020
7440-62-2	Vanadium	45	0.18	0.024	mg/Kg			10	6020
7440-66-6	Zinc	87	0.62	0.13	mg/Kg		^	10	6020
7429-90-5	Aluminum	16000	26	2.6	mg/Kg			10	6020
7439-95-4	Magnesium	21000	88	2.3	mg/Kg			10	6020
7440-09-7	Potassium	1100	88	2.9	mg/Kg			10	6020
7440-23-5	Sodium	ND	88	35	mg/Kg			10	6020
7440-70-2	Calcium	3000	88	7.8	mg/Kg			10	6020
7439-97-6	Mercury	2.8	0.18	0.056	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07CMMW
Lab Sample ID: 580-19393-7
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/02/2010 16:14
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 92.8

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	5.7	0.18	0.0036	mg/Kg		^	10	6020
7440-36-0	Antimony	0.33	0.18	0.059	mg/Kg		^	10	6020
7440-39-3	Barium	290	0.18	0.013	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.58	0.18	0.0062	mg/Kg			10	6020
7440-43-9	Cadmium	0.25	0.18	0.0042	mg/Kg			10	6020
7440-47-3	Chromium	150	0.18	0.036	mg/Kg		^	10	6020
7439-92-1	Lead	10	0.18	0.0094	mg/Kg			10	6020
7440-48-4	Cobalt	27	0.18	0.0048	mg/Kg		^	10	6020
7440-50-8	Copper	38	0.18	0.029	mg/Kg		^	10	6020
7439-89-6	Iron	33000	18	3.1	mg/Kg			10	6020
7439-96-5	Manganese	560	0.45	0.14	mg/Kg		^	10	6020
7440-02-0	Nickel	360	0.18	0.033	mg/Kg		^	10	6020
7782-49-2	Selenium	0.81	0.45	0.0036	mg/Kg			10	6020
7440-22-4	Silver	ND	0.18	0.0037	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.36	0.036	mg/Kg			10	6020
7440-62-2	Vanadium	36	0.18	0.024	mg/Kg			10	6020
7440-66-6	Zinc	67	0.63	0.14	mg/Kg		^	10	6020
7429-90-5	Aluminum	13000	27	2.7	mg/Kg			10	6020
7439-95-4	Magnesium	33000	91	2.4	mg/Kg			10	6020
7440-09-7	Potassium	1600	91	3.0	mg/Kg			10	6020
7440-23-5	Sodium	ND	91	35	mg/Kg			10	6020
7440-70-2	Calcium	5000	91	8.0	mg/Kg			10	6020
7439-97-6	Mercury	45	18	5.6	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 01SMMW
Lab Sample ID: 580-19393-8
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/23/2010 14:58
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 83.4

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	12	0.18	0.0036	mg/Kg		^	10	6020
7440-36-0	Antimony	0.74	0.18	0.059	mg/Kg		^	10	6020
7440-39-3	Barium	260	0.18	0.013	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.69	0.18	0.0061	mg/Kg			10	6020
7440-43-9	Cadmium	0.21	0.18	0.0042	mg/Kg			10	6020
7440-47-3	Chromium	200	0.18	0.036	mg/Kg		^	10	6020
7439-92-1	Lead	12	0.18	0.0093	mg/Kg			10	6020
7440-48-4	Cobalt	34	0.18	0.0048	mg/Kg		^	10	6020
7440-50-8	Copper	47	0.18	0.029	mg/Kg		^	10	6020
7439-89-6	Iron	47000	18	3.1	mg/Kg			10	6020
7439-96-5	Manganese	920	0.45	0.14	mg/Kg		^	10	6020
7440-02-0	Nickel	430	0.18	0.033	mg/Kg		^	10	6020
7782-49-2	Selenium	0.77	0.45	0.0036	mg/Kg			10	6020
7440-22-4	Silver	ND	0.18	0.0037	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.36	0.036	mg/Kg			10	6020
7440-62-2	Vanadium	60	0.18	0.024	mg/Kg			10	6020
7440-66-6	Zinc	75	0.62	0.13	mg/Kg		^	10	6020
7429-90-5	Aluminum	23000	27	2.7	mg/Kg			10	6020
7439-95-4	Magnesium	25000	89	2.4	mg/Kg			10	6020
7440-09-7	Potassium	1100	89	2.9	mg/Kg			10	6020
7440-23-5	Sodium	ND	89	35	mg/Kg			10	6020
7440-70-2	Calcium	5300	89	7.9	mg/Kg			10	6020
7439-97-6	Mercury	72	17	5.4	mg/Kg		H	1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 02SMSB
Lab Sample ID: 580-19393-9
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/24/2010 11:30
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 81.2

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	9.9	0.20	0.0040	mg/Kg		^	10	6020
7440-36-0	Antimony	0.69	0.20	0.066	mg/Kg		^	10	6020
7440-39-3	Barium	120	0.20	0.015	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.51	0.20	0.0069	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.20	0.0047	mg/Kg			10	6020
7440-47-3	Chromium	210	0.20	0.040	mg/Kg		^	10	6020
7439-92-1	Lead	10	0.20	0.010	mg/Kg			10	6020
7440-48-4	Cobalt	46	0.20	0.0054	mg/Kg		^	10	6020
7440-50-8	Copper	34	0.20	0.032	mg/Kg		^	10	6020
7439-89-6	Iron	44000	20	3.5	mg/Kg			10	6020
7439-96-5	Manganese	600	0.50	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	770	0.20	0.037	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.50	0.0040	mg/Kg			10	6020
7440-22-4	Silver	ND	0.20	0.0041	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.40	0.040	mg/Kg			10	6020
7440-62-2	Vanadium	45	0.20	0.027	mg/Kg			10	6020
7440-66-6	Zinc	63	0.70	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	14000	30	3.0	mg/Kg			10	6020
7439-95-4	Magnesium	28000	100	2.6	mg/Kg			10	6020
7440-09-7	Potassium	1100	100	3.3	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	39	mg/Kg			10	6020
7440-70-2	Calcium	2800	100	8.9	mg/Kg			10	6020
7439-97-6	Mercury	380	23	7.3	mg/Kg		H	1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 04SMMW
Lab Sample ID: 580-19393-10
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/25/2010 07:53
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 75.5

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	6.7	0.21	0.0043	mg/Kg		^	10	6020
7440-36-0	Antimony	0.40	0.21	0.070	mg/Kg		^	10	6020
7440-39-3	Barium	180	0.21	0.016	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.50	0.21	0.0074	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.21	0.0050	mg/Kg			10	6020
7440-47-3	Chromium	370	0.21	0.043	mg/Kg		^	10	6020
7439-92-1	Lead	9.6	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	57	0.21	0.0057	mg/Kg		^	10	6020
7440-50-8	Copper	32	0.21	0.034	mg/Kg		^	10	6020
7439-89-6	Iron	52000	21	3.7	mg/Kg			10	6020
7439-96-5	Manganese	820	0.53	0.17	mg/Kg		^	10	6020
7440-02-0	Nickel	1000	0.21	0.039	mg/Kg		^	10	6020
7782-49-2	Selenium	0.84	0.53	0.0043	mg/Kg			10	6020
7440-22-4	Silver	ND	0.21	0.0044	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.43	0.043	mg/Kg			10	6020
7440-62-2	Vanadium	56	0.21	0.029	mg/Kg			10	6020
7440-66-6	Zinc	65	0.75	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	19000	32	3.2	mg/Kg			10	6020
7439-95-4	Magnesium	48000	110	2.8	mg/Kg			10	6020
7440-09-7	Potassium	830	110	3.5	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	42	mg/Kg			10	6020
7440-70-2	Calcium	1700	110	9.5	mg/Kg			10	6020
7439-97-6	Mercury	240	23	7.1	mg/Kg		H	1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 05SMSB-B
Lab Sample ID: 580-19393-11
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/26/2010 09:10
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 73.5

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	12	0.26	0.0051	mg/Kg		^	10	6020
7440-36-0	Antimony	0.98	0.26	0.084	mg/Kg		^	10	6020
7440-39-3	Barium	290	0.26	0.019	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.55	0.26	0.0088	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.26	0.0060	mg/Kg			10	6020
7440-47-3	Chromium	490	0.26	0.051	mg/Kg		^	10	6020
7439-92-1	Lead	24	0.26	0.013	mg/Kg			10	6020
7440-48-4	Cobalt	35	0.26	0.0068	mg/Kg		^	10	6020
7440-50-8	Copper	54	0.26	0.041	mg/Kg		^	10	6020
7439-89-6	Iron	58000	26	4.4	mg/Kg			10	6020
7439-96-5	Manganese	770	0.64	0.20	mg/Kg		^	10	6020
7440-02-0	Nickel	320	0.26	0.047	mg/Kg		^	10	6020
7782-49-2	Selenium	1.9	0.64	0.0051	mg/Kg			10	6020
7440-22-4	Silver	ND	0.26	0.0052	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.51	0.051	mg/Kg			10	6020
7440-62-2	Vanadium	59	0.26	0.034	mg/Kg			10	6020
7440-66-6	Zinc	88	0.90	0.19	mg/Kg		^	10	6020
7429-90-5	Aluminum	19000	38	3.8	mg/Kg			10	6020
7439-95-4	Magnesium	12000	130	3.4	mg/Kg			10	6020
7440-09-7	Potassium	1300	130	4.2	mg/Kg			10	6020
7440-23-5	Sodium	ND	130	50	mg/Kg			10	6020
7440-70-2	Calcium	23000	130	11	mg/Kg			10	6020
7439-97-6	Mercury	950	170	54	mg/Kg		H	10000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 06SMMW- B
Lab Sample ID: 580-19393-12
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/26/2010 07:45
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 80.0

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	11	0.19	0.0038	mg/Kg		^	10	6020
7440-36-0	Antimony	0.78	0.19	0.063	mg/Kg		^	10	6020
7440-39-3	Barium	140	0.19	0.014	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.62	0.19	0.0066	mg/Kg			10	6020
7440-43-9	Cadmium	0.20	0.19	0.0045	mg/Kg			10	6020
7440-47-3	Chromium	130	0.19	0.038	mg/Kg		^	10	6020
7439-92-1	Lead	11	0.19	0.010	mg/Kg			10	6020
7440-48-4	Cobalt	36	0.19	0.0051	mg/Kg		^	10	6020
7440-50-8	Copper	49	0.19	0.031	mg/Kg		^	10	6020
7439-89-6	Iron	46000	19	3.3	mg/Kg			10	6020
7439-96-5	Manganese	730	0.48	0.15	mg/Kg		^	10	6020
7440-02-0	Nickel	480	0.19	0.035	mg/Kg		^	10	6020
7782-49-2	Selenium	0.60	0.48	0.0038	mg/Kg			10	6020
7440-22-4	Silver	ND	0.19	0.0039	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.38	0.038	mg/Kg			10	6020
7440-62-2	Vanadium	46	0.19	0.026	mg/Kg			10	6020
7440-66-6	Zinc	76	0.67	0.14	mg/Kg		^	10	6020
7429-90-5	Aluminum	13000	29	2.9	mg/Kg			10	6020
7439-95-4	Magnesium	15000	96	2.5	mg/Kg			10	6020
7440-09-7	Potassium	1100	96	3.2	mg/Kg			10	6020
7440-23-5	Sodium	ND	96	38	mg/Kg			10	6020
7440-70-2	Calcium	6100	96	8.5	mg/Kg			10	6020
7439-97-6	Mercury	4.4	0.16	0.051	mg/Kg		H	10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07SMMW
Lab Sample ID: 580-19393-13
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/02/2010 08:30
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 87.4

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	11	0.19	0.0039	mg/Kg		^	10	6020
7440-36-0	Antimony	0.81	0.19	0.063	mg/Kg		^	10	6020
7440-39-3	Barium	140	0.19	0.014	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.56	0.19	0.0066	mg/Kg			10	6020
7440-43-9	Cadmium	0.19	0.19	0.0045	mg/Kg			10	6020
7440-47-3	Chromium	71	0.19	0.039	mg/Kg		^	10	6020
7439-92-1	Lead	11	0.19	0.010	mg/Kg			10	6020
7440-48-4	Cobalt	28	0.19	0.0052	mg/Kg		^	10	6020
7440-50-8	Copper	46	0.19	0.031	mg/Kg		^	10	6020
7439-89-6	Iron	44000	19	3.3	mg/Kg			10	6020
7439-96-5	Manganese	650	0.48	0.15	mg/Kg		^	10	6020
7440-02-0	Nickel	460	0.19	0.035	mg/Kg		^	10	6020
7782-49-2	Selenium	0.63	0.48	0.0039	mg/Kg			10	6020
7440-22-4	Silver	ND	0.19	0.0040	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.39	0.039	mg/Kg			10	6020
7440-62-2	Vanadium	48	0.19	0.026	mg/Kg			10	6020
7440-66-6	Zinc	80	0.67	0.14	mg/Kg		^	10	6020
7429-90-5	Aluminum	4300	29	2.9	mg/Kg			10	6020
7439-95-4	Magnesium	16000	96	2.5	mg/Kg			10	6020
7440-09-7	Potassium	950	96	3.2	mg/Kg			10	6020
7440-23-5	Sodium	ND	96	38	mg/Kg			10	6020
7440-70-2	Calcium	17000	96	8.5	mg/Kg			10	6020
7439-97-6	Mercury	2.8	0.18	0.056	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 08SMSB
Lab Sample ID: 580-19393-14
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/25/2010 15:17
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 76.0

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	13	0.17	0.0033	mg/Kg		^	10	6020
7440-36-0	Antimony	1.0	0.17	0.055	mg/Kg		^	10	6020
7440-39-3	Barium	360	0.17	0.012	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.69	0.17	0.0057	mg/Kg			10	6020
7440-43-9	Cadmium	0.22	0.17	0.0039	mg/Kg			10	6020
7440-47-3	Chromium	50	0.17	0.033	mg/Kg		^	10	6020
7439-92-1	Lead	16	0.17	0.0086	mg/Kg			10	6020
7440-48-4	Cobalt	47	0.17	0.0044	mg/Kg		^	10	6020
7440-50-8	Copper	42	0.17	0.027	mg/Kg		^	10	6020
7439-89-6	Iron	43000	17	2.9	mg/Kg			10	6020
7439-96-5	Manganese	2100	0.42	0.13	mg/Kg		^	10	6020
7440-02-0	Nickel	530	0.17	0.031	mg/Kg		^	10	6020
7782-49-2	Selenium	0.65	0.42	0.0033	mg/Kg			10	6020
7440-22-4	Silver	ND	0.17	0.0034	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.33	0.033	mg/Kg			10	6020
7440-62-2	Vanadium	31	0.17	0.022	mg/Kg			10	6020
7440-66-6	Zinc	76	0.58	0.12	mg/Kg		^	10	6020
7429-90-5	Aluminum	8000	25	2.5	mg/Kg			10	6020
7439-95-4	Magnesium	9400	83	2.2	mg/Kg			10	6020
7440-09-7	Potassium	1200	83	2.8	mg/Kg			10	6020
7440-23-5	Sodium	ND	83	33	mg/Kg			10	6020
7440-70-2	Calcium	3300	83	7.4	mg/Kg			10	6020
7439-97-6	Mercury	4.1	0.22	0.069	mg/Kg		H	10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 01HMMW
Lab Sample ID: 580-19393-15
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/08/2010 11:40
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 73.0

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	3.3	0.23	0.0046	mg/Kg		^	10	6020
7440-36-0	Antimony	0.27	0.23	0.075	mg/Kg		^	10	6020
7440-39-3	Barium	69	0.23	0.017	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.49	0.23	0.0079	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.23	0.0054	mg/Kg			10	6020
7440-47-3	Chromium	310	0.23	0.046	mg/Kg		^	10	6020
7439-92-1	Lead	4.7	0.23	0.012	mg/Kg			10	6020
7440-48-4	Cobalt	100	0.23	0.0061	mg/Kg		^	10	6020
7440-50-8	Copper	22	0.23	0.037	mg/Kg		^	10	6020
7439-89-6	Iron	57000	23	4.0	mg/Kg			10	6020
7439-96-5	Manganese	830	0.57	0.18	mg/Kg		^	10	6020
7440-02-0	Nickel	2000	0.23	0.042	mg/Kg		^	10	6020
7782-49-2	Selenium	0.57	0.57	0.0046	mg/Kg			10	6020
7440-22-4	Silver	ND	0.23	0.0047	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.46	0.046	mg/Kg			10	6020
7440-62-2	Vanadium	26	0.23	0.031	mg/Kg			10	6020
7440-66-6	Zinc	63	0.80	0.17	mg/Kg		^	10	6020
7429-90-5	Aluminum	8100	34	3.4	mg/Kg			10	6020
7439-95-4	Magnesium	94000	110	3.0	mg/Kg			10	6020
7440-09-7	Potassium	610	110	3.8	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	45	mg/Kg			10	6020
7440-70-2	Calcium	2900	110	10	mg/Kg			10	6020
7439-97-6	Mercury	91	26	8.2	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 02HMSB
Lab Sample ID: 580-19393-16
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/08/2010 08:38
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 73.5

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	3.5	0.20	0.0041	mg/Kg		^	10	6020
7440-36-0	Antimony	4.4	0.20	0.067	mg/Kg		^	10	6020
7440-39-3	Barium	130	0.20	0.015	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.40	0.20	0.0070	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.20	0.0048	mg/Kg			10	6020
7440-47-3	Chromium	320	0.20	0.041	mg/Kg		^	10	6020
7439-92-1	Lead	6.8	0.20	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	94	0.20	0.0054	mg/Kg		^	10	6020
7440-50-8	Copper	24	0.20	0.033	mg/Kg		^	10	6020
7439-89-6	Iron	65000	20	3.5	mg/Kg			10	6020
7439-96-5	Manganese	580	0.51	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	1500	0.20	0.037	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.51	0.0041	mg/Kg			10	6020
7440-22-4	Silver	ND	0.20	0.0042	mg/Kg			10	6020
7440-28-0	Thallium	0.55	0.41	0.041	mg/Kg			10	6020
7440-62-2	Vanadium	22	0.20	0.027	mg/Kg			10	6020
7440-66-6	Zinc	59	0.71	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	7600	30	3.0	mg/Kg			10	6020
7439-95-4	Magnesium	50000	100	2.7	mg/Kg			10	6020
7440-09-7	Potassium	550	100	3.4	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	40	mg/Kg			10	6020
7440-70-2	Calcium	3200	100	9.0	mg/Kg			10	6020
7439-97-6	Mercury	570	16	5.0	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 04HMMW
Lab Sample ID: 580-19393-17
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/08/2010 14:20
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 90.9

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	8.1	0.14	0.0028	mg/Kg		^	10	6020
7440-36-0	Antimony	0.57	0.14	0.046	mg/Kg		^	10	6020
7440-39-3	Barium	230	0.14	0.010	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.35	0.14	0.0048	mg/Kg			10	6020
7440-43-9	Cadmium	0.14	0.14	0.0032	mg/Kg			10	6020
7440-47-3	Chromium	150	0.14	0.028	mg/Kg		^	10	6020
7439-92-1	Lead	9.4	0.14	0.0072	mg/Kg			10	6020
7440-48-4	Cobalt	22	0.14	0.0037	mg/Kg		^	10	6020
7440-50-8	Copper	50	0.14	0.022	mg/Kg		^	10	6020
7439-89-6	Iron	34000	14	2.4	mg/Kg			10	6020
7439-96-5	Manganese	770	0.35	0.11	mg/Kg		^	10	6020
7440-02-0	Nickel	170	0.14	0.025	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.35	0.0028	mg/Kg			10	6020
7440-22-4	Silver	ND	0.14	0.0028	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.28	0.028	mg/Kg			10	6020
7440-62-2	Vanadium	53	0.14	0.019	mg/Kg			10	6020
7440-66-6	Zinc	64	0.49	0.10	mg/Kg		^	10	6020
7429-90-5	Aluminum	17000	21	2.1	mg/Kg			10	6020
7439-95-4	Magnesium	24000	69	1.8	mg/Kg			10	6020
7440-09-7	Potassium	970	69	2.3	mg/Kg			10	6020
7440-23-5	Sodium	ND	69	27	mg/Kg			10	6020
7440-70-2	Calcium	7200	69	6.2	mg/Kg			10	6020
7439-97-6	Mercury	3.1	0.13	0.042	mg/Kg			10	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 05HMSB
Lab Sample ID: 580-19393-18
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/11/2010 13:15
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 77.6

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.64	0.22	0.0043	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.22	0.071	mg/Kg		^	10	6020
7440-39-3	Barium	130	0.22	0.016	mg/Kg		^	10	6020
7440-41-7	Beryllium	ND	0.22	0.0075	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.22	0.0051	mg/Kg			10	6020
7440-47-3	Chromium	400	0.22	0.043	mg/Kg		^	10	6020
7439-92-1	Lead	1.3	0.22	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	93	0.22	0.0058	mg/Kg		^	10	6020
7440-50-8	Copper	5.4	0.22	0.035	mg/Kg		^	10	6020
7439-89-6	Iron	43000	22	3.7	mg/Kg			10	6020
7439-96-5	Manganese	270	0.54	0.17	mg/Kg		^	10	6020
7440-02-0	Nickel	1700	0.22	0.040	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.54	0.0043	mg/Kg			10	6020
7440-22-4	Silver	ND	0.22	0.0044	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.43	0.043	mg/Kg			10	6020
7440-62-2	Vanadium	21	0.22	0.029	mg/Kg			10	6020
7440-66-6	Zinc	18	0.76	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	1900	33	3.3	mg/Kg			10	6020
7439-95-4	Magnesium	10000	110	2.9	mg/Kg			10	6020
7440-09-7	Potassium	130	110	3.6	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	43	mg/Kg			10	6020
7440-70-2	Calcium	170	110	9.6	mg/Kg			10	6020
7439-97-6	Mercury	24	20	6.4	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07HMMWB
Lab Sample ID: 580-19393-19
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/08/2010 15:56
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 88.4

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.19	0.0037	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.19	0.061	mg/Kg		^	10	6020
7440-39-3	Barium	0.37	0.19	0.014	mg/Kg		^	10	6020
7440-41-7	Beryllium	ND	0.19	0.0064	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.19	0.0043	mg/Kg			10	6020
7440-47-3	Chromium	1100	0.19	0.037	mg/Kg		^	10	6020
7439-92-1	Lead	ND	0.19	0.0097	mg/Kg			10	6020
7440-48-4	Cobalt	120	0.19	0.0050	mg/Kg		^	10	6020
7440-50-8	Copper	13	0.19	0.030	mg/Kg		^	10	6020
7439-89-6	Iron	50000	19	3.2	mg/Kg			10	6020
7439-96-5	Manganese	710	0.46	0.15	mg/Kg		^	10	6020
7440-02-0	Nickel	2200	0.19	0.034	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.46	0.0037	mg/Kg			10	6020
7440-22-4	Silver	ND	0.19	0.0038	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.37	0.037	mg/Kg			10	6020
7440-62-2	Vanadium	18	0.19	0.025	mg/Kg			10	6020
7440-66-6	Zinc	19	0.65	0.14	mg/Kg		^	10	6020
7429-90-5	Aluminum	1200	28	2.8	mg/Kg			10	6020
7439-95-4	Magnesium	200000	93	2.5	mg/Kg			10	6020
7440-09-7	Potassium	ND	93	3.1	mg/Kg			10	6020
7440-23-5	Sodium	ND	93	36	mg/Kg			10	6020
7440-70-2	Calcium	1400	93	8.2	mg/Kg			10	6020
7439-97-6	Mercury	0.095	0.015	0.0048	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 08HMSB
Lab Sample ID: 580-19393-20
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/07/2010 15:40
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 92.5

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.18	0.0037	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.18	0.060	mg/Kg		^	10	6020
7440-39-3	Barium	0.38	0.18	0.014	mg/Kg		^	10	6020
7440-41-7	Beryllium	ND	0.18	0.0063	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.18	0.0043	mg/Kg			10	6020
7440-47-3	Chromium	600	0.18	0.037	mg/Kg		^	10	6020
7439-92-1	Lead	ND	0.18	0.0095	mg/Kg			10	6020
7440-48-4	Cobalt	87	0.18	0.0049	mg/Kg		^	10	6020
7440-50-8	Copper	4.1	0.18	0.029	mg/Kg		^	10	6020
7439-89-6	Iron	48000	18	3.1	mg/Kg			10	6020
7439-96-5	Manganese	740	0.46	0.14	mg/Kg		^	10	6020
7440-02-0	Nickel	1700	0.18	0.034	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.46	0.0037	mg/Kg			10	6020
7440-22-4	Silver	ND	0.18	0.0037	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.37	0.037	mg/Kg			10	6020
7440-62-2	Vanadium	15	0.18	0.024	mg/Kg			10	6020
7440-66-6	Zinc	22	0.64	0.14	mg/Kg		^	10	6020
7429-90-5	Aluminum	1300	27	2.7	mg/Kg			10	6020
7439-95-4	Magnesium	200000	91	2.4	mg/Kg			10	6020
7440-09-7	Potassium	ND	91	3.0	mg/Kg			10	6020
7440-23-5	Sodium	ND	91	36	mg/Kg			10	6020
7440-70-2	Calcium	2300	91	8.1	mg/Kg			10	6020
7439-97-6	Mercury	ND	0.013	0.0042	mg/Kg			1	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 09SMMW
Lab Sample ID: 580-19393-21
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG ID.:
Matrix: Solid
Date Sampled: 04/25/2010 14:16
Reporting Basis: DRY
Date Received: 05/19/2010 09:07
% Solids: 79.3

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	7.6	0.25	0.0050	mg/Kg		^	10	6020
7440-36-0	Antimony	0.61	0.25	0.082	mg/Kg		^	10	6020
7440-39-3	Barium	240	0.25	0.019	mg/Kg		^	10	6020
7440-41-7	Beryllium	0.56	0.25	0.0086	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.25	0.0059	mg/Kg			10	6020
7440-47-3	Chromium	170	0.25	0.050	mg/Kg		^	10	6020
7439-92-1	Lead	9.4	0.25	0.013	mg/Kg			10	6020
7440-48-4	Cobalt	27	0.25	0.0067	mg/Kg		^	10	6020
7440-50-8	Copper	32	0.25	0.040	mg/Kg		^	10	6020
7439-89-6	Iron	34000	25	4.3	mg/Kg			10	6020
7439-96-5	Manganese	370	0.63	0.20	mg/Kg		^	10	6020
7440-02-0	Nickel	290	0.25	0.046	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.63	0.0050	mg/Kg			10	6020
7440-22-4	Silver	ND	0.25	0.0051	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.50	0.050	mg/Kg			10	6020
7440-62-2	Vanadium	50	0.25	0.033	mg/Kg			10	6020
7440-66-6	Zinc	58	0.88	0.19	mg/Kg		^	10	6020
7429-90-5	Aluminum	16000	38	3.8	mg/Kg			10	6020
7439-95-4	Magnesium	19000	130	3.3	mg/Kg			10	6020
7440-09-7	Potassium	1800	130	4.1	mg/Kg			10	6020
7440-23-5	Sodium	ND	130	49	mg/Kg			10	6020
7440-70-2	Calcium	3600	130	11	mg/Kg			10	6020
7439-97-6	Mercury	33	19	5.9	mg/Kg		H	1000	7471A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	ICV 580-64718/7 05/27/2010 14:16				CCV 580-64718/12 05/27/2010 15:12				CCV 580-64718/24 05/27/2010 16:25			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.398		0.400	99	0.500		0.500	100	0.504		0.500	101
Antimony	0.0398		0.0400	99	0.0506		0.0500	101	0.0498		0.0500	100
Arsenic	0.0393		0.0400	98	0.0492		0.0500	98	0.0510		0.0500	102
Barium	0.0390		0.0400	98	0.0507		0.0500	101	0.0492		0.0500	98
Cadmium	0.0402		0.0400	100	0.0504		0.0500	101	0.0494		0.0500	99
Calcium	ND		4.00	101	ND		5.00	100	ND		5.00	101
Chromium	0.0402		0.0400	100	0.0504		0.0500	101	0.0504		0.0500	101
Cobalt	0.0404		0.0400	101	0.0503		0.0500	101	0.0508		0.0500	102
Iron	4.05		4.00	101	5.02		5.00	100	5.10		5.00	102
Lead	0.0410		0.0400	103	0.0512		0.0500	102	0.0512		0.0500	102
Magnesium	4.10		4.00	102	5.11		5.00	102	5.09		5.00	102
Manganese	0.0402		0.0400	100	0.0505		0.0500	101	0.0507		0.0500	101
Potassium	ND		4.00	102	ND		5.00	102	ND		5.00	102
Silver	0.0399		0.0400	100	0.0502		0.0500	100	0.0499		0.0500	100
Sodium	ND		4.00	101	ND		5.00	100	ND		5.00	99
Thallium	0.0405		0.0400	101	0.0502		0.0500	100	0.0513		0.0500	103
Vanadium	0.0395		0.0400	99	0.0500		0.0500	100	0.0501		0.0500	100
Beryllium	0.0402		0.0400	101	0.0511		0.0500	102	0.0500		0.0500	100
Copper	0.0405		0.0400	101	0.0503		0.0500	101	0.0511		0.0500	102
Nickel	0.0410		0.0400	103	0.0514		0.0500	103	0.0515		0.0500	103
Selenium	0.0399		0.0400	100	0.0488		0.0500	98	0.0477		0.0500	95
Zinc	0.0406		0.0400	101	0.0505		0.0500	101	0.0506		0.0500	101

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	CCV 580-64718/36 05/27/2010 17:47				CCV 580-64718/44 05/27/2010 18:44				CCV 580-64718/56 05/27/2010 20:10			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.509		0.500	102	0.506		0.500	101	0.504		0.500	101
Antimony	0.0514		0.0500	103	0.0510		0.0500	102	0.0519		0.0500	104
Arsenic	0.0516		0.0500	103	0.0506		0.0500	101	0.0527		0.0500	105
Barium	0.0522		0.0500	104	0.0513		0.0500	103	0.0524		0.0500	105
Cadmium	0.0509		0.0500	102	0.0502		0.0500	100	0.0525		0.0500	105
Calcium	ND		5.00	104	ND		5.00	103	ND		5.00	104
Chromium	0.0512		0.0500	102	0.0524		0.0500	105	0.0524		0.0500	105
Cobalt	0.0518		0.0500	104	0.0528		0.0500	106	0.0528		0.0500	106
Iron	5.19		5.00	104	5.14		5.00	103	5.21		5.00	104
Lead	0.0523		0.0500	105	0.0521		0.0500	104	0.0528		0.0500	106
Magnesium	5.08		5.00	102	5.07		5.00	101	5.07		5.00	101
Manganese	0.0524		0.0500	105	0.0533		0.0500	107	0.0531		0.0500	106
Potassium	ND		5.00	104	ND		5.00	104	ND		5.00	105
Silver	0.0514		0.0500	103	0.0510		0.0500	102	0.0517		0.0500	103
Sodium	ND		5.00	101	ND		5.00	99	ND		5.00	100
Thallium	0.0516		0.0500	103	0.0514		0.0500	103	0.0526		0.0500	105
Vanadium	0.0516		0.0500	103	0.0515		0.0500	103	0.0520		0.0500	104
Beryllium	0.0527		0.0500	105	0.0525		0.0500	105	0.0531		0.0500	106
Copper	0.0518		0.0500	104	0.0529		0.0500	106	0.0531		0.0500	106
Nickel	0.0525		0.0500	105	0.0524		0.0500	105	0.0535		0.0500	107
Selenium	0.0537		0.0500	107	0.0462		0.0500	92	0.0525		0.0500	105
Zinc	0.0530		0.0500	106	0.0526		0.0500	105	0.0532		0.0500	106

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	CCV 580-64718/68 05/27/2010 21:35											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.513		0.500	103								
Antimony	0.0524		0.0500	105								
Arsenic	0.0520		0.0500	104								
Barium	0.0528		0.0500	106								
Cadmium	0.0522		0.0500	104								
Calcium	ND		5.00	104								
Chromium	0.0535		0.0500	107								
Cobalt	0.0538		0.0500	108								
Iron	5.20		5.00	104								
Lead	0.0528		0.0500	106								
Magnesium	5.14		5.00	103								
Manganese	0.0540		0.0500	108								
Potassium	ND		5.00	107								
Silver	0.0522		0.0500	104								
Sodium	ND		5.00	100								
Thallium	0.0518		0.0500	104								
Vanadium	0.0525		0.0500	105								
Beryllium	0.0530		0.0500	106								
Copper	0.0542		0.0500	108								
Nickel	0.0559		0.0500	112								
Selenium	0.0592		0.0500	118								
Zinc	0.0548		0.0500	110								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	ICV 580-64756/7 05/28/2010 11:58				CCV 580-64756/12 05/28/2010 12:53				CCV 580-64756/24 05/28/2010 14:06			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Beryllium	0.0395		0.0400	99	0.0503		0.0500	101	0.0496		0.0500	99
Copper	0.0407		0.0400	102	0.0514		0.0500	103	0.0504		0.0500	101
Nickel	0.0403		0.0400	101	0.0517		0.0500	103	0.0501		0.0500	100
Selenium	0.0400		0.0400	100	0.0505		0.0500	101	0.0543		0.0500	109
Zinc	0.0401		0.0400	100	0.0508		0.0500	102	0.0491		0.0500	98

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	CCV 580-64756/36 05/28/2010 15:19				CCV 580-64756/44 05/28/2010 16:07				CCV 580-64756/56 05/28/2010 17:21			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Beryllium	0.0494		0.0500	99	0.0492		0.0500	98	0.0494		0.0500	99
Copper	0.0524		0.0500	105	0.0523		0.0500	105	0.0526		0.0500	105
Nickel	0.0521		0.0500	104	0.0524		0.0500	105	0.0517		0.0500	103
Selenium	0.0528		0.0500	106	0.0484		0.0500	97	0.0489		0.0500	98
Zinc	0.0512		0.0500	102	0.0512		0.0500	102	0.0515		0.0500	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICV Source: ICP-MS CCV_00004 Concentration Units: mg/L

CCV Source: ICP-MS CCV_00004

Analyte	CCV 580-64756/68 05/28/2010 18:34											
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Beryllium	0.0492		0.0500	98								
Copper	0.0529		0.0500	106								
Nickel	0.0537		0.0500	107								
Selenium	0.0479		0.0500	96								
Zinc	0.0515		0.0500	103								

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICV Source: Hg_CAL_WORK_00002 Concentration Units: mg/L

CCV Source: Hg_CAL_WORK_00002

Analyte	ICV 580-64410/19 05/26/2010 09:07				CCV 580-64410/22 05/26/2010 09:20				CCV 580-64410/32 05/26/2010 10:07			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00398		0.00400	100	0.00508		0.00500	102	0.00524		0.00500	105

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICV Source: Hg_CAL_WORK_00002 Concentration Units: mg/L

CCV Source: Hg_CAL_WORK_00002

Analyte	CCV 580-64410/40 05/26/2010 11:00				CCV 580-64410/45 05/26/2010 11:37				CCV 580-64410/55 05/26/2010 12:26			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00502		0.00500	100	0.00514		0.00500	103	0.00533		0.00500	107

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICV Source: Hg_CAL_WORK_00002 Concentration Units: mg/L

CCV Source: Hg_CAL_WORK_00002

Analyte	ICV 580-64554/19 05/27/2010 10:01				CCV 580-64554/21 05/27/2010 12:44				CCV 580-64554/31 05/27/2010 13:42			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00419		0.00400	105	0.00480		0.00500	96	0.00538		0.00500	108

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICV Source: Hg_CAL_WORK_00002 Concentration Units: mg/L

CCV Source: Hg_CAL_WORK_00002

Analyte	CCV 580-64554/38 05/27/2010 14:36				CCV 580-64554/46 05/27/2010 15:25				CCV 580-64554/56 05/27/2010 16:26			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00514		0.00500	103	0.00525		0.00500	105	0.00513		0.00500	103

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.
Italicized analytes were not requested for this sequence.

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Analysis Method: 6020 Instrument ID: SEA044

Lab Sample ID: CRI 580-64718/9 Concentration Units: mg/L

CRQL Check Standard Source: ICP-MS CCV_00004

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Arsenic	0.00200	0.00193		96	50-150
Antimony	0.00200	0.00194		97	50-150
Barium	0.00200	0.00185		92	50-150
Beryllium	0.00200	0.00196		98	50-150
Cadmium	0.00200	0.00204		102	50-150
Chromium	0.00200	0.00202		101	50-150
Lead	0.00200	0.00204		102	50-150
Cobalt	0.00200	0.00209		104	50-150
Copper	0.00200	0.00211		106	50-150
Iron	0.200	0.202		101	50-150
Manganese	0.00200	0.00204		102	50-150
Nickel	0.00200	0.00226		113	50-150
Selenium	0.00200	0.00201		101	50-150
Silver	0.00200	0.00206		103	50-150
Thallium	0.00200	0.00209		104	50-150
Vanadium	0.00200	0.00191		96	50-150
Zinc	0.00200	0.00204		102	50-150
Aluminum	0.0200	ND		106	50-150
Magnesium	0.200	ND		106	50-150
Potassium	0.200	ND		110	50-150
Sodium	0.200	ND		108	50-150
Calcium	0.200	ND		99	50-150

Lab Sample ID: CRI 580-64756/9 Concentration Units: mg/L

CRQL Check Standard Source: ICP-MS CCV_00004

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Beryllium	0.00200	0.00200		100	50-150
Copper	0.00200	0.00216		108	50-150
Nickel	0.00200	0.00202		101	50-150
Selenium	0.00200	0.00190		95	50-150
Zinc	0.00200	0.00213		107	50-150

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

FORM IIB-IN

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 580-64718/8 05/27/2010 14:22		CCB 580-64718/13 05/27/2010 15:18		CCB 580-64718/25 05/27/2010 16:31		CCB 580-64718/37 05/27/2010 17:54	
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.080	ND		ND		ND		ND	
Antimony	0.00040	ND		ND		ND		ND	
Arsenic	0.00040	ND		ND		ND		ND	
Barium	0.00040	ND		ND		ND		ND	
Cadmium	0.00040	ND		ND		ND		ND	
Calcium	10	ND		ND		ND		ND	
Chromium	0.00040	ND		ND		ND		ND	
Cobalt	0.00040	ND		ND		ND		ND	
Iron	0.010	ND		ND		ND		ND	
Lead	0.00040	ND		ND		ND		ND	
Magnesium	0.80	ND		ND		ND		ND	
Manganese	0.00040	ND		ND		ND		ND	
Potassium	10	ND		ND		ND		ND	
Silver	0.00040	ND		ND		ND		ND	
Sodium	10	ND		ND		ND		ND	
Thallium	0.00040	ND		ND		0.000728		ND	
Vanadium	0.00040	ND		ND		ND		ND	
Beryllium	0.00040	ND		ND		ND		ND	
Copper	0.0010	ND		ND		ND		ND	
Nickel	0.00040	ND		ND		ND		ND	
Selenium	0.00040	ND		ND		ND		ND	
Zinc	0.0010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 580-64718/45 05/27/2010 18:51		CCB 580-64718/57 05/27/2010 20:17		CCB 580-64718/69 05/27/2010 21:43			
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.080	ND		ND		ND			
Antimony	0.00040	ND		ND		ND			
Arsenic	0.00040	ND		ND		ND			
Barium	0.00040	ND		ND		ND			
Cadmium	0.00040	ND		ND		ND			
Calcium	10	ND		ND		ND			
Chromium	0.00040	ND		ND		ND			
Cobalt	0.00040	ND		ND		ND			
Iron	0.010	ND		ND		ND			
Lead	0.00040	ND		ND		ND			
Magnesium	0.80	ND		ND		ND			
Manganese	0.00040	ND		ND		ND			
Potassium	10	ND		ND		ND			
Silver	0.00040	ND		ND		ND			
Sodium	10	ND		ND		ND			
Thallium	0.00040	ND		0.000592		ND			
Vanadium	0.00040	ND		ND		ND			
Beryllium	0.00040	ND		ND		ND			
Copper	0.0010	ND		ND		ND			
Nickel	0.00040	ND		ND		ND			
Selenium	0.00040	ND		ND		ND			
Zinc	0.0010	ND		ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 580-64756/8 05/28/2010 12:04		CCB 580-64756/13 05/28/2010 12:59		CCB 580-64756/25 05/28/2010 14:12		CCB 580-64756/37 05/28/2010 15:25	
		Found	C	Found	C	Found	C	Found	C
Beryllium	0.00040	ND		ND		ND		ND	
Copper	0.0010	ND		ND		ND		ND	
Nickel	0.00040	ND		ND		ND		ND	
Selenium	0.00040	ND		0.000969		ND		ND	
Zinc	0.0010	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 580-64756/45 05/28/2010 16:13		CCB 580-64756/57 05/28/2010 17:27		CCB 580-64756/69 05/28/2010 18:40			
		Found	C	Found	C	Found	C	Found	C
Beryllium	0.00040	ND		ND		ND			
Copper	0.0010	ND		ND		ND			
Nickel	0.00040	ND		ND		0.000486			
Selenium	0.00040	ND		ND		ND			
Zinc	0.0010	ND		ND		ND			

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 580-64410/20 05/26/2010 09:12		CCB 580-64410/23 05/26/2010 09:27		CCB 580-64410/33 05/26/2010 10:12		CCB 580-64410/41 05/26/2010 11:04	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 580-64410/46 05/26/2010 11:41		CCB 580-64410/56 05/26/2010 12:30					
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND					

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 580-64554/20 05/27/2010 10:05		CCB 580-64554/22 05/27/2010 12:49		CCB 580-64554/32 05/27/2010 13:46		CCB 580-64554/39 05/27/2010 14:40	
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND		ND		ND	

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 580-64554/47 05/27/2010 15:30		CCB 580-64554/57 05/27/2010 16:30					
		Found	C	Found	C	Found	C	Found	C
Mercury	0.00020	ND		ND					

Italicized analytes were not requested for this sequence.

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64447/21-A

Instrument Code: SEA044 Batch No.: 64718

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	ND		^	6020
7440-36-0	Antimony	ND		^	6020
7440-39-3	Barium	ND		^	6020
7440-43-9	Cadmium	ND			6020
7440-47-3	Chromium	ND		^	6020
7439-92-1	Lead	ND			6020
7440-48-4	Cobalt	ND		^	6020
7439-89-6	Iron	ND			6020
7439-96-5	Manganese	ND		^	6020
7440-22-4	Silver	ND			6020
7440-28-0	Thallium	ND			6020
7440-62-2	Vanadium	ND			6020
7429-90-5	Aluminum	ND			6020
7439-95-4	Magnesium	ND			6020
7440-09-7	Potassium	ND			6020
7440-23-5	Sodium	ND			6020
7440-70-2	Calcium	ND			6020

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64514/21-A

Instrument Code: SEA044 Batch No.: 64718

CAS No.	Analyte	Concentration	C	Q	Method
7440-38-2	Arsenic	ND		^	6020
7440-36-0	Antimony	ND		^	6020
7440-39-3	Barium	ND		^	6020
7440-43-9	Cadmium	ND			6020
7440-47-3	Chromium	ND		^	6020
7439-92-1	Lead	ND			6020
7440-48-4	Cobalt	ND		^	6020
7439-89-6	Iron	ND			6020
7439-96-5	Manganese	ND		^	6020
7440-22-4	Silver	ND			6020
7440-28-0	Thallium	ND			6020
7440-62-2	Vanadium	ND			6020
7429-90-5	Aluminum	ND			6020
7439-95-4	Magnesium	ND			6020
7440-09-7	Potassium	ND			6020
7440-23-5	Sodium	ND			6020
7440-70-2	Calcium	ND			6020

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64447/21-A

Instrument Code: SEA044 Batch No.: 64756

CAS No.	Analyte	Concentration	C	Q	Method
7440-41-7	Beryllium	ND			6020
7440-50-8	Copper	ND		^	6020
7440-02-0	Nickel	ND		^	6020
7782-49-2	Selenium	ND			6020
7440-66-6	Zinc	ND		^	6020

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64514/21-A

Instrument Code: SEA044 Batch No.: 64756

CAS No.	Analyte	Concentration	C	Q	Method
7440-41-7	Beryllium	ND			6020
7440-50-8	Copper	ND		^	6020
7440-02-0	Nickel	ND		^	6020
7782-49-2	Selenium	ND			6020
7440-66-6	Zinc	ND		^	6020

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64215/21-A

Instrument Code: SEA029 Batch No.: 64410

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7471A

FORM III-IN

3-IN
METHOD BLANK
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64500/24-A

Instrument Code: SEA029 Batch No.: 64554

CAS No.	Analyte	Concentration	C	Q	Method
7439-97-6	Mercury	ND			7471A

FORM III-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Lab Sample ID: ICSA 580-64718/10 Instrument ID: SEA044

Lab File ID: 018SMPL.D ICS Source: ICPMS- ICSA_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**100**	**92.6**	**93**
Antimony		**0.0007**	
Arsenic		**0.0004**	
Barium		**0.0005**	
Cadmium		**0.0002**	
Calcium	**300**	**282**	**94**
Chromium		**0.0011**	
Cobalt		**0.0036**	
Iron	**250**	**229**	**92**
Lead		**0.0003**	
Magnesium	**100**	**96.1**	**96**
Manganese		**0.0051**	
Potassium	**100**	**96.1**	**96**
Silver		**0.0002**	
Sodium	**250**	**245**	**98**
Thallium		**0.0001**	
Vanadium		**0.0000**	
Beryllium		*0.0000*	
Copper		*0.0035*	
Mercury		*0.0000*	
Molybdenum	*2.00*	*2.09*	*104*
Nickel		*0.0025*	
Phosphorus	*100*	*101*	*101*
Selenium		*0.0004*	
Strontium		*0.0175*	
Tin		*0.0001*	
Titanium	*2.00*	*1.98*	*99*
Uranium		*0.0000*	
Zinc		*0.0033*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Lab Sample ID: ICSAB 580-64718/11 Instrument ID: SEA044

Lab File ID: 019SMPL.D ICS Source: ICPMS- ICSA_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**100**	**94.0**	**94**
Antimony		**0.0008**	
Arsenic	**0.100**	**0.108**	**108**
Barium		**0.0004**	
Cadmium	**0.100**	**0.105**	**105**
Calcium	**300**	**285**	**95**
Chromium	**0.200**	**0.199**	**100**
Cobalt	**0.200**	**0.200**	**100**
Iron	**250**	**233**	**93**
Lead		**0.0003**	
Magnesium	**100**	**99.0**	**99**
Manganese	**0.200**	**0.200**	**100**
Potassium	**100**	**97.5**	**98**
Silver	**0.0500**	**0.0508**	**102**
Sodium	**250**	**252**	**101**
Thallium		**0.0001**	
Vanadium	**0.200**	**0.205**	**102**
Beryllium		*0.0000*	
Copper	*0.200*	*0.191*	*95*
Mercury		*0.0000*	
Molybdenum	*2.00*	*2.08*	*104*
Nickel	*0.200*	*0.196*	*98*
Phosphorus	*100*	*103*	*103*
Selenium	*0.100*	*0.102*	*102*
Strontium		*0.0172*	
Tin		*0.0001*	
Titanium	*2.00*	*1.98*	*99*
Uranium		*0.0000*	
Zinc	*0.100*	*0.0994*	*99*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Lab Sample ID: ICSAB 580-64718/11 Instrument ID: SEA044

Lab File ID: 019SMPL.D ICS Source: ICPMS-ICSB_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**100**	**94.0**	**94**
Antimony		**0.0008**	
Arsenic	**0.100**	**0.108**	**108**
Barium		**0.0004**	
Cadmium	**0.100**	**0.105**	**105**
Calcium	**300**	**285**	**95**
Chromium	**0.200**	**0.199**	**100**
Cobalt	**0.200**	**0.200**	**100**
Iron	**250**	**233**	**93**
Lead		**0.0003**	
Magnesium	**100**	**99.0**	**99**
Manganese	**0.200**	**0.200**	**100**
Potassium	**100**	**97.5**	**98**
Silver	**0.0500**	**0.0508**	**102**
Sodium	**250**	**252**	**101**
Thallium		**0.0001**	
Vanadium	**0.200**	**0.205**	**102**
Beryllium		*0.0000*	
Copper	*0.200*	*0.191*	*95*
Mercury		*0.0000*	
Molybdenum	*2.00*	*2.08*	*104*
Nickel	*0.200*	*0.196*	*98*
Phosphorus	*100*	*103*	*103*
Selenium	*0.100*	*0.102*	*102*
Strontium		*0.0172*	
Tin		*0.0001*	
Titanium	*2.00*	*1.98*	*99*
Uranium		*0.0000*	
Zinc	*0.100*	*0.0994*	*99*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Lab Sample ID: ICSA 580-64718/171 Instrument ID: SEA044

Lab File ID: 182SMPL.D ICS Source: ICPMS- ICSA_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**100**	**89.8**	**90**
Antimony		**0.0007**	
Arsenic		**0.0004**	
Barium		**0.0005**	
Cadmium		**0.0002**	
Calcium	**300**	**293**	**98**
Chromium		**0.0012**	
Cobalt		**0.0039**	
Iron	**250**	**233**	**93**
Lead		**0.0003**	
Magnesium	**100**	**93.4**	**93**
Manganese		**0.0057**	
Potassium	**100**	**99.4**	**99**
Silver		**0.0002**	
Sodium	**250**	**238**	**95**
Thallium		**0.0002**	
Vanadium		**-0.0001**	
Beryllium		*0.0000*	
Copper		*0.0039*	
Mercury		*0.0039*	
Molybdenum	*2.00*	*2.18*	*109*
Nickel		*0.0029*	
Phosphorus	*100*	*98.6*	*99*
Selenium		*-0.0003*	
Strontium		*0.0184*	
Tin		*0.0001*	
Titanium	*2.00*	*2.08*	*104*
Uranium		*0.0000*	
Zinc		*0.0036*	

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Lab Sample ID: ICSAB 580-64718/172 Instrument ID: SEA044

Lab File ID: 183SMPL.D ICS Source: ICPMS- ICSA_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**100**	**91.9**	**92**
Antimony		**0.0008**	
Arsenic	**0.100**	**0.112**	**112**
Barium		**0.0005**	
Cadmium	**0.100**	**0.108**	**108**
Calcium	**300**	**298**	**99**
Chromium	**0.200**	**0.210**	**105**
Cobalt	**0.200**	**0.214**	**107**
Iron	**250**	**235**	**94**
Lead		**0.0003**	
Magnesium	**100**	**95.9**	**96**
Manganese	**0.200**	**0.212**	**106**
Potassium	**100**	**101**	**101**
Silver	**0.0500**	**0.0526**	**105**
Sodium	**250**	**243**	**97**
Thallium		**0.0001**	
Vanadium	**0.200**	**0.218**	**109**
Beryllium		*0.0000*	
Copper	*0.200*	*0.206*	*103*
Mercury		*0.0038*	
Molybdenum	*2.00*	*2.13*	*106*
Nickel	*0.200*	*0.210*	*105*
Phosphorus	*100*	*101*	*101*
Selenium	*0.100*	*0.111*	*111*
Strontium		*0.0179*	
Tin		*0.0001*	
Titanium	*2.00*	*2.08*	*104*
Uranium		*0.0000*	
Zinc	*0.100*	*0.105*	*105*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Lab Sample ID: ICSAB 580-64718/172 Instrument ID: SEA044

Lab File ID: 183SMPL.D ICS Source: ICPMS-ICSB_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**100**	**91.9**	**92**
Antimony		**0.0008**	
Arsenic	**0.100**	**0.112**	**112**
Barium		**0.0005**	
Cadmium	**0.100**	**0.108**	**108**
Calcium	**300**	**298**	**99**
Chromium	**0.200**	**0.210**	**105**
Cobalt	**0.200**	**0.214**	**107**
Iron	**250**	**235**	**94**
Lead		**0.0003**	
Magnesium	**100**	**95.9**	**96**
Manganese	**0.200**	**0.212**	**106**
Potassium	**100**	**101**	**101**
Silver	**0.0500**	**0.0526**	**105**
Sodium	**250**	**243**	**97**
Thallium		**0.0001**	
Vanadium	**0.200**	**0.218**	**109**
Beryllium		*0.0000*	
Copper	*0.200*	*0.206*	*103*
Mercury		*0.0038*	
Molybdenum	*2.00*	*2.13*	*106*
Nickel	*0.200*	*0.210*	*105*
Phosphorus	*100*	*101*	*101*
Selenium	*0.100*	*0.111*	*111*
Strontium		*0.0179*	
Tin		*0.0001*	
Titanium	*2.00*	*2.08*	*104*
Uranium		*0.0000*	
Zinc	*0.100*	*0.105*	*105*

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Lab Sample ID: ICSAB 580-64756/11 Instrument ID: SEA044

Lab File ID: 018SMPL.D ICS Source: ICPMS-ICSB_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Beryllium		**0.0000**	
Copper	**0.200**	**0.190**	**95**
Nickel	**0.200**	**0.194**	**97**
Selenium	**0.100**	**0.105**	**105**
Zinc	**0.100**	**0.0953**	**95**

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

FORM IVA-IN

4A-IN
INTERFERENCE CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Lab Sample ID: ICSAB 580-64756/172 Instrument ID: SEA044

Lab File ID: 182SMPL.D ICS Source: ICPMS-ICSB_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Beryllium		**0.0000**	
Copper	**0.200**	**0.195**	**97**
Nickel	**0.200**	**0.196**	**98**
Selenium	**0.100**	**0.105**	**105**
Zinc	**0.100**	**0.0991**	**99**

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 01CMMW MS
Lab ID: 580-19393-1 MS
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 87.5

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	192		10		201	91	75-125	^	6020
Antimony	138		0.73		150	91	75-125	^	6020
Barium	477		330		201	73	75-125	^ F	6020
Beryllium	5.47		0.82		5.01	93	75-125		6020
Cadmium	4.82		ND		5.01	93	75-125		6020
Chromium	226		210		20.1	91	75-125	^ 4	6020
Lead	59.4		12		50.1	94	75-125		6020
Cobalt	70.8		25		50.1	92	75-125	^	6020
Copper	69.6		44		25.1	103	75-125	^	6020
Iron	40100		41000		1100	-56	75-125	4	6020
Manganese	741		680		50.1	131	75-125	^ 4	6020
Nickel	305		250		50.1	110	75-125	^ 4	6020
Selenium	203		0.75		201	101	75-125		6020
Silver	28.4		ND		30.1	94	75-125		6020
Thallium	188		ND		201	94	75-125		6020
Vanadium	116		72		50.1	88	75-125		6020
Zinc	117		70		50.1	92	75-125	^	6020
Aluminum	24500		24000		201	378	75-125	4	6020
Magnesium	27000		26000		1000	105	75-125	4	6020
Mercury	0.286		0.071		0.165	131	75-125	F	7471A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 04HMMW MS
Lab ID: 580-19393-17 MS
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 90.9

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Mercury	3.52		3.1		0.145	296	75-125	4	7471A

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS

Client ID: 05HMSB MS
Lab ID: 580-19393-18 MS
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 77.6

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	194		0.64		198	98	75-125	^	6020
Antimony	135		ND		148	91	75-125	^	6020
Barium	303		130		198	88	75-125	^	6020
Beryllium	4.84		ND		4.95	96	75-125		6020
Cadmium	5.13		ND		4.95	103	75-125		6020
Chromium	377		400		19.8	-100	75-125	^ 4	6020
Lead	52.5		1.3		49.5	103	75-125		6020
Cobalt	131		93		49.5	77	75-125	^	6020
Copper	30.1		5.4		24.7	100	75-125	^	6020
Iron	37400		43000		1090	-470	75-125	4	6020
Manganese	283		270		49.5	21	75-125	^ 4	6020
Nickel	1580		1700		49.5	-240	75-125	^ 4	6020
Selenium	191		ND		198	97	75-125		6020
Silver	30.3		ND		29.7	102	75-125		6020
Thallium	198		ND		198	100	75-125		6020
Vanadium	66.6		21		49.5	92	75-125		6020
Zinc	64.6		18		49.5	95	75-125	^	6020
Aluminum	1890		1900		198	0	75-125	4	6020
Magnesium	9970		10000		989	-6	75-125	4	6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: 01CMMW MSD
Lab ID: 580-19393-1 MSD
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg
% Solids: 87.5

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	200		203	93	75-125	4	35	^	6020
Antimony	144		152	94	75-125	4	35	^	6020
Barium	496		203	81	75-125	4	35	^	6020
Beryllium	5.75		5.07	97	75-125	5	35		6020
Cadmium	5.06		5.07	96	75-125	5	35		6020
Chromium	238		20.3	151	75-125	5	35	^ 4	6020
Lead	62.1		50.7	99	75-125	5	35		6020
Cobalt	75.7		50.7	100	75-125	7	35	^	6020
Copper	72.7		25.3	114	75-125	4	35	^	6020
Iron	42000		1120	107	75-125	4	35	4	6020
Manganese	788		50.7	221	75-125	6	35	^ 4	6020
Nickel	321		50.7	141	75-125	5	35	^ 4	6020
Selenium	199		203	98	75-125	2	35		6020
Silver	29.8		30.4	98	75-125	5	35		6020
Thallium	197		203	97	75-125	4	35		6020
Vanadium	123		50.7	101	75-125	6	35		6020
Zinc	122		50.7	101	75-125	4	35	^	6020
Aluminum	26000		203	1110	75-125	6	35	4	6020
Magnesium	28800		1010	278	75-125	6	35	4	6020
Mercury	0.276		0.159	129	75-125	4	35	F	7471A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: 04HMMW MSD

Lab ID: 580-19393-17 MSD

Lab Name: TestAmerica Tacoma

Job No.: 580-19393-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 90.9

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	3.48		0.144	272	75-125	1	35	4	7471A

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS

Client ID: 05HMSB MSD

Lab ID: 580-19393-18 MSD

Lab Name: TestAmerica Tacoma

Job No.: 580-19393-1

SDG No.:

Matrix: Solid

Concentration Units: mg/Kg

% Solids: 77.6

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	216		222	97	75-125	11	35	^	6020
Antimony	153		166	92	75-125	13	35	^	6020
Barium	342		222	96	75-125	12	35	^	6020
Beryllium	5.22		5.54	92	75-125	8	35		6020
Cadmium	5.90		5.54	106	75-125	14	35		6020
Chromium	409		22.2	55	75-125	8	35	^ 4	6020
Lead	58.5		55.4	103	75-125	11	35		6020
Cobalt	147		55.4	96	75-125	11	35	^	6020
Copper	34.0		27.7	103	75-125	12	35	^	6020
Iron	41100		1220	-117	75-125	9	35	4	6020
Manganese	316		55.4	77	75-125	11	35	^ 4	6020
Nickel	1760		55.4	119	75-125	11	35	^ 4	6020
Selenium	227		222	102	75-125	17	35		6020
Silver	33.6		33.3	101	75-125	10	35		6020
Thallium	221		222	100	75-125	11	35		6020
Vanadium	73.2		55.4	94	75-125	9	35		6020
Zinc	70.8		55.4	96	75-125	9	35	^	6020
Aluminum	2050		222	72	75-125	8	35	4	6020
Magnesium	11200		1110	105	75-125	12	35	4	6020

SDR = Sample Duplicate Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: 01CMMW PDS
Lab ID: 580-19393-1 PDS
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	195		10		191	97	75-125	^	6020
Antimony	137		0.73		144	95	75-125	^	6020
Barium	471		330		191	73	75-125	^ W	6020
Beryllium	5.38		0.82		4.78	95	75-125		6020
Cadmium	4.75		ND		4.78	96	75-125		6020
Chromium	225		210		19.1	NC	75-125	^	6020
Lead	58.7		12		47.8	98	75-125		6020
Cobalt	71.5		25		47.8	98	75-125	^	6020
Copper	67.5		44		23.9	99	75-125	^	6020
Iron	39800		41000		1050	NC	75-125		6020
Manganese	749		680		47.8	NC	75-125	^	6020
Nickel	301		250		47.8	108	75-125	^	6020
Selenium	194		0.75		191	101	75-125		6020
Silver	28.1		ND		28.7	98	75-125		6020
Thallium	186		ND		191	97	75-125		6020
Vanadium	118		72		47.8	97	75-125		6020
Zinc	117		70		47.8	97	75-125	^	6020
Aluminum	24500		24000		191	NC	75-125		6020
Magnesium	27000		26000		957	NC	75-125		6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS

Client ID: 05HMSB PDS
Lab ID: 580-19393-18 PDS
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG No.:
Matrix: Solid
Concentration Units: mg/Kg

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	208		0.64		217	95	75-125	^	6020
Antimony	148		ND		163	91	75-125	^	6020
Barium	326		130		217	91	75-125	^	6020
Beryllium	4.98		ND		5.42	90	75-125		6020
Cadmium	5.42		ND		5.42	99	75-125		6020
Chromium	391		400		21.7	NC	75-125	^	6020
Lead	55.7		1.3		54.2	100	75-125		6020
Cobalt	139		93		54.2	85	75-125	^	6020
Copper	32.6		5.4		27.1	100	75-125	^	6020
Iron	39700		43000		1190	NC	75-125		6020
Manganese	301		270		54.2	52	75-125	^ W	6020
Nickel	1700		1700		54.2	NC	75-125	^	6020
Selenium	211		ND		217	97	75-125		6020
Silver	32.8		ND		32.5	101	75-125		6020
Thallium	211		ND		217	97	75-125		6020
Vanadium	71.7		21		54.2	93	75-125		6020
Zinc	69.9		18		54.2	96	75-125	^	6020
Aluminum	1950		1900		217	28	75-125	W	6020
Magnesium	10500		10000		1080	44	75-125	W	6020

SSR = Spiked Sample Result

Calculations are performed before rounding to avoid round-off errors in calculated results.
Note - Results and Reporting Limits have been adjusted for dry weight.

FORM VB - IN

6-IN
DUPLICATES
METALS

Client ID: 01CMMW DU
Lab ID: 580-19393-1 DU
Lab Name: TestAmerica Tacoma
Job No.: 580-19393-1
SDG No.:
% Solids for Sample: 87.5
% Solids for Duplicate: 87.5
Matrix: Solid
Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic	0.19	10		10.1		3	^	6020
Antimony	0.19	0.73		0.739		1	^	6020
Barium	0.19	330		323		3	^	6020
Beryllium	0.19	0.82		0.783		5		6020
Cadmium	0.19	ND		0.197		12		6020
Chromium	0.19	210		195		6	^	6020
Lead	0.19	12		11.7		3		6020
Cobalt	0.19	25		24.0		3	^	6020
Copper	0.19	44		42.4		3	^	6020
Iron	19	41000		39200		4		6020
Manganese	0.47	680		641		5	^	6020
Nickel	0.19	250		244		2	^	6020
Selenium	0.47	0.75		0.676		10		6020
Silver	0.19	ND		ND		9		6020
Thallium	0.37	ND		ND		6		6020
Vanadium	0.19	72		69.1		4		6020
Zinc	0.65	70		67.6		4	^	6020
Aluminum	28	24000		22900		3		6020
Magnesium	93	26000		25300		3		6020
Potassium	93	1000		1040		2		6020
Sodium	93	ND		ND		0		6020
Calcium	93	12000		11400		4		6020
Mercury	0.020	0.071		0.0778		9		7471A

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: 04HMMW DU

Lab ID: 580-19393-17 DU

Lab Name: TestAmerica Tacoma

Job No.: 580-19393-1

SDG No.:

% Solids for Sample: 90.9

% Solids for Duplicate: 90.9

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Mercury	0.18	3.1		3.59		15		7471A

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

FORM VI-IN

6-IN
DUPLICATES
METALS

Client ID: 05HMSB DU

Lab ID: 580-19393-18 DU

Lab Name: TestAmerica Tacoma

Job No.: 580-19393-1

SDG No.:

% Solids for Sample: 77.6

% Solids for Duplicate: 77.6

Matrix: Solid

Concentration Units: mg/Kg

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic	0.21	0.64		0.613		4	^	6020
Antimony	0.21	ND		ND		3	^	6020
Barium	0.21	130		128		0	^	6020
Beryllium	0.21	ND		ND		5		6020
Cadmium	0.21	ND		ND		7		6020
Chromium	0.21	400		393		1	^	6020
Lead	0.21	1.3		1.24		4		6020
Cobalt	0.21	93		92.9		1	^	6020
Copper	0.21	5.4		5.26		2	^	6020
Iron	21	43000		41300		3		6020
Manganese	0.53	270		269		2	^	6020
Nickel	0.21	1700		1670		1	^	6020
Selenium	0.53	ND		ND		188		6020
Silver	0.21	ND		ND		NC		6020
Thallium	0.42	ND		ND		2		6020
Vanadium	0.21	21		20.9		1		6020
Zinc	0.74	18		17.8		0	^	6020
Aluminum	32	1900		1880		0		6020
Magnesium	110	10000		10000		0		6020
Potassium	110	130		126		1		6020
Sodium	110	ND		ND		NC		6020
Calcium	110	170		168		2		6020

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64447/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	200	197		99	80	120	^	6020
Antimony	150	142		94	80	120	^	6020
Barium	200	196		98	80	120	^	6020
Cadmium	5.00	4.75		95	80	120		6020
Chromium	20.0	19.9		100	80	120	^	6020
Lead	50.0	50.6		101	80	120		6020
Cobalt	50.0	50.8		102	80	120	^	6020
Iron	1100	1130		103	80	120		6020
Manganese	50.0	50.5		101	80	120	^	6020
Silver	30.0	29.7		99	80	120		6020
Thallium	200	195		98	80	120		6020
Vanadium	50.0	49.4		99	80	120		6020
Aluminum	200	208		104	80	120		6020
Magnesium	1000	1050		105	80	120		6020

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

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64447/23-A

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	198		200	99	80-120	1	35	^	6020
Antimony	141		150	94	80-120	0	35	^	6020
Barium	192		200	96	80-120	2	35	^	6020
Cadmium	4.76		5.00	95	80-120	0	35		6020
Chromium	20.1		20.0	100	80-120	1	35	^	6020
Lead	49.8		50.0	100	80-120	2	35		6020
Cobalt	51.2		50.0	102	80-120	1	35	^	6020
Iron	1120		1100	102	80-120	1	35		6020
Manganese	50.6		50.0	101	80-120	0	35	^	6020
Silver	30.0		30.0	100	80-120	1	35		6020
Thallium	193		200	96	80-120	1	35		6020
Vanadium	49.7		50.0	99	80-120	1	35		6020
Aluminum	196		200	98	80-120	6	35		6020
Magnesium	1040		1000	104	80-120	1	35		6020

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64447/24-A

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	225	261		116	71.1	128.9	^	6020
Antimony	126	162		129	21.0	251.6	^	6020
Barium	565	632		112	74.7	125.5	^	6020
Cadmium	69.1	77.1		112	73.2	126.8		6020
Chromium	124	142		114	69.9	129.8	^	6020
Lead	223	251		113	75.3	125.1		6020
Cobalt	115	138		120	74.5	126.1	^	6020
Iron	17600	20800		118	41.6	159.1		6020
Manganese	368	416		113	75.8	124.5	^	6020
Silver	35.2	41.0		117	65.6	134.4		6020
Thallium	173	201		116	68.8	131.2		6020
Vanadium	93.9	112		119	64.5	135.3		6020
Aluminum	10600	12000		113	46.0	153.8		6020
Magnesium	4260	4940		116	70.0	130.0		6020

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64514/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	200	204		102	80	120	^	6020
Antimony	150	159		106	80	120	^	6020
Barium	200	221		111	80	120	^	6020
Cadmium	5.00	5.24		105	80	120		6020
Chromium	20.0	21.1		105	80	120	^	6020
Lead	50.0	56.3		113	80	120		6020
Cobalt	50.0	52.6		105	80	120	^	6020
Iron	1100	1160		105	80	120		6020
Manganese	50.0	52.4		105	80	120	^	6020
Silver	30.0	33.5		112	80	120		6020
Thallium	200	215		108	80	120		6020
Vanadium	50.0	52.0		104	80	120		6020
Aluminum	200	192		96	80	120		6020
Magnesium	1000	1040		104	80	120		6020

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

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64514/23-A

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	204		200	102	80-120	0	35	^	6020
Antimony	147		150	98	80-120	8	35	^	6020
Barium	203		200	101	80-120	9	35	^	6020
Cadmium	5.18		5.00	104	80-120	1	35		6020
Chromium	20.6		20.0	103	80-120	2	35	^	6020
Lead	52.4		50.0	105	80-120	7	35		6020
Cobalt	52.6		50.0	105	80-120	0	35	^	6020
Iron	1130		1100	102	80-120	3	35		6020
Manganese	51.8		50.0	104	80-120	1	35	^	6020
Silver	30.6		30.0	102	80-120	9	35		6020
Thallium	203		200	101	80-120	6	35		6020
Vanadium	51.2		50.0	102	80-120	1	35		6020
Aluminum	196		200	98	80-120	2	35		6020
Magnesium	1030		1000	103	80-120	0	35		6020

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64514/24-A

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	225	252		112	71.1	128.9	^	6020
Antimony	126	158		126	21.0	251.6	^	6020
Barium	565	631		112	74.7	125.5	^	6020
Cadmium	69.1	74.3		107	73.2	126.8		6020
Chromium	124	133		107	69.9	129.8	^	6020
Lead	223	243		109	75.3	125.1		6020
Cobalt	115	131		114	74.5	126.1	^	6020
Iron	17600	19400		110	41.6	159.1		6020
Manganese	368	397		108	75.8	124.5	^	6020
Silver	35.2	40.2		114	65.6	134.4		6020
Thallium	173	195		113	68.8	131.2		6020
Vanadium	93.9	106		113	64.5	135.3		6020
Aluminum	10600	10900		103	46.0	153.8		6020
Magnesium	4260	4520		106	70.0	130.0		6020

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64447/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Beryllium	5.00	4.70		94	80	120		6020
Copper	25.0	25.3		101	80	120	^	6020
Nickel	50.0	50.5		101	80	120	^	6020
Selenium	200	207		103	80	120		6020
Zinc	50.0	49.5		99	80	120	^	6020

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

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64447/23-A

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Beryllium	4.58		5.00	92	80-120	3	35		6020
Copper	25.8		25.0	103	80-120	2	35	^	6020
Nickel	49.4		50.0	99	80-120	2	35	^	6020
Selenium	200		200	100	80-120	3	35		6020
Zinc	49.6		50.0	99	80-120	0	35	^	6020

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64447/24-A

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Beryllium	162	166		102	75.3	124.7		6020
Copper	66.7	72.9		109	73.2	126.8	^	6020
Nickel	172	190		111	73.8	126.7	^	6020
Selenium	147	166		113	67.1	132.7		6020
Zinc	349	373		107	72.2	127.8	^	6020

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64514/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Beryllium	5.00	4.71		94	80	120		6020
Copper	25.0	26.4		106	80	120	^	6020
Nickel	50.0	51.4		103	80	120	^	6020
Selenium	200	199		100	80	120		6020
Zinc	50.0	51.7		103	80	120	^	6020

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

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64514/23-A

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

Sample Matrix: Solid LCS Source: m-GPS-1_00015

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Beryllium	4.78		5.00	96	80-120	2	35		6020
Copper	26.1		25.0	105	80-120	1	35	^	6020
Nickel	50.9		50.0	102	80-120	1	35	^	6020
Selenium	207		200	103	80-120	4	35		6020
Zinc	51.3		50.0	103	80-120	1	35	^	6020

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64514/24-A

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Beryllium	162	167		103	75.3	124.7		6020
Copper	66.7	74.0		111	73.2	126.8	^	6020
Nickel	172	192		111	73.8	126.7	^	6020
Selenium	147	166		113	67.1	132.7		6020
Zinc	349	388		111	72.2	127.8	^	6020

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64215/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

Sample Matrix: Solid LCS Source: Hg_CAL_WORK_00002

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.200	0.204		102	75	125		7471A

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

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64215/23-A

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

Sample Matrix: Solid LCS Source: Hg_CAL_WORK_00002

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.203		0.200	102	75-125	0	25		7471A

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64215/24-A

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.15	4.68		91	80	120		7471A

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

FORM VIIA - IN

7A-IN
LAB CONTROL SAMPLE
METALS

Lab ID: LCS 580-64500/25-A

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

Sample Matrix: Solid LCS Source: Hg_SPK_WORK_00002

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.200	0.192		96	75	125		7471A

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

FORM VIIA - IN

7D-IN
LAB CONTROL SAMPLE DUPLICATE
METALS

Lab ID: LCSD 580-64500/26-A

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

Sample Matrix: Solid LCS Source: Hg_SPK_WORK_00002

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.195		0.200	98	75-125	2	25		7471A

SDR = Spike Duplicate Results
Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIID - IN

7A-IN
LCS-STANDARD REFERENCE MATERIAL
METALS

Lab ID: LCSSRM 580-64500/27-A

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.15	4.97		96	80	120		7471A

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

FORM VIIA - IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 580-19393-1

SDG No:

Lab Name: TestAmerica Tacoma Job No: 580-19393-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	10		11.2		7.1	^	6020
Antimony	0.73		ND		NC	^	6020
Barium	330		359		8.3	^	6020
Beryllium	0.82		ND		3.1		6020
Cadmium	ND		ND		NC		6020
Chromium	210		248		19	^ V	6020
Lead	12		13.3		11	V	6020
Cobalt	25		30.1		21	^ V	6020
Copper	44		50.4		15	^ V	6020
Iron	41000		46900		15	V	6020
Manganese	680		836		24	^ V	6020
Nickel	250		292		17	^ V	6020
Selenium	0.75		ND		56	V	6020
Silver	ND		ND		NC		6020
Thallium	ND		ND		NC		6020
Vanadium	72		84.3		17	V	6020
Zinc	70		84.0		19	^ V	6020
Aluminum	24000		28800		22	V	6020
Magnesium	26000		31500		22	V	6020
Potassium	1000		1310		28	V	6020
Sodium	ND		ND		NC		6020
Calcium	12000		14100		19	V	6020

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

FORM VIII-IN

8-IN
ICP-AES AND ICP-MS SERIAL DILUTIONS
METALS

Lab ID: 580-19393-18

SDG No:

Lab Name: TestAmerica Tacoma Job No: 580-19393-1

Matrix: Solid Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	0.64		ND		30	^ V	6020
Antimony	ND		ND		NC	^	6020
Barium	130		131		2.2	^	6020
Beryllium	ND		ND		NC		6020
Cadmium	ND		ND		NC		6020
Chromium	400		433		9.2	^	6020
Lead	1.3		1.31		1.5		6020
Cobalt	93		101		8.5	^	6020
Copper	5.4		6.01		11	^ V	6020
Iron	43000		45300		6.5		6020
Manganese	270		291		6.7	^	6020
Nickel	1700		1930		14	^ V	6020
Selenium	ND		ND		414	V	6020
Silver	ND		ND		NC		6020
Thallium	ND		ND		NC		6020
Vanadium	21		21.5		1.8		6020
Zinc	18		19.0		6.7	^	6020
Aluminum	1900		2070		9.7		6020
Magnesium	10000		11100		10		6020
Potassium	130		ND		NC		6020
Sodium	ND		ND		NC		6020
Calcium	170		ND		NC		6020

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

FORM VIII-IN

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Tacoma Job Number: 580-19393-1

SDG Number:

Matrix: Solid Instrument ID: SEA044

Analysis Method: 6020 MDL Date: 05/07/2010 09:23

Prep Method: 3050B

Leach Method:

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Aluminum		30	3
Antimony		0.2	0.0657
Arsenic		0.2	0.004
Barium		0.2	0.0148
Beryllium		0.2	0.0069
Cadmium		0.2	0.00468
Calcium		100	8.86
Chromium		0.2	0.04
Cobalt		0.2	0.00535
Copper		0.2	0.0322
Iron		20	3.45
Lead		0.2	0.0104
Magnesium		100	2.64
Manganese		0.5	0.158
Nickel		0.2	0.0367
Potassium		100	3.31
Selenium		0.5	0.004
Silver		0.2	0.0041
Sodium		100	39.2
Thallium		0.4	0.04
Vanadium		0.2	0.0267
Zinc		0.7	0.15

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Tacoma Job Number: 580-19393-1

SDG Number:

Matrix: Solid Instrument ID: SEA029

Analysis Method: 7471A MDL Date: 10/02/2008 09:50

Prep Method: 7471A

Leach Method:

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Mercury		0.02	0.0063

FORM IX - IN

11-IN
ICP-AES AND ICP-MS LINEAR RANGES
METALS

Lab Name: TestAmerica Tacoma Job No: 580-19393-1

SDG No.:

Instrument ID: SEA044 Date: 04/01/2007 10:29

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Arsenic		5	6020
Antimony		5	6020
Barium		5	6020
Beryllium		5	6020
Cadmium		5	6020
Chromium		5	6020
Lead		5	6020
Cobalt		5	6020
Copper		5	6020
Iron		5	6020
Manganese		5	6020
Nickel		5	6020
Selenium		5	6020
Silver		5	6020
Thallium		5	6020
Vanadium		5	6020
Zinc		5	6020
Aluminum		5	6020
Magnesium		5	6020
Potassium		5	6020
Sodium		5	6020
Calcium		5	6020

11-IN
ICP-AES AND ICP-MS LINEAR RANGES
METALS

Lab Name: TestAmerica Tacoma Job No: 580-19393-1

SDG No.:

Instrument ID: SEA029 Date: 01/01/2007 16:04

Analyte	Integ. Time (Sec.)	Concentration (mg/L)	Method
Mercury		0.011	7471A

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Preparation Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
580-19393-1	05/26/2010 16:03	64447	1.1941		50
580-19393-1 DU	05/26/2010 16:03	64447	1.2279		50
580-19393-1 MS	05/26/2010 16:03	64447	1.1393		50
580-19393-1 MSD	05/26/2010 16:03	64447	1.1271		50
580-19393-2	05/26/2010 16:03	64447	1.0115		50
580-19393-3	05/26/2010 16:03	64447	1.1636		50
580-19393-4	05/26/2010 16:03	64447	1.2950		50
580-19393-5	05/26/2010 16:03	64447	1.2782		50
580-19393-6	05/26/2010 16:03	64447	1.4633		50
580-19393-7	05/26/2010 16:03	64447	1.1898		50
580-19393-8	05/26/2010 16:03	64447	1.3451		50
580-19393-9	05/26/2010 16:03	64447	1.2294		50
580-19393-10	05/26/2010 16:03	64447	1.2395		50
580-19393-11	05/26/2010 16:03	64447	1.0635		50
580-19393-12	05/26/2010 16:03	64447	1.3061		50
580-19393-13	05/26/2010 16:03	64447	1.1878		50
580-19393-14	05/26/2010 16:03	64447	1.5819		50
580-19393-15	05/26/2010 16:03	64447	1.1949		50
580-19393-16	05/26/2010 16:03	64447	1.3388		50
580-19393-17	05/26/2010 16:03	64447	1.5847		50
MB 580-64447/21-A	05/26/2010 16:03	64447	1.0		50
LCS 580-64447/22-A	05/26/2010 16:03	64447	1.0		50
LCSD 580-64447/23-A	05/26/2010 16:03	64447	1.0		50
LCSSRM 580-64447/24-A	05/26/2010 16:03	64447	0.5225		50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Preparation Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
580-19393-18	05/27/2010 12:12	64514	1.1870		50
580-19393-18 DU	05/27/2010 12:12	64514	1.2142		50
580-19393-18 MS	05/27/2010 12:12	64514	1.3021		50
580-19393-18 MSD	05/27/2010 12:12	64514	1.1618		50
580-19393-19	05/27/2010 12:12	64514	1.2184		50
580-19393-20	05/27/2010 12:12	64514	1.1846		50
580-19393-21	05/27/2010 12:12	64514	1.0065		50
MB 580-64514/21-A	05/27/2010 12:12	64514	1.0		50
LCS 580-64514/22-A	05/27/2010 12:12	64514	1.0		50
LCSD 580-64514/23-A	05/27/2010 12:12	64514	1.0		50
LCSSRM 580-64514/24-A	05/27/2010 12:12	64514	0.5119		50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Preparation Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
580-19393-1	05/24/2010 13:58	64215	0.6130		50
580-19393-1 DU	05/24/2010 13:58	64215	0.5616		50
580-19393-1 MS	05/24/2010 13:58	64215	0.6945		50
580-19393-1 MSD	05/24/2010 13:58	64215	0.7195		50
580-19393-2	05/24/2010 13:58	64215	0.5053		50
580-19393-3	05/24/2010 13:58	64215	0.6531		50
580-19393-4	05/24/2010 13:58	64215	0.6270		50
580-19393-5	05/24/2010 13:58	64215	0.5689		50
580-19393-6	05/24/2010 13:58	64215	0.7233		50
580-19393-7	05/24/2010 13:58	64215	0.6075		50
580-19393-8	05/24/2010 13:58	64215	0.7030		50
580-19393-9	05/24/2010 13:58	64215	0.5318		50
580-19393-10	05/24/2010 13:58	64215	0.5879		50
580-19393-11	05/24/2010 13:58	64215	0.7940		50
580-19393-12	05/24/2010 13:58	64215	0.7670		50
580-19393-13	05/24/2010 13:58	64215	0.6481		50
580-19393-14	05/24/2010 13:58	64215	0.5989		50
580-19393-15	05/24/2010 13:58	64215	0.5268		50
580-19393-16	05/24/2010 13:58	64215	0.8501		50
580-19393-21	05/24/2010 13:58	64215	0.6713		50
MB 580-64215/21-A	05/24/2010 13:58	64215	0.5		50
LCS 580-64215/22-A	05/24/2010 13:58	64215	0.5		50
LCSD 580-64215/23-A	05/24/2010 13:58	64215	0.5		50
LCSSRM 580-64215/24-A	05/24/2010 13:58	64215	0.1047		50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Preparation Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
580-19393-17	05/27/2010 10:21	64500	0.8209		50
580-19393-17 DU	05/27/2010 10:21	64500	0.6172		50
580-19393-17 MS	05/27/2010 10:21	64500	0.7563		50
580-19393-17 MSD	05/27/2010 10:21	64500	0.7667		50
580-19393-18	05/27/2010 10:21	64500	0.6350		50
580-19393-19	05/27/2010 10:21	64500	0.7369		50
580-19393-20	05/27/2010 10:21	64500	0.8196		50
MB 580-64500/24-A	05/27/2010 10:21	64500	0.5		50
LCS 580-64500/25-A	05/27/2010 10:21	64500	.5		50
LCSD 580-64500/26-A	05/27/2010 10:21	64500	.5		50
LCSSRM 580-64500/27-A	05/27/2010 10:21	64500	0.1302		50

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Ca	Cd	Co	Cr	Fe	K	Mg	Mn	Na	Pb	Sb	Tl	V			
STD0 580-64718/1 IC			13:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
STD1 580-64718/2 IC			13:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
STD2 580-64718/3 IC			13:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
STD3 580-64718/4 IC			13:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
STD4 580-64718/5 IC			13:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
STD5 580-64718/6 IC			13:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICV 580-64718/7	1		14:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICB 580-64718/8	1		14:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CRI 580-64718/9	1		14:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICSA 580-64718/10	1		14:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICSAB 580-64718/11	1		14:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 580-64718/12	1		15:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 580-64718/13	1		15:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
MB 580-64447/21-A	10	T	15:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-1 SD	50	T	15:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-1	10	T	15:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-1 DU	10	T	15:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-1 MS	50	T	15:48	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-1 MSD	50	T	15:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-1 PDS	50	T	16:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LCS 580-64447/22-A	50	T	16:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LCSD 580-64447/23-A	50	T	16:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LCSSRM 580-64447/24-A	20	T	16:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 580-64718/24	1		16:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 580-64718/25	1		16:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-2	10	T	16:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-3	10	T	16:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-4	10	T	16:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-5	10	T	16:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-6	10	T	17:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-7	10	T	17:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-8	10	T	17:19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-9	10	T	17:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-10	10	T	17:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-11	10	T	17:40	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 580-64718/36	1		17:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 580-64718/37	1		17:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-12	10	T	18:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-13	10	T	18:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-14	10	T	18:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-15	10	T	18:23	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-16	10	T	18:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Ca	Cd	Co	Cr	Fe	K	Mg	Mn	Na	Pb	Sb	Tl	V			
580-19393-17	10	T	18:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 580-64718/44	1		18:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 580-64718/45	1		18:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
MB 580-64514/21-A	10	T	18:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-18 SD	50	T	19:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-18	10	T	19:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-18 DU	10	T	19:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-18 MS	50	T	19:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-18 MSD	50	T	19:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-18 PDS	50	T	19:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LCS 580-64514/22-A	50	T	19:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LCSD 580-64514/23-A	50	T	19:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
LCSSRM 580-64514/24-A	20	T	20:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCV 580-64718/56	1		20:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 580-64718/57	1		20:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-19	10	T	20:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-20	10	T	20:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
580-19393-21	10	T	20:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ZZZZZZ			20:46																				
ZZZZZZ			20:53																				
ZZZZZZ			21:00																				
ZZZZZZ			21:07																				
ZZZZZZ			21:14																				
ZZZZZZ			21:21																				
ZZZZZZ			21:28																				
CCV 580-64718/68	1		21:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
CCB 580-64718/69	1		21:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ZZZZZZ			21:50																				
ZZZZZZ			21:57																				
ZZZZZZ			22:04																				
ZZZZZZ			22:11																				
ZZZZZZ			22:18																				
ZZZZZZ			22:25																				
CCV 580-64718/76			22:32																				
CCB 580-64718/77			22:39																				
ZZZZZZ			22:47																				
ZZZZZZ			22:54																				
ZZZZZZ			23:01																				
ZZZZZZ			23:08																				
ZZZZZZ			23:15																				
ZZZZZZ			23:22																				
ZZZZZZ			23:30																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Ca	Cd	Co	Cr	Fe	K	Mg	Mn	Na	Pb	Sb	Tl	V			
ZZZZZZ			23:37																				
ZZZZZZ			23:44																				
CCV 580-64718/87			23:51																				
CCB 580-64718/88			23:58																				
ZZZZZZ			00:05																				
ZZZZZZ			00:12																				
ZZZZZZ			00:20																				
ZZZZZZ			00:27																				
ZZZZZZ			00:34																				
ZZZZZZ			00:41																				
ZZZZZZ			00:48																				
ZZZZZZ			00:55																				
ZZZZZZ			01:03																				
ZZZZZZ			01:10																				
CCV 580-64718/99			01:17																				
CCB 580-64718/100			01:24																				
ZZZZZZ			01:31																				
ZZZZZZ			01:38																				
ZZZZZZ			01:45																				
ZZZZZZ			01:53																				
CCV 580-64718/105			02:00																				
CCB 580-64718/106			02:07																				
ZZZZZZ			02:14																				
ZZZZZZ			02:21																				
ZZZZZZ			02:28																				
ZZZZZZ			02:35																				
ZZZZZZ			02:42																				
ZZZZZZ			02:49																				
ZZZZZZ			02:57																				
ZZZZZZ			03:04																				
ZZZZZZ			03:11																				
ZZZZZZ			03:18																				
CCV 580-64718/117			03:25																				
CCB 580-64718/118			03:32																				
ZZZZZZ			03:39																				
ZZZZZZ			03:47																				
ZZZZZZ			03:54																				
ZZZZZZ			04:01																				
ZZZZZZ			04:08																				
ZZZZZZ			04:15																				
ZZZZZZ			04:22																				
ZZZZZZ			04:29																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Ca	Cd	Co	Cr	Fe	K	Mg	Mn	Na	Pb	Sb	Tl	V			
ZZZZZZ			04:36																				
ZZZZZZ			04:43																				
CCV 580-64718/129			04:50																				
CCB 580-64718/130			04:58																				
ZZZZZZ			05:05																				
ZZZZZZ			05:12																				
ZZZZZZ			05:19																				
ZZZZZZ			05:26																				
ZZZZZZ			05:33																				
ZZZZZZ			05:41																				
CCV 580-64718/137			05:48																				
CCB 580-64718/138			05:55																				
ZZZZZZ			06:02																				
ZZZZZZ			06:09																				
ZZZZZZ			06:17																				
ZZZZZZ			06:24																				
ZZZZZZ			06:31																				
ZZZZZZ			06:38																				
ZZZZZZ			06:45																				
ZZZZZZ			06:52																				
ZZZZZZ			06:59																				
ZZZZZZ			07:07																				
CCV 580-64718/149			07:14																				
CCB 580-64718/150			07:21																				
ZZZZZZ			07:28																				
ZZZZZZ			07:35																				
ZZZZZZ			07:42																				
ZZZZZZ			07:49																				
ZZZZZZ			07:56																				
ZZZZZZ			08:04																				
ZZZZZZ			08:11																				
ZZZZZZ			08:18																				
ZZZZZZ			08:25																				
ZZZZZZ			08:32																				
CCV 580-64718/161			08:39																				
CCB 580-64718/162			08:46																				
ZZZZZZ			08:53																				
ZZZZZZ			09:00																				
ZZZZZZ			09:08																				
ZZZZZZ			09:15																				
ZZZZZZ			09:22																				
ZZZZZZ			09:29																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/27/2010 13:27 End Date: 05/28/2010 09:58

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Ca	Cd	Co	Cr	Fe	K	Mg	Mn	Na	Pb	Sb	Tl	V			
CCV 580-64718/169			09:36																				
CCB 580-64718/170			09:43																				
ICSA 580-64718/171	1		09:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
ICSAB 580-64718/172	1		09:58	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/28/2010 11:15 End Date: 05/29/2010 05:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Be	Cu	Ni	Se	Zn															
STD0 580-64756/1 IC			11:15	X	X	X	X	X															
STD1 580-64756/2 IC			11:21	X	X	X	X	X															
STD2 580-64756/3 IC			11:27	X	X	X	X	X															
STD3 580-64756/4 IC			11:33	X	X	X	X	X															
STD4 580-64756/5 IC			11:39	X	X	X	X	X															
STD5 580-64756/6 IC			11:46	X	X	X	X	X															
ICV 580-64756/7	1		11:58	X	X	X	X	X															
ICB 580-64756/8	1		12:04	X	X	X	X	X															
CRI 580-64756/9	1		12:16	X	X	X	X	X															
ICSA 580-64756/10	1		12:23	X	X	X	X	X															
ICSAB 580-64756/11	1		12:29	X	X	X	X	X															
CCV 580-64756/12	1		12:53	X	X	X	X	X															
CCB 580-64756/13	1		12:59	X	X	X	X	X															
MB 580-64447/21-A	10	T	13:05	X	X	X	X	X															
580-19393-1 SD	50	T	13:11	X	X	X	X	X															
580-19393-1	10	T	13:17	X	X	X	X	X															
580-19393-1 DU	10	T	13:23	X	X	X	X	X															
580-19393-1 MS	50	T	13:29	X	X	X	X	X															
580-19393-1 MSD	50	T	13:36	X	X	X	X	X															
580-19393-1 PDS	50	T	13:42	X	X	X	X	X															
LCS 580-64447/22-A	50	T	13:48	X	X	X	X	X															
LCSD 580-64447/23-A	50	T	13:54	X	X	X	X	X															
LCSSRM 580-64447/24-A	20	T	14:00	X	X	X	X	X															
CCV 580-64756/24	1		14:06	X	X	X	X	X															
CCB 580-64756/25	1		14:12	X	X	X	X	X															
580-19393-2	10	T	14:18	X	X	X	X	X															
580-19393-3	10	T	14:24	X	X	X	X	X															
580-19393-4	10	T	14:30	X	X	X	X	X															
580-19393-5	10	T	14:36	X	X	X	X	X															
580-19393-6	10	T	14:42	X	X	X	X	X															
580-19393-7	10	T	14:48	X	X	X	X	X															
580-19393-8	10	T	14:55	X	X	X	X	X															
580-19393-9	10	T	15:01	X	X	X	X	X															
580-19393-10	10	T	15:07	X	X	X	X	X															
580-19393-11	10	T	15:13	X	X	X	X	X															
CCV 580-64756/36	1		15:19	X	X	X	X	X															
CCB 580-64756/37	1		15:25	X	X	X	X	X															
580-19393-12	10	T	15:31	X	X	X	X	X															
580-19393-13	10	T	15:37	X	X	X	X	X															
580-19393-14	10	T	15:43	X	X	X	X	X															
580-19393-15	10	T	15:49	X	X	X	X	X															
580-19393-16	10	T	15:55	X	X	X	X	X															

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/28/2010 11:15 End Date: 05/29/2010 05:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Be	Cu	Ni	Se	Zn															
580-19393-17	10	T	16:01	X	X	X	X	X															
CCV 580-64756/44	1		16:07	X	X	X	X	X															
CCB 580-64756/45	1		16:13	X	X	X	X	X															
MB 580-64514/21-A	10	T	16:19	X	X	X	X	X															
580-19393-18 SD	50	T	16:25	X	X	X	X	X															
580-19393-18	10	T	16:32	X	X	X	X	X															
580-19393-18 DU	10	T	16:38	X	X	X	X	X															
580-19393-18 MS	50	T	16:44	X	X	X	X	X															
580-19393-18 MSD	50	T	16:50	X	X	X	X	X															
580-19393-18 PDS	50	T	16:56	X	X	X	X	X															
LCS 580-64514/22-A	50	T	17:02	X	X	X	X	X															
LCSD 580-64514/23-A	50	T	17:08	X	X	X	X	X															
LCSSRM 580-64514/24-A	20	T	17:14	X	X	X	X	X															
CCV 580-64756/56	1		17:21	X	X	X	X	X															
CCB 580-64756/57	1		17:27	X	X	X	X	X															
580-19393-19	10	T	17:33	X	X	X	X	X															
580-19393-20	10	T	17:39	X	X	X	X	X															
580-19393-21	10	T	17:45	X	X	X	X	X															
ZZZZZZ			17:51																				
ZZZZZZ			17:57																				
ZZZZZZ			18:03																				
ZZZZZZ			18:09																				
ZZZZZZ			18:15																				
ZZZZZZ			18:21																				
ZZZZZZ			18:28																				
CCV 580-64756/68	1		18:34	X	X	X	X	X															
CCB 580-64756/69	1		18:40	X	X	X	X	X															
ZZZZZZ			18:46																				
ZZZZZZ			18:52																				
ZZZZZZ			18:58																				
ZZZZZZ			19:04																				
ZZZZZZ			19:10																				
ZZZZZZ			19:16																				
CCV 580-64756/76			19:22																				
CCB 580-64756/77			19:29																				
ZZZZZZ			19:35																				
ZZZZZZ			19:41																				
ZZZZZZ			19:47																				
ZZZZZZ			19:53																				
ZZZZZZ			19:59																				
ZZZZZZ			20:05																				
ZZZZZZ			20:12																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/28/2010 11:15 End Date: 05/29/2010 05:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Be	Cu	Ni	Se	Zn															
ZZZZZZ			20:18																				
ZZZZZZ			20:24																				
CCV 580-64756/87			20:30																				
CCB 580-64756/88			20:36																				
ZZZZZZ			20:42																				
ZZZZZZ			20:48																				
ZZZZZZ			20:54																				
ZZZZZZ			21:01																				
ZZZZZZ			21:07																				
ZZZZZZ			21:13																				
ZZZZZZ			21:19																				
ZZZZZZ			21:25																				
ZZZZZZ			21:31																				
ZZZZZZ			21:38																				
CCV 580-64756/99			21:44																				
CCB 580-64756/100			21:50																				
ZZZZZZ			21:56																				
ZZZZZZ			22:02																				
ZZZZZZ			22:08																				
ZZZZZZ			22:14																				
CCV 580-64756/105			22:21																				
CCB 580-64756/106			22:27																				
ZZZZZZ			22:33																				
ZZZZZZ			22:39																				
ZZZZZZ			22:45																				
ZZZZZZ			22:51																				
ZZZZZZ			22:57																				
ZZZZZZ			23:03																				
ZZZZZZ			23:09																				
ZZZZZZ			23:16																				
ZZZZZZ			23:22																				
ZZZZZZ			23:28																				
CCV 580-64756/117			23:34																				
CCB 580-64756/118			23:41																				
ZZZZZZ			23:47																				
ZZZZZZ			23:53																				
ZZZZZZ			23:59																				
ZZZZZZ			00:05																				
ZZZZZZ			00:11																				
ZZZZZZ			00:17																				
ZZZZZZ			00:23																				
ZZZZZZ			00:29																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/28/2010 11:15 End Date: 05/29/2010 05:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Be	Cu	Ni	Se	Zn															
ZZZZZZ			00:35																				
ZZZZZZ			00:42																				
CCV 580-64756/129			00:48																				
CCB 580-64756/130			00:54																				
ZZZZZZ			01:00																				
ZZZZZZ			01:06																				
ZZZZZZ			01:12																				
ZZZZZZ			01:19																				
ZZZZZZ			01:25																				
ZZZZZZ			01:31																				
CCV 580-64756/137			01:37																				
CCB 580-64756/138			01:43																				
ZZZZZZ			01:49																				
ZZZZZZ			01:55																				
ZZZZZZ			02:01																				
ZZZZZZ			02:08																				
ZZZZZZ			02:14																				
ZZZZZZ			02:20																				
ZZZZZZ			02:26																				
ZZZZZZ			02:32																				
ZZZZZZ			02:38																				
ZZZZZZ			02:44																				
CCV 580-64756/149			02:51																				
CCB 580-64756/150			02:57																				
ZZZZZZ			03:03																				
ZZZZZZ			03:09																				
ZZZZZZ			03:15																				
ZZZZZZ			03:21																				
ZZZZZZ			03:27																				
ZZZZZZ			03:33																				
ZZZZZZ			03:40																				
ZZZZZZ			03:46																				
ZZZZZZ			03:52																				
ZZZZZZ			03:58																				
CCV 580-64756/161			04:04																				
CCB 580-64756/162			04:10																				
ZZZZZZ			04:16																				
ZZZZZZ			04:22																				
ZZZZZZ			04:28																				
ZZZZZZ			04:35																				
ZZZZZZ			04:41																				
ZZZZZZ			04:47																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/28/2010 11:15 End Date: 05/29/2010 05:11

Lab Sample ID	D/F	Type	Time	Analytes																			
				Be	Cu	Ni	Se	Zn															
CCV 580-64756/169			04:53																				
CCB 580-64756/170			04:59																				
ICSA 580-64756/171	1		05:05	X	X	X	X	X															
ICSAB 580-64756/172	1		05:11	X	X	X	X	X															

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Instrument ID: SEA029 Method: 7471A

Start Date: 05/26/2010 07:47 End Date: 05/26/2010 12:30

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
STD01REP1 580-64410/1 IC			07:47	X																			
STD01REP2 580-64410/2 IC			07:51	X																			
STD01REP3 580-64410/3 IC			07:56	X																			
STD02REP1 580-64410/4 IC			08:00	X																			
STD02REP2 580-64410/5 IC			08:05	X																			
STD02REP3 580-64410/6 IC			08:09	X																			
STD03REP1 580-64410/7 IC			08:13	X																			
STD03REP2 580-64410/8 IC			08:18	X																			
STD03REP3 580-64410/9 IC			08:22	X																			
STD04REP1 580-64410/10 IC			08:27	X																			
STD04REP2 580-64410/11 IC			08:31	X																			
STD04REP3 580-64410/12 IC			08:36	X																			
STD05REP1 580-64410/13 IC			08:40	X																			
STD05REP2 580-64410/14 IC			08:45	X																			
STD05REP3 580-64410/15 IC			08:49	X																			
STD06REP1 580-64410/16 IC			08:53	X																			
STD06REP2 580-64410/17 IC			08:58	X																			
STD06REP3 580-64410/18 IC			09:03	X																			
ICV 580-64410/19	1		09:07	X																			
ICB 580-64410/20	1		09:12	X																			
ZZZZZZ			09:16																				
CCV 580-64410/22	1		09:20	X																			
CCB 580-64410/23	1		09:27	X																			
MB 580-64215/21-A	1	T	09:32	X																			
LCS 580-64215/22-A	1	T	09:36	X																			
LCSD 580-64215/23-A	1	T	09:41	X																			
LCSSRM 580-64215/24-A	2	T	09:45	X																			
580-19393-1	1	T	09:50	X																			
580-19393-1 DU	1	T	09:54	X																			
580-19393-1 MS	1	T	09:58	X																			
580-19393-1 MSD	1	T	10:03	X																			
CCV 580-64410/32	1		10:07	X																			
CCB 580-64410/33	1		10:12	X																			
580-19393-2	1000	T	10:16	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Instrument ID: SEA029 Method: 7471A

Start Date: 05/26/2010 07:47 End Date: 05/26/2010 12:30

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
580-19393-7	1000	T	10:38	X																			
580-19393-8	1000	T	10:43	X																			
580-19393-9	1000	T	10:47	X																			
580-19393-10	1000	T	10:51	X																			
ZZZZZZ			10:56																				
CCV 580-64410/40	1		11:00	X																			
CCB 580-64410/41	1		11:04	X																			
580-19393-15	1000	T	11:23	X																			
580-19393-16	1000	T	11:27	X																			
580-19393-21	1000	T	11:33	X																			
CCV 580-64410/45	1		11:37	X																			
CCB 580-64410/46	1		11:41	X																			
580-19393-3	10	T	11:46	X																			
580-19393-4	10	T	11:50	X																			
580-19393-6	10	T	11:59	X																			
580-19393-11	10000	T	12:04	X																			
580-19393-12	10	T	12:08	X																			
580-19393-13	10	T	12:13	X																			
580-19393-14	10	T	12:17	X																			
580-19393-5	1	T	12:22	X																			
CCV 580-64410/55	1		12:26	X																			
CCB 580-64410/56	1		12:30	X																			

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Instrument ID: SEA029 Method: 7471A

Start Date: 05/27/2010 08:41 End Date: 05/27/2010 16:30

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
STD01REP1 580-64554/1 IC			08:41	X																			
STD01REP2 580-64554/2 IC			08:45	X																			
STD01REP3 580-64554/3 IC			08:50	X																			
STD02REP1 580-64554/4 IC			08:54	X																			
STD02REP2 580-64554/5 IC			08:59	X																			
STD02REP3 580-64554/6 IC			09:03	X																			
STD03REP1 580-64554/7 IC			09:08	X																			
STD03REP2 580-64554/8 IC			09:12	X																			
STD03REP3 580-64554/9 IC			09:17	X																			
STD04REP1 580-64554/10 IC			09:21	X																			
STD04REP2 580-64554/11 IC			09:26	X																			
STD04REP3 580-64554/12 IC			09:30	X																			
STD05REP1 580-64554/13 IC			09:35	X																			
STD05REP2 580-64554/14 IC			09:39	X																			
STD05REP3 580-64554/15 IC			09:43	X																			
STD06REP1 580-64554/16 IC			09:48	X																			
STD06REP2 580-64554/17 IC			09:52	X																			
STD06REP3 580-64554/18 IC			09:57	X																			
ICV 580-64554/19	1		10:01	X																			
ICB 580-64554/20	1		10:05	X																			
CCV 580-64554/21	1		12:44	X																			
CCB 580-64554/22	1		12:49	X																			
MB 580-64500/24-A	1	T	12:54	X																			
LCS 580-64500/25-A	1	T	12:58	X																			
LCSD 580-64500/26-A	1	T	13:03	X																			
LCSSRM 580-64500/27-A	2	T	13:07	X																			
580-19393-17	10	T	13:23	X																			
580-19393-17 DU	10	T	13:28	X																			
580-19393-17 MS	10	T	13:33	X																			
580-19393-17 MSD	10	T	13:37	X																			
CCV 580-64554/31	1		13:42	X																			
CCB 580-64554/32	1		13:46	X																			
580-19393-18	1000	T	13:51	X																			
ZZZZZZ			14:14																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Instrument ID: SEA029 Method: 7471A

Start Date: 05/27/2010 08:41 End Date: 05/27/2010 16:30

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			14:23																				
ZZZZZZ			14:27																				
ZZZZZZ			14:31																				
CCV 580-64554/38	1		14:36	X																			
CCB 580-64554/39	1		14:40	X																			
ZZZZZZ			14:44																				
ZZZZZZ			14:49																				
ZZZZZZ			15:03																				
ZZZZZZ			15:12																				
ZZZZZZ			15:16																				
ZZZZZZ			15:21																				
CCV 580-64554/46	1		15:25	X																			
CCB 580-64554/47	1		15:30	X																			
ZZZZZZ			15:43																				
ZZZZZZ			15:47																				
ZZZZZZ			15:52																				
ZZZZZZ			15:56																				
ZZZZZZ			16:07																				
ZZZZZZ			16:11																				
580-19393-19	1	T	16:17	X																			
580-19393-20	1	T	16:21	X																			
CCV 580-64554/56	1		16:26	X																			
CCB 580-64554/57	1		16:30	X																			

Prep Types

T = Total/NA

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/27/2010 End Date: 05/28/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q
ICV 580-64718/7	14:16	93		93		99		97		99	
ICB 580-64718/8	14:22	94		97		99		98		99	
CRI 580-64718/9	14:35			95		96		98		96	
ICSA 580-64718/10	14:41	70		72		89		82		85	
ICSAB 580-64718/11	14:47	70		72		85		77		81	
CCV 580-64718/12	15:12	81		81		94		90		95	
CCB 580-64718/13	15:18	82		84		94		91		96	
MB 580-64447/21-A	15:24					94		91			
580-19393-1 SD	15:30					98		98		96	
580-19393-1	15:36					98		101			
580-19393-1 DU	15:42					88		99			
580-19393-1 MS	15:48					84		100			
580-19393-1 MSD	15:54					83		100			
580-19393-1 PDS	16:00					82		101		82	
LCS 580-64447/22-A	16:07					78		97			
LCSD 580-64447/23-A	16:13					78		97			
LCSSRM	16:19					79		101			
CCV 580-64718/24	16:25	91		92		79		98		80	
CCB 580-64718/25	16:31	92		93		79		99		80	
580-19393-2	16:37					79		100			
580-19393-3	16:44					79		97			
580-19393-4	16:51					83		101			
580-19393-5	16:58					78		99			
580-19393-6	17:05					75		103			
580-19393-7	17:12					74		99			
580-19393-8	17:19					78		101			
580-19393-9	17:26					73		100			
580-19393-10	17:33					70		96			
580-19393-11	17:40					77		97			
CCV 580-64718/36	17:47	78		79		73		91		75	
CCB 580-64718/37	17:54	80		82		73		91		77	
580-19393-12	18:02					79		101			
580-19393-13	18:09					80		101			
580-19393-14	18:16					77		103			
580-19393-15	18:23					72		94			
580-19393-16	18:30					71		97			
580-19393-17	18:37					71		98			
CCV 580-64718/44	18:44	79		80		68		93		71	
CCB 580-64718/45	18:51	79		82		70		95		73	
MB 580-64514/21-A	18:58					69		94			
580-19393-18 SD	19:06			89		72		95		74	
580-19393-18	19:13					72		93			

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/27/2010 End Date: 05/28/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q
580-19393-18 DU	19:20					71		90			
580-19393-18 MS	19:27					70		91			
580-19393-18 MSD	19:34					70		93			
580-19393-18 PDS	19:41			89		73		95		75	
LCS 580-64514/22-A	19:49					65		90			
LCSD 580-64514/23-A	19:56					68		91			
LCSSRM	20:03					70		97			
CCV 580-64718/56	20:10	81		83		66		91		69	
CCB 580-64718/57	20:17	81		84		66		92		68	
580-19393-19	20:24					74		93			
580-19393-20	20:32					69		91			
580-19393-21	20:39					65		100			
CCV 580-64718/68	21:35	74		77		59		84		61	
CCB 580-64718/69	21:43	74		75		65		86		68	
ICSA 580-64718/171	09:50	64		66		38		79		38	
ICSAB 580-64718/172	09:58	64		66		38		75		36	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/27/2010 End Date: 05/28/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Ge	Q	Element Ge	Q	Element Rh	Q	Element Rh	Q	Element Ho	Q
ICV 580-64718/7	14:16	99		98		96		97		98	
ICB 580-64718/8	14:22	100		97		98		99		99	
CRI 580-64718/9	14:35	100				99		100		98	
ICSA 580-64718/10	14:41	81		79		72		76		85	
ICSAB 580-64718/11	14:47	76		78		69		74		85	
CCV 580-64718/12	15:12	92		90		90		91		97	
CCB 580-64718/13	15:18	93		90		93		92		96	
MB 580-64447/21-A	15:24					94		93		95	
580-19393-1 SD	15:30	94				92		95		97	
580-19393-1	15:36					87		88		96	
580-19393-1 DU	15:42					85		86		96	
580-19393-1 MS	15:48					95		97		98	
580-19393-1 MSD	15:54					95		98		100	
580-19393-1 PDS	16:00	100				96		99		100	
LCS 580-64447/22-A	16:07					98		99		101	
LCSD 580-64447/23-A	16:13					99		99		101	
LCSSRM	16:19					98		101		102	
CCV 580-64718/24	16:25	100		100		97		99		99	
CCB 580-64718/25	16:31	101		99		101		101		101	
580-19393-2	16:37					90		90		97	
580-19393-3	16:44					84		84		94	
580-19393-4	16:51					85		86		95	
580-19393-5	16:58					85		86		95	
580-19393-6	17:05					92		96		102	
580-19393-7	17:12					89		89		97	
580-19393-8	17:19					87		89		96	
580-19393-9	17:26					89		89		96	
580-19393-10	17:33					86		85		93	
580-19393-11	17:40					88		88		96	
CCV 580-64718/36	17:47	93		91		91		93		96	
CCB 580-64718/37	17:54	94		92		95		94		95	
580-19393-12	18:02					88		90		96	
580-19393-13	18:09					87		89		97	
580-19393-14	18:16					92		93		99	
580-19393-15	18:23					86		87		94	
580-19393-16	18:30					87		89		97	
580-19393-17	18:37					88		89		96	
CCV 580-64718/44	18:44	98		97		96		98		99	
CCB 580-64718/45	18:51	100		97		99		100		100	
MB 580-64514/21-A	18:58					97		95		97	
580-19393-18 SD	19:06	96				93		95		96	
580-19393-18	19:13					89		90		95	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/27/2010 End Date: 05/28/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Ge	Q	Element Ge	Q	Element Rh	Q	Element Rh	Q	Element Ho	Q
580-19393-18 DU	19:20					87		89		95	
580-19393-18 MS	19:27					91		95		95	
580-19393-18 MSD	19:34					92		95		97	
580-19393-18 PDS	19:41	96				94		95		97	
LCS 580-64514/22-A	19:49					94		88		90	
LCSD 580-64514/23-A	19:56					94		95		98	
LCSSRM	20:03					95		94		96	
CCV 580-64718/56	20:10	95		94		91		93		95	
CCB 580-64718/57	20:17	95		93		95		95		94	
580-19393-19	20:24					79		83		89	
580-19393-20	20:32					80		84		89	
580-19393-21	20:39					92		97		98	
CCV 580-64718/68	21:35	89		90		88		90		93	
CCB 580-64718/69	21:43	92		90		93		93		94	
ICSA 580-64718/171	09:50	81		85		73		81		87	
ICSAB 580-64718/172	09:58	78		85		71		80		87	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/27/2010 End Date: 05/28/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Lu	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
ICV 580-64718/7	14:16	100		96							
ICB 580-64718/8	14:22	100		99							
CRI 580-64718/9	14:35	99									
ICSA 580-64718/10	14:41	87		77							
ICSAB 580-64718/11	14:47	86		76							
CCV 580-64718/12	15:12	98		95							
CCB 580-64718/13	15:18	96		97							
MB 580-64447/21-A	15:24	97									
580-19393-1 SD	15:30	98									
580-19393-1	15:36	96									
580-19393-1 DU	15:42	96									
580-19393-1 MS	15:48	99									
580-19393-1 MSD	15:54	100									
580-19393-1 PDS	16:00	100									
LCS 580-64447/22-A	16:07	101									
LCSD 580-64447/23-A	16:13	101									
LCSSRM	16:19	102									
CCV 580-64718/24	16:25	102		98							
CCB 580-64718/25	16:31	101		101							
580-19393-2	16:37	98									
580-19393-3	16:44	95									
580-19393-4	16:51	96									
580-19393-5	16:58	97									
580-19393-6	17:05	101									
580-19393-7	17:12	97									
580-19393-8	17:19	96									
580-19393-9	17:26	96									
580-19393-10	17:33	94									
580-19393-11	17:40	98									
CCV 580-64718/36	17:47	97		94							
CCB 580-64718/37	17:54	97		96							
580-19393-12	18:02	97									
580-19393-13	18:09	96									
580-19393-14	18:16	98									
580-19393-15	18:23	95									
580-19393-16	18:30	97									
580-19393-17	18:37	96									
CCV 580-64718/44	18:44	100		98							
CCB 580-64718/45	18:51	100		100							
MB 580-64514/21-A	18:58	97									
580-19393-18 SD	19:06	96									
580-19393-18	19:13	96									

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/27/2010 End Date: 05/28/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Lu	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
580-19393-18 DU	19:20	96									
580-19393-18 MS	19:27	94									
580-19393-18 MSD	19:34	96									
580-19393-18 PDS	19:41	96									
LCS 580-64514/22-A	19:49	90									
LCSD 580-64514/23-A	19:56	97									
LCSSRM	20:03	95									
CCV 580-64718/56	20:10	96		94							
CCB 580-64718/57	20:17	95		95							
580-19393-19	20:24	90									
580-19393-20	20:32	90									
580-19393-21	20:39	98									
CCV 580-64718/68	21:35	94		92							
CCB 580-64718/69	21:43	94		95							
ICSA 580-64718/171	09:50	87		78							
ICSAB 580-64718/172	09:58	87		77							

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/28/2010 End Date: 05/29/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q
ICV 580-64756/7	11:58	98		99		89		100		88	
ICB 580-64756/8	12:04	97		98		92		99		90	
CRI 580-64756/9	12:16					91		101		89	
ICSA 580-64756/10	12:23	87		88		80		94		73	
ICSAB 580-64756/11	12:29	87		88		74		90		67	
CCV 580-64756/12	12:53	98		96		94		97		92	
CCB 580-64756/13	12:59	100		97		91		97		90	
MB 580-64447/21-A	13:05					92		97			
580-19393-1 SD	13:11					92		97		88	
580-19393-1	13:17					87		105			
580-19393-1 DU	13:23					77		106			
580-19393-1 MS	13:29					67		101			
580-19393-1 MSD	13:36					66		99			
580-19393-1 PDS	13:42					63		99		59	
LCS 580-64447/22-A	13:48					57		98			
LCSD 580-64447/23-A	13:54					53		99			
LCSSRM	14:00					50		100			
CCV 580-64756/24	14:06	106		105		46		100		43	
CCB 580-64756/25	14:12	106		105		46		102		43	
580-19393-2	14:18					43		106			
580-19393-3	14:24					44		106			
580-19393-4	14:30					41		111			
580-19393-5	14:36					40		107			
580-19393-6	14:42					35		105			
580-19393-7	14:48					38		102			
580-19393-8	14:55					39		108			
580-19393-9	15:01					36		103			
580-19393-10	15:07					36		103			
580-19393-11	15:13					40		100			
CCV 580-64756/36	15:19	100		100		38		96		35	
CCB 580-64756/37	15:25	98		96		41		96		39	
580-19393-12	15:31					43		105			
580-19393-13	15:37					43		103			
580-19393-14	15:43					41		104			
580-19393-15	15:49					37		98			
580-19393-16	15:55					39		98			
580-19393-17	16:01					39		97			
CCV 580-64756/44	16:07	98		95		36		93		34	
CCB 580-64756/45	16:13	96		96		39		94		36	
MB 580-64514/21-A	16:19					41		94			
580-19393-18 SD	16:25					41		93		39	
580-19393-18	16:32					41		92			

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/28/2010 End Date: 05/29/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q
580-19393-18 DU	16:38					41		90			
580-19393-18 MS	16:44					41		89			
580-19393-18 MSD	16:50					43		90			
580-19393-18 PDS	16:56			94		42		89		41	
LCS 580-64514/22-A	17:02					39		88			
LCSD 580-64514/23-A	17:08					40		90			
LCSSRM	17:14					40		90			
CCV 580-64756/56	17:21	93		92		38		88		36	
CCB 580-64756/57	17:27	96		94		36		91		35	
580-19393-19	17:33					38		95			
580-19393-20	17:39					34		92			
580-19393-21	17:45					31		92			
CCV 580-64756/68	18:34	91		91		22		86		19	
CCB 580-64756/69	18:40	88		87		24		87		22	
ICSA 580-64756/171	05:05	76		75		22		77		19	
ICSAB 580-64756/172	05:11	77		77		21		76		17	

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/28/2010 End Date: 05/29/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Ge	Q	Element Ge	Q	Element Rh	Q	Element Rh	Q	Element Ho	Q
ICV 580-64756/7	11:58	98		100		96		99		101	
ICB 580-64756/8	12:04	100		99		99		100		100	
CRI 580-64756/9	12:16	99				99		100		101	
ICSA 580-64756/10	12:23	89		92		78		81		91	
ICSAB 580-64756/11	12:29	85		89		76		81		89	
CCV 580-64756/12	12:53	96		99		94		96		100	
CCB 580-64756/13	12:59	96		97		97		99		99	
MB 580-64447/21-A	13:05					96		97		99	
580-19393-1 SD	13:11	92				90		94		96	
580-19393-1	13:17					87		90		97	
580-19393-1 DU	13:23					87		91		97	
580-19393-1 MS	13:29					93		99		99	
580-19393-1 MSD	13:36					91		97		98	
580-19393-1 PDS	13:42	95				92		97		98	
LCS 580-64447/22-A	13:48					95		98		99	
LCSD 580-64447/23-A	13:54					96		100		99	
LCSSRM	14:00					94		99		101	
CCV 580-64756/24	14:06	98		105		95		101		101	
CCB 580-64756/25	14:12	101		103		100		104		103	
580-19393-2	14:18					92		94		99	
580-19393-3	14:24					89		94		100	
580-19393-4	14:30					89		94		99	
580-19393-5	14:36					89		97		101	
580-19393-6	14:42					93		98		103	
580-19393-7	14:48					90		96		100	
580-19393-8	14:55					90		97		101	
580-19393-9	15:01					90		95		98	
580-19393-10	15:07					91		97		100	
580-19393-11	15:13					91		95		100	
CCV 580-64756/36	15:19	97		103		95		100		101	
CCB 580-64756/37	15:25	97		102		99		101		101	
580-19393-12	15:31					91		97		102	
580-19393-13	15:37					89		95		100	
580-19393-14	15:43					93		97		102	
580-19393-15	15:49					88		93		99	
580-19393-16	15:55					87		91		98	
580-19393-17	16:01					86		93		100	
CCV 580-64756/44	16:07	95		101		94		101		103	
CCB 580-64756/45	16:13	97		100		98		100		101	
MB 580-64514/21-A	16:19					98		101		101	
580-19393-18 SD	16:25	94				93		97		99	
580-19393-18	16:32					88		91		99	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/28/2010 End Date: 05/29/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Ge	Q	Element Ge	Q	Element Rh	Q	Element Rh	Q	Element Ho	Q
580-19393-18 DU	16:38					87		90		97	
580-19393-18 MS	16:44					90		94		99	
580-19393-18 MSD	16:50					91		95		99	
580-19393-18 PDS	16:56	90				90		94		99	
LCS 580-64514/22-A	17:02					92		95		98	
LCSD 580-64514/23-A	17:08					93		95		99	
LCSSRM	17:14					90		92		99	
CCV 580-64756/56	17:21	90		96		90		93		98	
CCB 580-64756/57	17:27	92		95		94		95		98	
580-19393-19	17:33					80		84		93	
580-19393-20	17:39					81		85		93	
580-19393-21	17:45					86		91		96	
CCV 580-64756/68	18:34	89		97		89		95		98	
CCB 580-64756/69	18:40	91		95		93		94		98	
ICSA 580-64756/171	05:05	78		83		72		77		86	
ICSAB 580-64756/172	05:11	76		84		70		77		86	

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/28/2010 End Date: 05/29/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Lu	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
ICV 580-64756/7	11:58	99		97							
ICB 580-64756/8	12:04	98		100							
CRI 580-64756/9	12:16	99									
ICSA 580-64756/10	12:23	88		79							
ICSAB 580-64756/11	12:29	87		78							
CCV 580-64756/12	12:53	98		94							
CCB 580-64756/13	12:59	97		98							
MB 580-64447/21-A	13:05	96									
580-19393-1 SD	13:11	93									
580-19393-1	13:17	93									
580-19393-1 DU	13:23	93									
580-19393-1 MS	13:29	96									
580-19393-1 MSD	13:36	95									
580-19393-1 PDS	13:42	95									
LCS 580-64447/22-A	13:48	95									
LCSD 580-64447/23-A	13:54	98									
LCSSRM	14:00	98									
CCV 580-64756/24	14:06	98		96							
CCB 580-64756/25	14:12	98		99							
580-19393-2	14:18	97									
580-19393-3	14:24	98									
580-19393-4	14:30	96									
580-19393-5	14:36	97									
580-19393-6	14:42	98									
580-19393-7	14:48	97									
580-19393-8	14:55	97									
580-19393-9	15:01	96									
580-19393-10	15:07	97									
580-19393-11	15:13	98									
CCV 580-64756/36	15:19	99		98							
CCB 580-64756/37	15:25	100		100							
580-19393-12	15:31	98									
580-19393-13	15:37	97									
580-19393-14	15:43	98									
580-19393-15	15:49	96									
580-19393-16	15:55	95									
580-19393-17	16:01	97									
CCV 580-64756/44	16:07	100		98							
CCB 580-64756/45	16:13	99		101							
MB 580-64514/21-A	16:19	98									
580-19393-18 SD	16:25	98									
580-19393-18	16:32	97									

FORM XV - IN

15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY
METALS

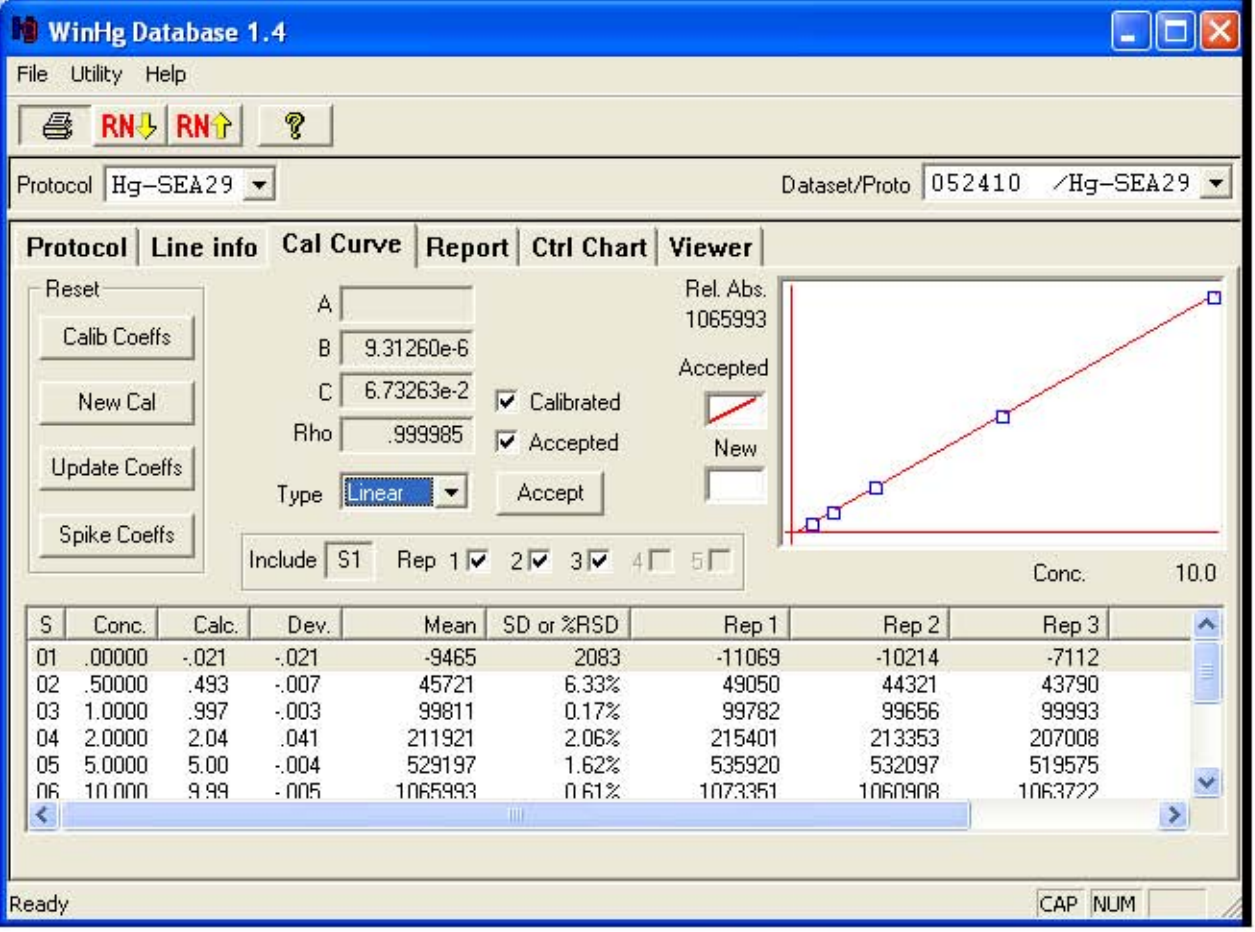
Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/28/2010 End Date: 05/29/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Lu	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
580-19393-18 DU	16:38	94									
580-19393-18 MS	16:44	96									
580-19393-18 MSD	16:50	95									
580-19393-18 PDS	16:56	95									
LCS 580-64514/22-A	17:02	96									
LCSD 580-64514/23-A	17:08	97									
LCSSRM	17:14	96									
CCV 580-64756/56	17:21	96		95							
CCB 580-64756/57	17:27	97		99							
580-19393-19	17:33	91									
580-19393-20	17:39	92									
580-19393-21	17:45	96									
CCV 580-64756/68	18:34	96		95							
CCB 580-64756/69	18:40	96		98							
ICSA 580-64756/171	05:05	84		76							
ICSAB 580-64756/172	05:11	84		76							

FORM XV - IN

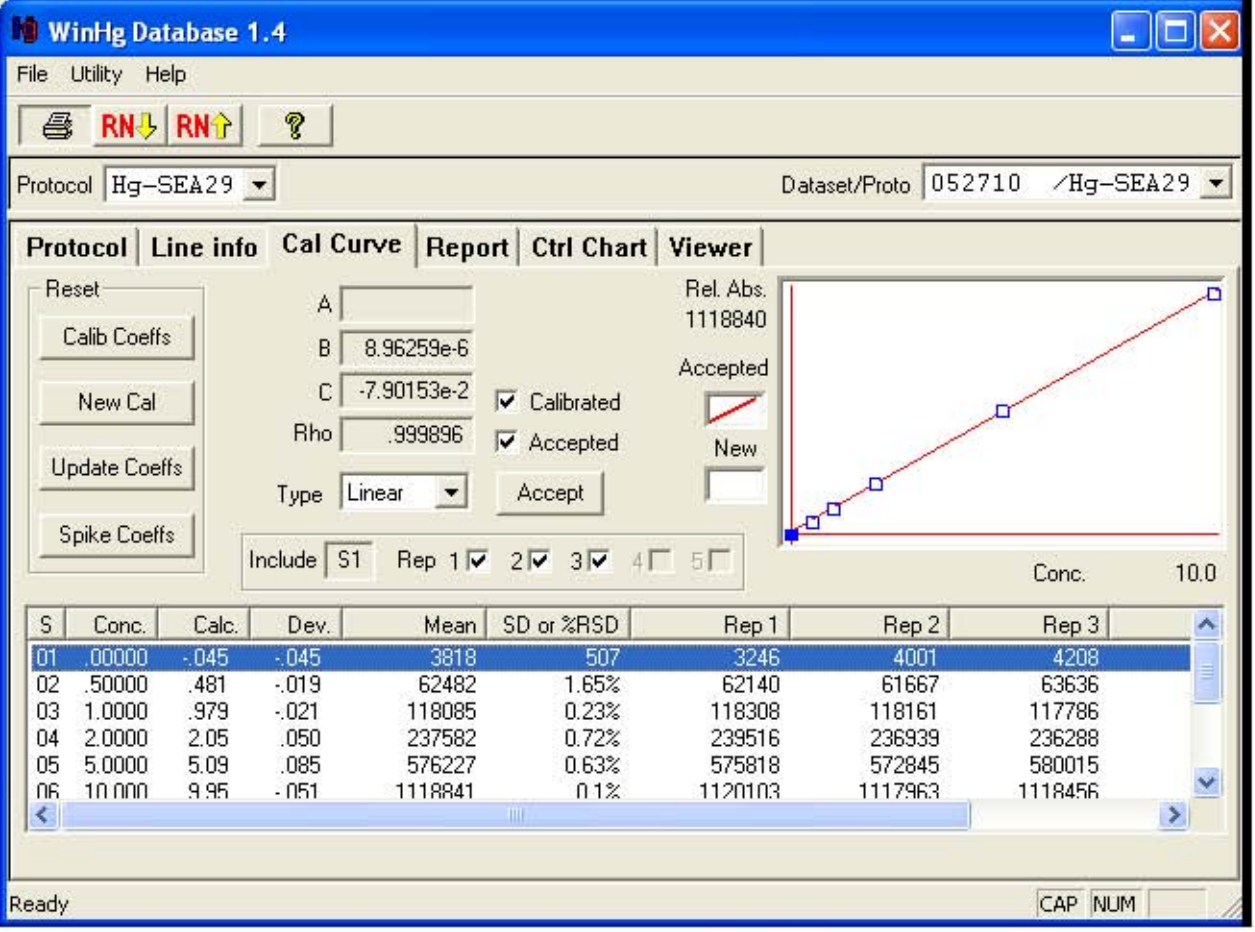

WinHg Database 1.4
File Utility Help
RN RN
Protocol Hg-SEA29
Dataset/Proto 052410 /Hg-SEA29
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 9.31260e-6
C 6.73263e-2
Rho .999985
Type Linear
Calibrated
Accepted
Accept
Rel. Abs.
1065993
Accepted
New
Include S1 Rep 1 2 3 4 5
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.021 -.021 -9465 2083 -11069 -10214 -7112
02 .50000 .493 -.007 45721 6.33% 49050 44321 43790
03 1.0000 .997 -.003 99811 0.17% 99782 99656 99993
04 2.0000 2.04 .041 211921 2.06% 215401 213353 207008
05 5.0000 5.00 -.004 529197 1.62% 535920 532097 519575
Ready
CAP NUM

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Standard: 1 Rep: 1             Seq:  275     07:47:28 26 May 10   HG

Hg    .000    PPB      -11069
                                                                      =
*** Standard: 1 Rep: 2             Seq:  276     07:51:47 26 May 10   HG

Hg    .000    PPB      -10214
                                                                      =
*** Standard: 1 Rep: 3             Seq:  277     07:56:27 26 May 10   HG

Hg    .000    PPB      -7112
                                                                      =
*** Standard: 2 Rep: 1             Seq:  278     08:00:48 26 May 10   HG

Hg    .500    PPB      49050
                                                                      =
*** Standard: 2 Rep: 2             Seq:  279     08:05:09 26 May 10   HG

Hg    .500    PPB      44321
                                                                      =
*** Standard: 2 Rep: 3             Seq:  280     08:09:27 26 May 10   HG

Hg    .500    PPB      43790
                                                                      =
*** Standard: 3 Rep: 1             Seq:  281     08:13:59 26 May 10   HG

Hg    1.00    PPB      99782
                                                                      =
*** Standard: 3 Rep: 2             Seq:  282     08:18:17 26 May 10   HG

Hg    1.00    PPB      99656
                                                                      =
*** Standard: 3 Rep: 3             Seq:  283     08:22:56 26 May 10   HG

Hg    1.00    PPB      99993
                                                                      =
*** Standard: 4 Rep: 1             Seq:  284     08:27:17 26 May 10   HG

Hg    2.00    PPB      215401
                                                                      =
*** Standard: 4 Rep: 2             Seq:  285     08:31:38 26 May 10   HG

Hg    2.00    PPB      213353
                                                                      =
*** Standard: 4 Rep: 3             Seq:  286     08:36:21 26 May 10   HG

Hg    2.00    PPB      207008
                                                                      =
*** Standard: 5 Rep: 1             Seq:  287     08:40:41 26 May 10   HG

Hg    5.00    PPB      535920
                                                                      =
*** Standard: 5 Rep: 2             Seq:  288     08:45:02 26 May 10   HG

Hg    5.00    PPB      532097
                                                                      =
*** Standard: 5 Rep: 3             Seq:  289     08:49:32 26 May 10   HG

Hg    5.00    PPB      519575
                                                                      =
*** Standard: 6 Rep: 1             Seq:  290     08:53:57 26 May 10   HG

Hg    10.0    PPB      1073351
                                                                      =
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Standard: 6 Rep: 2              Seq:  291     08:58:43 26 May 10   HG

Hg    10.0    PPB      1060908
                                                                              =
*** Standard: 6 Rep: 3              Seq:  292     09:03:04 26 May 10   HG

Hg    10.0    PPB      1063722
                                                                              =
*** Check Standard: 2  Ck24PPB      Seq:  293     09:07:37 26 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          99.6     3.98    4.00   PPB        .000
                                                                              =
*** Check Standard: 1  Ck1BLANK     Seq:  294     09:12:05 26 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.039     .200     PPB        .000
                                                                              =
*** Check Standard: 3  Ck30.2PPB    Seq:  295     09:16:27 26 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          88.7     .177    .200   PPB        .000
                                                                              =
*** Check Standard: 4  Ck45PPB      Seq:  296     09:20:47 26 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          102.     5.08    5.00   PPB        .000
                                                                              =
*** Check Standard: 1  Ck1BLANK     Seq:  297     09:27:38 26 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.007     .200     PPB        .000
                                                                              =
*** Sample ID: 580-519474            Seq:  298    09:32:07 26 May 10   HG
                            FCW(#SEA29)64215
Hg   -.010    PPB       .000     -.010
                                                                              =
==============================================================================
*** Sample ID: 580-519475            Seq:  299    09:36:25 26 May 10   HG
                            FCW(#SEA29)64215
Hg    2.04    PPB       .000      2.04
                                                                              =
==============================================================================
*** Sample ID: 580-519476            Seq:  300    09:41:25 26 May 10   HG
                            FCW(#SEA29)64215
Hg    2.03    PPB       .000      2.03
                                                                              =
==============================================================================
*** Sample ID: 580-519477            Seq:  301    09:45:45 26 May 10   HG
                            FCW(#SEA29) 2X
Hg    4.90    PPB       .000      4.90
                                                                              =
==============================================================================
*** Sample ID: 580-519454            Seq:  302    09:50:04 26 May 10   HG
                            FCW(#SEA29) 1X
Hg    .761    PPB       .000      .761
                                                                              =
==============================================================================
*** Sample ID: 580-519455            Seq:  303    09:54:25 26 May 10   HG
                            FCW(#SEA29) 1X
Hg    .765    PPB       .000      .765
                                                                              =
==============================================================================
*** Sample ID: 580-519456            Seq:  304    09:58:44 26 May 10   HG
                            FCW(#SEA29) 1X
Hg    3.48    PPB       .000      3.48
                                                                              =
==============================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: 580-519457            Seq:  305    10:03:05 26 May 10   HG
                            FCW(#SEA29) 1X
Hg    3.48    PPB       .000      3.48
                                                                                =
*** Check Standard: 4  Ck45PPB      Seq:  306     10:07:36 26 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          105.     5.24    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1BLANK     Seq:  307     10:12:07 26 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.022     .200     PPB        .000
                                                                                =
*** Sample ID: 580-519458            Seq:  308    10:16:28 26 May 10   HG
                            FCW(#SEA29) 1000X
Hg    2.78    PPB       .000      2.78
                                                                                =
================================================================================
*** Sample ID: 580-519463            Seq:  313    10:38:43 26 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .506    PPB       .000      .506
                                                                                =
================================================================================
*** Sample ID: 580-519464            Seq:  314    10:43:04 26 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .850    PPB       .000      .850
                                                                                =
================================================================================
*** Sample ID: 580-519465            Seq:  315    10:47:23 26 May 10   HG
                            FCW(#SEA29) 1000X
Hg    3.29    PPB       .000      3.29
                                                                                =
================================================================================
*** Sample ID: 580-519466            Seq:  316    10:51:43 26 May 10   HG
                            FCW(#SEA29) 1000X
Hg    2.13    PPB       .000      2.13
                                                                                =
================================================================================
*** Sample ID: 580-519467            Seq:  317    10:56:03 26 May 10   HG
                            FCW(#SEA29) 1000X
Hg    10.8    PPB       .000      10.8
                                                                                =
*** Check Standard: 4  Ck45PPB      Seq:  318     11:00:35 26 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          100.     5.02    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1BLANK     Seq:  319     11:04:53 26 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.039     .200     PPB        .000
                                                                                =
*** Sample ID: 580-519471            Seq:  323    11:23:02 26 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .696    PPB       .000      .696
                                                                                =
================================================================================
*** Sample ID: 580-519472            Seq:  324    11:27:43 26 May 10   HG
                            FCW(#SEA29) 1000X
Hg    7.15    PPB       .000      7.15
                                                                                =
================================================================================
*** Sample ID: 580-519473            Seq:  325    11:33:02 26 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .352    PPB       .000      .352
                                                                                =
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Check Standard: 4  Ck45PPB      Seq:  326     11:37:30 26 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.14    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1BLANK     Seq:  327     11:41:51 26 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.026     .200     PPB        .000
                                                                                =
*** Sample ID: 580-519459           Seq:  328    11:46:19 26 May 10   HG
                            FCW(#SEA29) 10X
Hg    9.69    PPB       .000      9.69
                                                                                =
================================================================================
*** Sample ID: 580-519460           Seq:  329    11:50:39 26 May 10   HG
                            FCW(#SEA29) 10X
Hg    4.08    PPB       .000      4.08
                                                                                =
================================================================================
*** Sample ID: 580-519462           Seq:  331    11:59:45 26 May 10   HG
                            FCW(#SEA29) 10X
Hg    3.16    PPB       .000      3.16
                                                                                =
================================================================================
*** Sample ID: 580-519467           Seq:  332    12:04:30 26 May 10   HG
                            FCW(#SEA29) 10000X
Hg    1.11    PPB       .000      1.11
                                                                                =
================================================================================
*** Sample ID: 580-519468           Seq:  333    12:08:51 26 May 10   HG
                            FCW(#SEA29) 10X
Hg    5.41    PPB       .000      5.41
                                                                                =
================================================================================
*** Sample ID: 580-519469           Seq:  334    12:13:13 26 May 10   HG
                            FCW(#SEA29) 10X
Hg    3.22    PPB       .000      3.22
                                                                                =
================================================================================
*** Sample ID: 580-519470           Seq:  335    12:17:35 26 May 10   HG
                            FCW(#SEA29) 10X
Hg    3.74    PPB       .000      3.74
                                                                                =
================================================================================
*** Sample ID: 580-519461           Seq:  336    12:22:05 26 May 10   HG
                            FCW(#SEA29) 1X
Hg    1.10    PPB       .000      1.10
                                                                                =
*** Check Standard: 4  Ck45PPB      Seq:  337     12:26:30 26 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          107.     5.33    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1BLANK     Seq:  338     12:30:50 26 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.021     .200     PPB        .000
                                                                                =
```


WinHg Database 1.4
File Utility Help
RN RN
Protocol Hg-SEA29
Dataset/Proto 052710 /Hg-SEA29
Protocol Line info Cal Curve Report Ctrl Chart Viewer
Reset
Calib Coeffs
New Cal
Update Coeffs
Spike Coeffs
A
B 8.96259e-6
C -7.90153e-2
Rho .999896
Type Linear
Calibrated
Accepted
Accept
Rel. Abs.
1118840
Accepted
New
Include S1 Rep 1 2 3 4 5
Conc. 10.0
S Conc. Calc. Dev. Mean SD or %RSD Rep 1 Rep 2 Rep 3
01 .00000 -.045 -.045 3818 507 3246 4001 4208
02 .50000 .481 -.019 62482 1.65% 62140 61667 63636
03 1.0000 .979 -.021 118085 0.23% 118308 118161 117786
04 2.0000 2.05 .050 237582 0.72% 239516 236939 236288
05 5.0000 5.09 .085 576227 0.63% 575818 572845 580015
Ready
CAP NUM

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Standard: 1 Rep: 1             Seq:  0       08:41:29 27 May 10   HG

Hg    .000    PPB      3246
                                                                      =
*** Standard: 1 Rep: 2             Seq:  1       08:45:58 27 May 10   HG

Hg    .000    PPB      4001
                                                                      =
*** Standard: 1 Rep: 3             Seq:  2       08:50:18 27 May 10   HG

Hg    .000    PPB      4208
                                                                      =
*** Standard: 2 Rep: 1             Seq:  3       08:54:57 27 May 10   HG

Hg    .500    PPB      62140
                                                                      =
*** Standard: 2 Rep: 2             Seq:  4       08:59:16 27 May 10   HG

Hg    .500    PPB      61667
                                                                      =
*** Standard: 2 Rep: 3             Seq:  5       09:03:38 27 May 10   HG

Hg    .500    PPB      63636
                                                                      =
*** Standard: 3 Rep: 1             Seq:  6       09:08:32 27 May 10   HG

Hg    1.00    PPB      118308
                                                                      =
*** Standard: 3 Rep: 2             Seq:  7       09:12:52 27 May 10   HG

Hg    1.00    PPB      118161
                                                                      =
*** Standard: 3 Rep: 3             Seq:  8       09:17:35 27 May 10   HG

Hg    1.00    PPB      117786
                                                                      =
*** Standard: 4 Rep: 1             Seq:  9       09:21:57 27 May 10   HG

Hg    2.00    PPB      239516
                                                                      =
*** Standard: 4 Rep: 2             Seq:  10      09:26:17 27 May 10   HG

Hg    2.00    PPB      236939
                                                                      =
*** Standard: 4 Rep: 3             Seq:  11      09:30:40 27 May 10   HG

Hg    2.00    PPB      236288
                                                                      =
*** Standard: 5 Rep: 1             Seq:  12      09:35:04 27 May 10   HG

Hg    5.00    PPB      575818
                                                                      =
*** Standard: 5 Rep: 2             Seq:  13      09:39:25 27 May 10   HG

Hg    5.00    PPB      572845
                                                                      =
*** Standard: 5 Rep: 3             Seq:  14      09:43:49 27 May 10   HG

Hg    5.00    PPB      580015
                                                                      =
*** Standard: 6 Rep: 1             Seq:  15      09:48:13 27 May 10   HG

Hg    10.0    PPB      1120102
                                                                      =
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-------------------------------------------------------------------------------

*** Standard: 6 Rep: 2              Seq:  16      09:52:46 27 May 10   HG

Hg    10.0    PPB      1117963
                                                                          =
*** Standard: 6 Rep: 3              Seq:  17      09:57:16 27 May 10   HG

Hg    10.0    PPB      1118456
                                                                          =
*** Check Standard: 2  Ck24PPB      Seq:  18      10:01:36 27 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          105.     4.19    4.00   PPB        .000
                                                                          =
*** Check Standard: 1  Ck1BLANK     Seq:  19      10:05:59 27 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.074     .200     PPB        .000
                                                                          =
*** Check Standard: 3  Ck30.2PPB    Seq:  20      10:10:37 27 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          61.8     .124    .200   PPB        .000
                                                                          =
*** Check Standard: 4  Ck4  5PPB    Seq:  32      12:44:45 27 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          96.1     4.80    5.00   PPB        .000
                                                                          =
*** Check Standard: 1  Ck1  BLANK   Seq:  33      12:49:07 27 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.070     .200     PPB        .000
                                                                          =
*** Sample ID: 580-521891            Seq:  34     12:54:04 27 May 10   HG
                           FCW(#SEA29)64500
Hg   -.066    PPB       .000     -.066
                                                                          =
===============================================================================
*** Sample ID: 580-521892            Seq:  35     12:58:22 27 May 10   HG
                           FCW(#SEA29)64500
Hg    1.92    PPB       .000      1.92
                                                                          =
===============================================================================
*** Sample ID: 580-521893            Seq:  36     13:03:04 27 May 10   HG
                           FCW(#SEA29)64500
Hg    1.95    PPB       .000      1.95
                                                                          =
===============================================================================
*** Sample ID: 580-521894            Seq:  37     13:07:33 27 May 10   HG
                           FCW(#SEA29) 2X
Hg    6.47    PPB       .000      6.47
                                                                          =
===============================================================================
*** Sample ID: 580-521868            Seq:  40     13:23:05 27 May 10   HG
                           FCW(#SEA29) 10X
Hg    4.61    PPB       .000      4.61
                                                                          =
===============================================================================
*** Sample ID: 580-521869            Seq:  41     13:28:47 27 May 10   HG
                           FCW(#SEA29) 10X
Hg    4.03    PPB       .000      4.03
                                                                          =
===============================================================================
*** Sample ID: 580-521870            Seq:  42     13:33:17 27 May 10   HG
                           FCW(#SEA29) 10X
Hg    4.84    PPB       .000      4.84
                                                                          =
===============================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: 580-521871            Seq:  43     13:37:47 27 May 10   HG
                            FCW(#SEA29) 10X
Hg    4.85    PPB       .000      4.85
                                                                                =
*** Check Standard: 4  Ck4  5PPB    Seq:  44      13:42:26 27 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          108.     5.38    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1  BLANK   Seq:  45      13:46:50 27 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.066     .200     PPB        .000
                                                                                =
*** Sample ID: 580-521872            Seq:  46     13:51:09 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .238    PPB       .000      .238
                                                                                =
================================================================================
*** Sample ID: 580-521877            Seq:  51     14:14:11 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .600    PPB       .000      .600
                                                                                =
================================================================================
*** Sample ID: 580-521879            Seq:  53     14:23:04 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    1.70    PPB       .000      1.70
                                                                                =
================================================================================
*** Sample ID: 580-521880            Seq:  54     14:27:26 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .382    PPB       .000      .382
                                                                                =
================================================================================
*** Sample ID: 580-521881            Seq:  55     14:31:45 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .560    PPB       .000      .560
                                                                                =
*** Check Standard: 4  Ck4  5PPB    Seq:  56      14:36:04 27 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.14    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1  BLANK   Seq:  57      14:40:26 27 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.068     .200     PPB        .000
                                                                                =
*** Sample ID: 580-521882            Seq:  58     14:44:45 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    1.59    PPB       .000      1.59
                                                                                =
================================================================================
*** Sample ID: 580-521883            Seq:  59     14:49:04 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    2.36    PPB       .000      2.36
                                                                                =
================================================================================
*** Sample ID: 580-521886            Seq:  62     15:03:41 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .434    PPB       .000      .434
                                                                                =
================================================================================
*** Sample ID: 580-521888            Seq:  64     15:12:22 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    1.30    PPB       .000      1.30
                                                                                =
================================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: 580-521889            Seq:  65     15:16:42 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    1.64    PPB       .000      1.64
                                                                                =
================================================================================
*** Sample ID: 580-521890            Seq:  66     15:21:06 27 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .889    PPB       .000      .889
                                                                                =
*** Check Standard: 4  Ck4  5PPB    Seq:  67      15:25:31 27 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          105.     5.25    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1  BLANK   Seq:  68      15:30:01 27 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.078     .200     PPB        .000
                                                                                =
*** Sample ID: 580-521875            Seq:  71     15:43:18 27 May 10   HG
                            FCW(#SEA29) 10X
Hg    3.47    PPB       .000      3.47
                                                                                =
================================================================================
*** Sample ID: 580-521876            Seq:  72     15:47:47 27 May 10   HG
                            FCW(#SEA29) 10X
Hg    11.1    PPB       .000      11.1
                                                                                =
================================================================================
*** Sample ID: 580-521878            Seq:  73     15:52:08 27 May 10   HG
                            FCW(#SEA29) 10X
Hg    3.96    PPB       .000      3.96
                                                                                =
================================================================================
*** Sample ID: 580-521884            Seq:  74     15:56:29 27 May 10   HG
                            FCW(#SEA29) 100X
Hg    1.80    PPB       .000      1.80
                                                                                =
================================================================================
*** Sample ID: 580-521885            Seq:  76     16:07:32 27 May 10   HG
                            FCW(#SEA29) 10000X
Hg    5.48    PPB       .000      5.48
                                                                                =
================================================================================
*** Sample ID: 580-521887            Seq:  77     16:11:52 27 May 10   HG
                            FCW(#SEA29) 10000X
Hg    1.37    PPB       .000      1.37
                                                                                =
================================================================================
*** Sample ID: 580-521873            Seq:  78     16:17:02 27 May 10   HG
                            FCW(#SEA29) 1X
Hg    1.24    PPB       .000      1.24
                                                                                =
================================================================================
*** Sample ID: 580-521874            Seq:  79     16:21:20 27 May 10   HG
                            FCW(#SEA29) 1X
Hg    .040    PPB       .000      .040
                                                                                =
*** Check Standard: 4  Ck4  5PPB    Seq:  80      16:26:11 27 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          103.     5.13    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1  BLANK   Seq:  81      16:30:29 27 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.043     .200     PPB        .000
                                                                                =
```

Step	Mass	Element	r	b(blank)	DL	BEC	Unit
3	6	Li	0.0000	--- ---	---	ug/l	
3	7	Li	0.0000	--- ---	---	ug/l	
3	9	Be	1.0000	6.580E-05	2.764E-03	1.064E-03	ug/l
2	23	Na	1.0000	16.67 2.657	93.68	ug/l	
2	24	Mg	0.9999	4.446E-02	2.023E-01	4.450E-01	ug/l
2	27	Al	1.0000	2.677E-02	2.105E-01	5.211E-01	ug/l
2	31	P	1.0000	9.432E-02	3.696	26.70	ug/l
2	39	K	1.0000	14.60 8.303	170.0	ug/l	
2	44	Ca	1.0000	1.748E-02	3.043	4.281	ug/l
1	45	Sc	0.0000	--- ---	---	ug/l	
2	45	Sc	0.0000	--- ---	---	ug/l	
2	47	Ti	1.0000	2.437E-04	1.412E-02	1.078E-02	ug/l
2	51	V	1.0000	1.967E-01	9.004E-02	3.712E-01	ug/l
2	52	Cr	1.0000	1.418E-01	5.091E-02	2.278E-01	ug/l
2	54	Fe	0.9999	6.901E-02	2.021E-01	3.406	ug/l
2	55	Mn	1.0000	1.107E-02	6.777E-03	2.430E-02	ug/l
2	59	Co	1.0000	1.830E-03	5.846E-03	2.229E-03	ug/l
2	60	Ni	0.9999	1.644E-02	7.053E-02	7.936E-02	ug/l
2	63	Cu	1.0000	1.888E-02	2.394E-02	3.513E-02	ug/l
2	66	Zn	1.0000	1.759E-02	1.999E-01	1.398E-01	ug/l
1	74	Ge	0.0000	--- ---	---	ug/l	
2	74	Ge	0.0000	--- ---	---	ug/l	
3	74	Ge	0.0000	--- ---	---	ug/l	
2	75	As	1.0000	9.074E-03	5.498E-02	1.660E-01	ug/l
2	78	Se	0.9999	3.953E-03	1.057	7.562E-01	ug/l
3	88	Sr	1.0000	4.386E-03	8.389E-03	9.916E-03	ug/l
3	95	Mo	1.0000	1.297E-03	2.350E-02	1.453E-02	ug/l
2	103	Rh	0.0000	--- ---	---	ug/l	
3	103	Rh	0.0000	--- ---	---	ug/l	
3	107	Ag	1.0000	1.519E-03	9.669E-03	5.224E-03	ug/l
3	111	Cd	1.0000	3.862E-04	8.935E-03	5.537E-03	ug/l
3	118	Sn	0.9998	2.935E-03	9.511E-03	1.598E-02	ug/l
3	121	Sb	0.9999	3.365E-03	5.020E-03	1.172E-02	ug/l
3	135	Ba	1.0000	9.767E-04	1.827E-02	1.851E-02	ug/l
3	165	Ho	0.0000	--- ---	---	ug/l	
3	175	Lu	0.0000	--- ---	---	ug/l	
3	200	Hg	0.9999	1.924E-04	6.194E-03	9.614E-03	ug/l
3	205	Tl	1.0000	6.629E-03	5.853E-03	3.749E-02	ug/l
3	208	Pb	1.0000	2.581E-03	5.917E-03	1.058E-02	ug/l
3	209	Bi	0.0000	--- ---	---	ug/l	
3	238	U	1.0000	5.254E-04	1.153E-03	1.744E-03	ug/l

TA Seattle/Tacoma Calibration Blank QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#
Date Acquired: May 27 2010 01:27 pm Acq. Method: 0NEW_ALL.M
Sample Name: STD0 Vial Number: 1306
Misc Info:
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : ---

Tune #	Name
1	c:\icpchem\1\7500\h2.u
2	c:\icpchem\1\7500\he.u
3	c:\icpchem\1\7500\nogas.u

Sample Type: CalBlk

QC&ISTD Elements

Element		Tune	CPS Mean		SD	RSD(%)
6	Li	3	5118511.0	A	93130.00	1.82
7	Li	3	782070.6	P	4332.00	0.55
9	Be	3	6.7	P	5.77	86.61
23	Na	2	91316.3	P	232.10	0.25
24	Mg	2	243.3	P	35.12	14.43
25	Mg	2		P		
26	Mg	2		P		
27	Al	2	146.7	P	20.21	13.78
31	P	2	516.7	P	25.17	4.87
39	K	2	79996.8	P	2228.00	2.79
40	Ca	1		P		
44	Ca	2	95.6	P	21.67	22.67
45	Sc	1	341365.8	P	3693.00	1.08
45	Sc	2	273883.5	P	3248.00	1.19
45	Sc	3		A		
47	Ti	2	1.3	P	0.58	43.31
50	V	2		P		
51	V	2	1076.8	P	75.72	7.03
52	Cr	2	776.7	P	56.87	7.32
53	Cr	2		P		
54	Fe	1		P		
54	Fe	2	583.4	P	15.27	2.62
55	Mn	2	60.7	P	5.77	9.52
56	Fe	1		P		
59	Co	2	10.0	P	8.72	87.18
60	Ni	2	90.0	P	26.46	29.40
61	Ni	2		P		
63	Cu	2	103.3	P	23.09	22.34
65	Cu	2		P		
66	Zn	2	96.7	P	47.26	48.89
67	Zn	2		P		
68	Zn	2		P		
74	Ge	1	283565.0	P	2306.00	0.81
74	Ge	2	422608.5	P	3160.00	0.75
74	Ge	3	1674050.0	A	11490.00	0.69
75	As	2	76.7	P	8.08	10.54
78	Se	1		P		
78	Se	2	33.3	P	15.28	45.84
88	Sr	2		P		
88	Sr	3	146.7	P	40.42	27.56
95	Mo	3	43.3	P	23.09	53.28
98	Mo	3		P		
99	(Mo)	3		P		
103	Rh	2	814900.3	P	8323.00	1.02
103	Rh	3	1534914.0	A	13520.00	0.88
106	(Cd)	3		P		
107	Ag	3	46.7	P	28.87	61.86
108	(Cd)	3		P		
109	Ag	3		P		
111	Cd	3	11.9	P	6.48	54.55
114	Cd	3		P		
118	Sn	2		P		
118	Sn	3	90.0	P	17.32	19.24
120	Sn	3		P		
121	Sb	3	103.3	P	15.28	14.79
123	Sb	3		P		
135	Ba	3	30.0	P	10.00	33.33
137	Ba	3		P		
165	Ho	3	3236273.0	A	25500.00	0.79
175	Lu	3	3583586.0	A	15250.00	0.43
200	Hg	3	29.3	P	6.43	21.92
201	Hg	3		P		
202	Hg	3		P		
203	Tl	3		P		
205	Tl	3	1010.1	P	51.97	5.15
206	Pb	3		P		
207	Pb	3		P		
208	Pb	3	393.4	P	73.72	18.74
209	Bi	3	7619304.0	A	40390.00	0.53
238	U	3	80.0	P	17.32	21.65

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052710C.B\007CALS.D\007CALS.D#
Date Acquired: May 27 2010 01:33 pm
Acq. Method: 0NEW_ALL.M
Sample Name: **STD1**
Vial Number: 1305
Misc Info: Hg(0.005PPB),Al(1PPB),Na(10PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

QC&ISTD Elements
Sample Type: CalStd

Element		IS	T#	CPS Mean	SD	RSD(%)
9	Be	6	3	601.7 P	88.37	14.69
23	Na	45	2	103793.5 P	334.40	0.32
24	Mg	45	2	5658.1 P	200.40	3.54
27	Al	45	2	661.7 P	37.53	5.67
31	P	45	2	590.0 P	96.44	16.35
39	K	45	2	84475.7 P	936.20	1.11
44	Ca	45	2	341.5 P	61.43	17.99
47	Ti	45	2	14.0 P	0.00	0.00
51	V	45	2	1456.8 P	87.37	6.00
52	Cr	45	2	850.1 P	150.00	17.65
54	Fe	74	2	2217.0 P	295.80	13.34
55	Mn	45	2	345.3 P	10.26	2.97
59	Co	45	2	453.3 P	46.88	10.34
60	Ni	45	2	230.0 P	43.59	18.95
63	Cu	45	2	466.7 P	119.30	25.56
66	Zn	45	2	213.3 P	46.19	21.65
75	As	74	2	104.0 P	7.21	6.93
78	Se	74	2	20.0 P	10.00	50.00
88	Sr	74	3	1653.5 P	107.90	6.53
95	Mo	74	3	343.4 P	68.07	19.83
107	Ag	103	3	890.1 P	51.97	5.84
111	Cd	103	3	202.3 P	23.05	11.40
118	Sn	103	3	696.7 P	57.74	8.29
121	Sb	103	3	833.4 P	50.34	6.04
135	Ba	103	3	146.7 P	25.17	17.16
200	Hg	209	3	67.3 P	2.31	3.43
205	Tl	209	3	3377.3 P	173.90	5.15
208	Pb	209	3	4103.8 P	338.40	8.25
238	U	209	3	4471.1 P	130.80	2.93

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	5062281	0.51	5119000	98.9	30 - 120	
45	Sc	1	352245	0.90	341400	103.2	30 - 120	
45	Sc	2	273290	0.41	273900	99.8	30 - 120	
74	Ge	1	294163	1.74	283600	103.7	30 - 120	
74	Ge	2	423611	1.14	422600	100.2	30 - 120	
74	Ge	3	1668140	1.41	1674000	99.6	30 - 120	
103	Rh	2	812206	1.25	814900	99.7	30 - 120	
103	Rh	3	1550945	1.31	1535000	101.0	30 - 120	
165	Ho	3	3175224	0.37	3236000	98.1	30 - 120	
175	Lu	3	3576534	0.99	3584000	99.8	30 - 120	
209	Bi	3	7622385	1.12	7619000	100.0	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**
0 :Element Failures **:Max. Number of Failures Allowed**
0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052710C.B\008CALS.D\008CALS.D#
Date Acquired: May 27 2010 01:39 pm
Acq. Method: 0NEW_ALL.M
Sample Name: **STD2**
Vial Number: 1304
Misc Info: Hg(0.05PPB),Al(10PPB),Na(100PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

QC&ISTD Elements
Sample Type: CalStd

Element		IS	T#	CPS Mean	SD	RSD(%)
9	Be	6	3	6079.9 P	81.04	1.33
23	Na	45	2	194986.1 P	1527.00	0.78
24	Mg	45	2	56350.7 P	706.60	1.25
27	Al	45	2	3002.1 P	62.53	2.08
31	P	45	2	2206.9 P	161.70	7.33
39	K	45	2	126955.9 P	2223.00	1.75
44	Ca	45	2	2142.5 P	125.80	5.87
47	Ti	45	2	131.0 P	7.21	5.50
51	V	45	2	3877.4 P	292.90	7.55
52	Cr	45	2	4090.8 P	200.80	4.91
54	Fe	74	2	18384.0 P	1095.00	5.96
55	Mn	45	2	2576.9 P	104.70	4.06
59	Co	45	2	4501.5 P	116.70	2.59
60	Ni	45	2	1376.8 P	150.10	10.90
63	Cu	45	2	3140.5 P	45.84	1.46
66	Zn	45	2	893.4 P	113.70	12.73
75	As	74	2	498.0 P	24.98	5.02
78	Se	74	2	86.7 P	45.09	52.03
88	Sr	74	3	14746.0 P	399.90	2.71
95	Mo	74	3	2963.8 P	160.70	5.42
107	Ag	103	3	9143.7 P	120.10	1.31
111	Cd	103	3	1939.1 P	116.90	6.03
118	Sn	103	3	5661.5 P	321.00	5.67
121	Sb	103	3	8463.3 P	342.50	4.05
135	Ba	103	3	1686.9 P	80.85	4.79
200	Hg	209	3	216.7 P	12.86	5.94
205	Tl	209	3	26457.8 P	80.19	0.30
208	Pb	209	3	37882.2 P	474.30	1.25
238	U	209	3	44655.1 P	2080.00	4.66

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	5174031	0.99	5119000	101.1	30 - 120	
45	Sc	1	343529	0.85	341400	100.6	30 - 120	
45	Sc	2	272774	1.31	273900	99.6	30 - 120	
74	Ge	1	285827	2.86	283600	100.8	30 - 120	
74	Ge	2	423337	0.81	422600	100.2	30 - 120	
74	Ge	3	1645535	1.03	1674000	98.3	30 - 120	
103	Rh	2	811655	0.97	814900	99.6	30 - 120	
103	Rh	3	1527763	0.79	1535000	99.5	30 - 120	
165	Ho	3	3211206	1.81	3236000	99.2	30 - 120	
175	Lu	3	3608646	1.19	3584000	100.7	30 - 120	
209	Bi	3	7601009	0.19	7619000	99.8	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**
0 :Element Failures **:Max. Number of Failures Allowed**
0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052710C.B\009CALS.D\009CALS.D#
Date Acquired: May 27 2010 01:45 pm
Acq. Method: 0NEW_ALL.M
Sample Name: **STD3**
Vial Number: 1303
Misc Info: Hg(0.5PPB),Al(100PPB),Na(1,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

QC&ISTD Elements
Sample Type: CalStd

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	59736.9	P	1121.00	1.88
23	Na	45	2	1073665.0	A	10600.00	0.99
24	Mg	45	2	562759.6	P	5533.00	0.98
27	Al	45	2	27175.7	P	299.30	1.10
31	P	45	2	18907.9	P	515.00	2.72
39	K	45	2	553661.5	P	6737.00	1.22
44	Ca	45	2	21671.3	P	293.10	1.35
47	Ti	45	2	1193.4	P	39.17	3.28
51	V	45	2	29411.7	P	620.30	2.11
52	Cr	45	2	33836.3	P	50.09	0.15
54	Fe	74	2	171454.4	P	2026.00	1.18
55	Mn	45	2	24303.3	P	335.20	1.38
59	Co	45	2	44066.4	P	530.90	1.20
60	Ni	45	2	11298.8	P	147.50	1.31
63	Cu	45	2	29595.7	P	500.50	1.69
66	Zn	45	2	6548.6	P	231.70	3.54
75	As	74	2	4549.5	P	35.25	0.77
78	Se	74	2	430.0	P	91.66	21.32
88	Sr	74	3	144411.2	P	3518.00	2.44
95	Mo	74	3	29382.7	P	1237.00	4.21
107	Ag	103	3	87354.3	P	1176.00	1.35
111	Cd	103	3	20493.9	P	964.60	4.71
118	Sn	103	3	56432.4	P	6023.00	10.67
121	Sb	103	3	82956.3	P	2370.00	2.86
135	Ba	103	3	15463.8	P	683.40	4.42
200	Hg	209	3	1498.1	P	47.29	3.16
205	Tl	209	3	258011.7	P	8786.00	3.41
208	Pb	209	3	368955.5	P	11790.00	3.20
238	U	209	3	446908.4	P	14670.00	3.28

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4999689	0.20	5119000	97.7	30 - 120	
45	Sc	1	341283	1.04	341400	100.0	30 - 120	
45	Sc	2	266342	1.19	273900	97.2	30 - 120	
74	Ge	1	281881	2.79	283600	99.4	30 - 120	
74	Ge	2	414901	0.94	422600	98.2	30 - 120	
74	Ge	3	1650836	1.10	1674000	98.6	30 - 120	
103	Rh	2	791359	0.84	814900	97.1	30 - 120	
103	Rh	3	1521050	1.11	1535000	99.1	30 - 120	
165	Ho	3	3197063	0.51	3236000	98.8	30 - 120	
175	Lu	3	3531061	0.52	3584000	98.5	30 - 120	
209	Bi	3	7476858	0.38	7619000	98.1	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**
0 :Element Failures **:Max. Number of Failures Allowed**
0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052710C.B\010CALS.D\010CALS.D#
Date Acquired: May 27 2010 01:51 pm
Acq. Method: 0NEW_ALL.M
Sample Name: **STD4**
Vial Number: 1302
Misc Info: Hg(2.5PPB),Al(500PPB),Na(5,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

Sample Type: CalStd

QC&ISTD Elements

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	297674.2	P	5834.00	1.96
23	Na	45	2	4799262.0	A	84470.00	1.76
24	Mg	45	2	2686047.0	A	28130.00	1.05
27	Al	45	2	135451.9	P	1925.00	1.42
31	P	45	2	93520.6	P	864.70	0.92
39	K	45	2	2349437.0	A	16670.00	0.71
44	Ca	45	2	107218.3	P	1959.00	1.83
47	Ti	45	2	5972.4	P	16.38	0.27
51	V	45	2	139384.0	P	2680.00	1.92
52	Cr	45	2	164834.0	P	2282.00	1.38
54	Fe	74	2	849811.6	P	5733.00	0.67
55	Mn	45	2	120879.9	P	575.00	0.48
59	Co	45	2	218924.0	P	1453.00	0.66
60	Ni	45	2	55674.4	P	1152.00	2.07
63	Cu	45	2	143239.2	P	3215.00	2.24
66	Zn	45	2	33154.6	P	803.80	2.42
75	As	74	2	22416.1	P	256.80	1.15
78	Se	74	2	2193.6	P	217.40	9.91
88	Sr	74	3	716564.8	P	5826.00	0.81
95	Mo	74	3	146479.0	P	2879.00	1.97
107	Ag	103	3	424768.8	P	2287.00	0.54
111	Cd	103	3	101768.3	P	3424.00	3.36
118	Sn	103	3	262905.3	P	5843.00	2.22
121	Sb	103	3	414434.8	P	4205.00	1.01
135	Ba	103	3	76686.9	P	1509.00	1.97
200	Hg	209	3	7258.3	P	46.16	0.64
205	Tl	209	3	1289895.0	P	29720.00	2.30
208	Pb	209	3	1806052.0	P	27080.00	1.50
238	U	209	3	2196869.0	A	44700.00	2.03

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4875339	2.14	5119000	95.2	30 - 120	
45	Sc	1	338769	0.35	341400	99.2	30 - 120	
45	Sc	2	263186	0.36	273900	96.1	30 - 120	
74	Ge	1	280700	0.41	283600	99.0	30 - 120	
74	Ge	2	409290	0.41	422600	96.9	30 - 120	
74	Ge	3	1646917	2.38	1674000	98.4	30 - 120	
103	Rh	2	772293	0.55	814900	94.8	30 - 120	
103	Rh	3	1475415	0.95	1535000	96.1	30 - 120	
165	Ho	3	3203164	1.23	3236000	99.0	30 - 120	
175	Lu	3	3559400	1.60	3584000	99.3	30 - 120	
209	Bi	3	7357085	0.98	7619000	96.6	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052710C.B\011CALS.D\011CALS.D#
Date Acquired: May 27 2010 01:57 pm
Acq. Method: 0NEW_ALL.M
Sample Name: **STD5**
Vial Number: 1301
Misc Info: Hg(5PPB) Al(1,000PPB)Na(10,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

QC&ISTD Elements
Sample Type: CalStd

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	585496.1	P	4607.00	0.79
23	Na	45	2	9371905.0	A	176300.00	1.88
24	Mg	45	2	5191682.0	A	56670.00	1.09
27	Al	45	2	268582.7	P	411.00	0.15
31	P	45	2	185176.7	P	1659.00	0.90
39	K	45	2	4558714.0	A	19400.00	0.43
44	Ca	45	2	213614.0	P	3991.00	1.87
47	Ti	45	2	11810.8	P	114.70	0.97
51	V	45	2	278540.5	P	1154.00	0.41
52	Cr	45	2	326083.0	P	2495.00	0.77
54	Fe	74	2	1629538.0	A	24610.00	1.51
55	Mn	45	2	237879.6	P	406.20	0.17
59	Co	45	2	427780.0	P	2849.00	0.67
60	Ni	45	2	107778.7	P	722.50	0.67
63	Cu	45	2	279949.2	P	1063.00	0.38
66	Zn	45	2	65920.6	P	686.70	1.04
75	As	74	2	44327.4	P	366.60	0.83
78	Se	74	2	4254.2	P	115.90	2.72
88	Sr	74	3	1451590.0	A	4081.00	0.28
95	Mo	74	3	291880.0	P	1092.00	0.37
107	Ag	103	3	843155.5	P	8296.00	0.98
111	Cd	103	3	202255.3	P	2321.00	1.15
118	Sn	103	3	534998.1	P	5447.00	1.02
121	Sb	103	3	834778.6	P	11220.00	1.34
135	Ba	103	3	153260.6	P	2371.00	1.55
200	Hg	209	3	14583.2	P	268.90	1.84
205	Tl	209	3	2567865.0	A	36750.00	1.43
208	Pb	209	3	3528893.0	A	11320.00	0.32
238	U	209	3	4371733.0	A	22620.00	0.52

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4716952	2.13	5119000	92.1	30 - 120	
45	Sc	1	345585	0.58	341400	101.2	30 - 120	
45	Sc	2	261347	0.54	273900	95.4	30 - 120	
74	Ge	1	286700	0.60	283600	101.1	30 - 120	
74	Ge	2	404576	0.89	422600	95.7	30 - 120	
74	Ge	3	1633875	0.71	1674000	97.6	30 - 120	
103	Rh	2	750913	0.23	814900	92.1	30 - 120	
103	Rh	3	1445575	1.12	1535000	94.2	30 - 120	
165	Ho	3	3184737	1.10	3236000	98.4	30 - 120	
175	Lu	3	3568166	1.15	3584000	99.6	30 - 120	
209	Bi	3	7242621	1.56	7619000	95.1	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**
0 :Element Failures **:Max. Number of Failures Allowed**
0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\014SMPL.D\014SMPL.D#
Date Acquired: May 27 2010 02:16 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICV Vial Number: 1105
Misc Info: Hg(2 PPB),Al(400 PPB),Na(4,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**40.240**	ug/l	40.24	2.1	450	6	P	
23	**Na**	2	**4026.000**	ug/l	4,026.00	1.5	450000	45	A	
24	**Mg**	2	**4096.000**	ug/l	4,096.00	0.5	450000	45	A	
27	**Al**	2	**397.500**	ug/l	397.50	1.6	450000	45	P	
31	**P**	2	**3990.000**	ug/l	3,990.00	0.5	450000	45	P	
39	**K**	2	**4063.000**	ug/l	4,063.00	0.4	450000	45	A	
44	**Ca**	2	**4056.000**	ug/l	4,056.00	0.7	450000	45	P	
47	**Ti**	2	**39.910**	ug/l	39.91	3.5	4500	45	P	
51	**V**	2	**39.480**	ug/l	39.48	1.5	4500	45	P	
52	**Cr**	2	**40.150**	ug/l	40.15	0.8	4500	45	P	
54	**Fe**	2	**4051.000**	ug/l	4,051.00	1.0	450000	74	P	
55	**Mn**	2	**40.170**	ug/l	40.17	1.2	15000	45	P	
59	**Co**	2	**40.390**	ug/l	40.39	0.4	4500	45	P	
60	**Ni**	2	**41.010**	ug/l	41.01	0.6	15000	45	P	
63	**Cu**	2	**40.460**	ug/l	40.46	1.5	15000	45	P	
66	**Zn**	2	**40.550**	ug/l	40.55	1.2	15000	45	P	
75	**As**	2	**39.330**	ug/l	39.33	2.1	4500	74	P	
78	**Se**	2	**39.880**	ug/l	39.88	7.7	4500	74	P	
88	**Sr**	3	**40.060**	ug/l	40.06	0.8	4500	74	P	
95	**Mo**	3	**40.330**	ug/l	40.33	1.4	4500	74	P	
107	**Ag**	3	**39.930**	ug/l	39.93	2.0	450	103	P	
111	**Cd**	3	**40.160**	ug/l	40.16	2.8	900	103	P	
118	**Sn**	3	**39.730**	ug/l	39.73	2.1	4500	103	P	
121	**Sb**	3	**39.790**	ug/l	39.79	1.3	4500	103	P	
135	**Ba**	3	**39.010**	ug/l	39.01	1.4	4500	103	P	
200	**Hg**	3	**2.002**	ug/l	2.00	4.9	45	209	P	
205	**Tl**	3	**40.540**	ug/l	40.54	1.2	4500	209	P	
208	**Pb**	3	**41.010**	ug/l	41.01	1.6	4500	209	P	
238	**U**	3	**40.340**	ug/l	40.34	1.5	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4777471	1.73	5119000	**93.3**	30	-	120	
45	Sc	1	340053	0.48	341400	**99.6**	30	-	120	
45	Sc	2	268331	0.68	273900	**98.0**	30	-	120	
74	Ge	1	283280	0.25	283600	**99.9**	30	-	120	
74	Ge	2	420898	1.49	422600	**99.6**	30	-	120	
74	Ge	3	1648153	0.69	1674000	**98.5**	30	-	120	
103	Rh	2	784031	1.20	814900	**96.2**	30	-	120	
103	Rh	3	1494422	1.43	1535000	**97.4**	30	-	120	
165	Ho	3	3195109	1.44	3236000	**98.7**	30	-	120	
175	Lu	3	3590444	0.76	3584000	**100.2**	30	-	120	
209	Bi	3	7378706	1.10	7619000	**96.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\015SMPL.D\015SMPL.D#
Date Acquired: May 27 2010 02:22 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.018**	ug/l	0.02	60.8	450	6	P	
23	**Na**	2	**7.682**	ug/l	7.68	24.4	450000	45	P	
24	**Mg**	2	**1.307**	ug/l	1.31	5.8	450000	45	P	
27	**Al**	2	**0.101**	ug/l	0.10	115.9	450000	45	P	
31	**P**	2	**-3.663**	ug/l	-3.66	115.2	450000	45	P	
39	**K**	2	**4.016**	ug/l	4.02	52.3	450000	45	P	
44	**Ca**	2	**2.388**	ug/l	2.39	145.4	450000	45	P	
47	**Ti**	2	**0.025**	ug/l	0.02	101.1	4500	45	P	
51	**V**	2	**-0.095**	ug/l	-0.09	39.6	4500	45	P	
52	**Cr**	2	**0.011**	ug/l	0.01	166.8	4500	45	P	
54	**Fe**	2	**1.833**	ug/l	1.83	14.3	450000	74	P	
55	**Mn**	2	**0.012**	ug/l	0.01	45.1	15000	45	P	
59	**Co**	2	**0.015**	ug/l	0.01	30.1	4500	45	P	
60	**Ni**	2	**0.029**	ug/l	0.03	32.3	15000	45	P	
63	**Cu**	2	**0.033**	ug/l	0.03	14.9	15000	45	P	
66	**Zn**	2	**-0.046**	ug/l	-0.05	122.9	15000	45	P	
75	**As**	2	**-0.031**	ug/l	-0.03	62.9	4500	74	P	
78	**Se**	2	**-0.231**	ug/l	-0.23	53.4	4500	74	P	
88	**Sr**	3	**0.016**	ug/l	0.02	79.4	4500	74	P	
95	**Mo**	3	**0.008**	ug/l	0.01	103.7	4500	74	P	
107	**Ag**	3	**0.007**	ug/l	0.01	69.0	450	103	P	
111	**Cd**	3	**0.005**	ug/l	0.00	68.7	900	103	P	
118	**Sn**	3	**0.041**	ug/l	0.04	28.7	4500	103	P	
121	**Sb**	3	**0.028**	ug/l	0.03	20.6	4500	103	P	
135	**Ba**	3	**0.006**	ug/l	0.01	100.0	4500	103	P	
200	**Hg**	3	**0.014**	ug/l	0.01	12.9	45	209	P	
205	**Tl**	3	**0.378**	ug/l	0.38	5.2	4500	209	P	
208	**Pb**	3	**0.009**	ug/l	0.01	72.2	4500	209	P	
238	**U**	3	**0.012**	ug/l	0.01	50.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4843146	0.99	5119000	**94.6**	30	-	120	
45	Sc	1	338511	0.33	341400	**99.2**	30	-	120	
45	Sc	2	268496	0.59	273900	**98.0**	30	-	120	
74	Ge	1	282135	0.30	283600	**99.5**	30	-	120	
74	Ge	2	423971	1.30	422600	**100.3**	30	-	120	
74	Ge	3	1632620	0.26	1674000	**97.5**	30	-	120	
103	Rh	2	805088	0.49	814900	**98.8**	30	-	120	
103	Rh	3	1525380	0.62	1535000	**99.4**	30	-	120	
165	Ho	3	3204788	1.45	3236000	**99.0**	30	-	120	
175	Lu	3	3591839	0.36	3584000	**100.2**	30	-	120	
209	Bi	3	7553531	0.23	7619000	**99.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\017SMPL.D\017SMPL.D#
Date Acquired: May 27 2010 02:35 pm Acq. Method: 0NEW_ALL.M
Sample Name: CRI (2 PPB) (RL) Vial Number: 1107
Misc Info: Hg(0.1 PPB),Al(20 PPB),Na(200 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.956**	ug/l	1.96	9.5	450	6	P	
23	**Na**	2	**216.000**	ug/l	216.00	1.7	450000	45	P	
24	**Mg**	2	**212.300**	ug/l	212.30	3.3	450000	45	P	
27	**Al**	2	**21.270**	ug/l	21.27	3.1	450000	45	P	
31	**P**	2	**198.800**	ug/l	198.80	5.0	450000	45	P	
39	**K**	2	**219.200**	ug/l	219.20	2.3	450000	45	P	
44	**Ca**	2	**198.500**	ug/l	198.50	5.7	450000	45	P	
47	**Ti**	2	**2.084**	ug/l	2.08	7.8	4500	45	P	
51	**V**	2	**1.912**	ug/l	1.91	2.4	4500	45	P	
52	**Cr**	2	**2.020**	ug/l	2.02	2.0	4500	45	P	
54	**Fe**	2	**202.500**	ug/l	202.50	3.2	450000	74	P	
55	**Mn**	2	**2.043**	ug/l	2.04	2.9	15000	45	P	
59	**Co**	2	**2.088**	ug/l	2.09	0.7	4500	45	P	
60	**Ni**	2	**2.259**	ug/l	2.26	6.8	15000	45	P	
63	**Cu**	2	**2.110**	ug/l	2.11	4.1	15000	45	P	
66	**Zn**	2	**2.036**	ug/l	2.04	17.3	15000	45	P	
75	**As**	2	**1.929**	ug/l	1.93	6.8	4500	74	P	
78	**Se**	2	**2.014**	ug/l	2.01	52.1	4500	74	P	
88	**Sr**	3	**2.038**	ug/l	2.04	2.1	4500	74	P	
95	**Mo**	3	**2.063**	ug/l	2.06	5.1	4500	74	P	
107	**Ag**	3	**2.059**	ug/l	2.06	2.2	450	103	P	
111	**Cd**	3	**2.036**	ug/l	2.04	3.4	900	103	P	
118	**Sn**	3	**1.940**	ug/l	1.94	4.5	4500	103	P	
121	**Sb**	3	**1.938**	ug/l	1.94	6.7	4500	103	P	
135	**Ba**	3	**1.846**	ug/l	1.85	3.2	4500	103	P	
200	**Hg**	3	**0.134**	ug/l	0.13	4.0	45	209	P	
205	**Tl**	3	**2.087**	ug/l	2.09	4.9	4500	209	P	
208	**Pb**	3	**2.039**	ug/l	2.04	1.9	4500	209	P	
238	**U**	3	**1.995**	ug/l	2.00	3.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4847158	1.00	5119000	**94.7**	30	-	120	
45	Sc	1	327879	0.63	341400	**96.0**	30	-	120	
45	Sc	2	270048	1.54	273900	**98.6**	30	-	120	
74	Ge	1	274940	1.21	283600	**96.9**	30	-	120	
74	Ge	2	425517	1.64	422600	**100.7**	30	-	120	
74	Ge	3	1638658	1.82	1674000	**97.9**	30	-	120	
103	Rh	2	809779	1.29	814900	**99.4**	30	-	120	
103	Rh	3	1543222	0.40	1535000	**100.5**	30	-	120	
165	Ho	3	3184232	0.67	3236000	**98.4**	30	-	120	
175	Lu	3	3551494	0.93	3584000	**99.1**	30	-	120	
209	Bi	3	7623753	0.86	7619000	**100.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\018SMPL.D\018SMPL.D#
Date Acquired: May 27 2010 02:41 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICSA Vial Number: 1101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.00	94.7	450	6	P	
23	**Na**	2	**245200.000**	ug/l	245,200.00	1.9	450000	45	A	
24	**Mg**	2	**96050.000**	ug/l	96,050.00	0.7	450000	45	A	
27	**Al**	2	**92580.000**	ug/l	92,580.00	1.7	450000	45	A	
31	**P**	2	**100600.000**	ug/l	100,600.00	1.5	450000	45	A	
39	**K**	2	**96080.000**	ug/l	96,080.00	1.0	450000	45	A	
44	**Ca**	2	**281700.000**	ug/l	281,700.00	0.3	450000	45	A	
47	**Ti**	2	**1978.000**	ug/l	1,978.00	0.6	4500	45	P	
51	**V**	2	**-0.037**	ug/l	-0.04	135.5	4500	45	P	
52	**Cr**	2	**1.079**	ug/l	1.08	9.4	4500	45	P	
54	**Fe**	2	**229100.000**	ug/l	229,100.00	1.5	450000	74	A	
55	**Mn**	2	**5.081**	ug/l	5.08	1.3	15000	45	P	
59	**Co**	2	**3.550**	ug/l	3.55	1.5	4500	45	P	
60	**Ni**	2	**2.519**	ug/l	2.52	7.9	15000	45	P	
63	**Cu**	2	**3.523**	ug/l	3.52	2.4	15000	45	P	
66	**Zn**	2	**3.269**	ug/l	3.27	8.4	15000	45	P	
75	**As**	2	**0.354**	ug/l	0.35	15.6	4500	74	P	
78	**Se**	2	**0.359**	ug/l	0.36	205.5	4500	74	P	
88	**Sr**	3	**17.480**	ug/l	17.48	2.4	4500	74	P	
95	**Mo**	3	**2090.000**	ug/l	2,090.00	1.0	4500	74	A	
107	**Ag**	3	**0.188**	ug/l	0.19	9.8	450	103	P	
111	**Cd**	3	**0.194**	ug/l	0.19	47.6	900	103	P	
118	**Sn**	3	**0.133**	ug/l	0.13	5.2	4500	103	P	
121	**Sb**	3	**0.705**	ug/l	0.71	2.0	4500	103	P	
135	**Ba**	3	**0.467**	ug/l	0.47	4.2	4500	103	P	
200	**Hg**	3	**0.019**	ug/l	0.02	28.3	45	209	P	
205	**Tl**	3	**0.111**	ug/l	0.11	8.8	4500	209	P	
208	**Pb**	3	**0.274**	ug/l	0.27	3.2	4500	209	P	
238	**U**	3	**0.003**	ug/l	0.00	68.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3611639	1.21	5119000	**70.6**	30	-	120	
45	Sc	1	305003	1.27	341400	**89.3**	30	-	120	
45	Sc	2	225786	1.04	273900	**82.4**	30	-	120	
74	Ge	1	243649	1.81	283600	**85.9**	30	-	120	
74	Ge	2	342709	1.63	422600	**81.1**	30	-	120	
74	Ge	3	1331549	1.49	1674000	**79.5**	30	-	120	
103	Rh	2	587650	1.67	814900	**72.1**	30	-	120	
103	Rh	3	1170783	0.95	1535000	**76.3**	30	-	120	
165	Ho	3	2771062	0.60	3236000	**85.6**	30	-	120	
175	Lu	3	3118927	0.46	3584000	**87.0**	30	-	120	
209	Bi	3	5897911	0.64	7619000	**77.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\019SMPL.D\019SMPL.D#
Date Acquired: May 27 2010 02:47 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICSAB Vial Number: 1102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.004**	ug/l	0.00	39.6	450	6	P	
23	**Na**	2	**252300.000**	ug/l	252,300.00	2.7	450000	45	A	
24	**Mg**	2	**98980.000**	ug/l	98,980.00	0.7	450000	45	A	
27	**Al**	2	**93950.000**	ug/l	93,950.00	1.0	450000	45	A	
31	**P**	2	**103100.000**	ug/l	103,100.00	1.0	450000	45	A	
39	**K**	2	**97510.000**	ug/l	97,510.00	1.0	450000	45	A	
44	**Ca**	2	**285400.000**	ug/l	285,400.00	2.2	450000	45	A	
47	**Ti**	2	**1980.000**	ug/l	1,980.00	0.7	4500	45	P	
51	**V**	2	**204.800**	ug/l	204.80	0.8	4500	45	P	
52	**Cr**	2	**199.000**	ug/l	199.00	1.1	4500	45	P	
54	**Fe**	2	**232600.000**	ug/l	232,600.00	1.9	450000	74	A	
55	**Mn**	2	**200.300**	ug/l	200.30	1.2	15000	45	P	
59	**Co**	2	**200.200**	ug/l	200.20	0.8	4500	45	P	
60	**Ni**	2	**196.300**	ug/l	196.30	1.2	15000	45	P	
63	**Cu**	2	**190.700**	ug/l	190.70	1.2	15000	45	P	
66	**Zn**	2	**99.360**	ug/l	99.36	1.9	15000	45	P	
75	**As**	2	**107.600**	ug/l	107.60	0.4	4500	74	P	
78	**Se**	2	**101.800**	ug/l	101.80	2.4	4500	74	P	
88	**Sr**	3	**17.220**	ug/l	17.22	0.7	4500	74	P	
95	**Mo**	3	**2080.000**	ug/l	2,080.00	1.8	4500	74	A	
107	**Ag**	3	**50.810**	ug/l	50.81	0.6	450	103	P	
111	**Cd**	3	**105.400**	ug/l	105.40	0.9	900	103	P	
118	**Sn**	3	**0.114**	ug/l	0.11	18.5	4500	103	P	
121	**Sb**	3	**0.775**	ug/l	0.78	3.3	4500	103	P	
135	**Ba**	3	**0.431**	ug/l	0.43	4.8	4500	103	P	
200	**Hg**	3	**0.017**	ug/l	0.02	27.7	45	209	P	
205	**Tl**	3	**0.078**	ug/l	0.08	9.0	4500	209	P	
208	**Pb**	3	**0.279**	ug/l	0.28	2.5	4500	209	P	
238	**U**	3	**0.000**	ug/l	0.00	136.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3614366	2.07	5119000	**70.6**	30	-	120	
45	Sc	1	290360	0.73	341400	**85.0**	30	-	120	
45	Sc	2	212811	1.33	273900	**77.7**	30	-	120	
74	Ge	1	231478	1.49	283600	**81.6**	30	-	120	
74	Ge	2	324757	1.58	422600	**76.8**	30	-	120	
74	Ge	3	1314066	0.95	1674000	**78.5**	30	-	120	
103	Rh	2	568103	0.93	814900	**69.7**	30	-	120	
103	Rh	3	1145083	0.24	1535000	**74.6**	30	-	120	
165	Ho	3	2756504	0.87	3236000	**85.2**	30	-	120	
175	Lu	3	3109269	1.99	3584000	**86.8**	30	-	120	
209	Bi	3	5852697	1.32	7619000	**76.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\023SMPL.D\023SMPL.D#
Date Acquired: May 27 2010 03:12 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**51.080**	ug/l	51.08	2.9	450	6	P	
23	**Na**	2	**5013.000**	ug/l	5,013.00	0.8	450000	45	A	
24	**Mg**	2	**5111.000**	ug/l	5,111.00	2.2	450000	45	A	
27	**Al**	2	**499.700**	ug/l	499.70	1.6	450000	45	P	
31	**P**	2	**4941.000**	ug/l	4,941.00	0.3	450000	45	P	
39	**K**	2	**5106.000**	ug/l	5,106.00	0.3	450000	45	A	
44	**Ca**	2	**4993.000**	ug/l	4,993.00	1.9	450000	45	P	
47	**Ti**	2	**50.110**	ug/l	50.11	2.1	4500	45	P	
51	**V**	2	**50.030**	ug/l	50.03	0.7	4500	45	P	
52	**Cr**	2	**50.410**	ug/l	50.41	0.9	4500	45	P	
54	**Fe**	2	**5021.000**	ug/l	5,021.00	0.7	450000	74	P	
55	**Mn**	2	**50.500**	ug/l	50.50	1.5	15000	45	P	
59	**Co**	2	**50.310**	ug/l	50.31	1.0	4500	45	P	
60	**Ni**	2	**51.360**	ug/l	51.36	2.3	15000	45	P	
63	**Cu**	2	**50.330**	ug/l	50.33	1.1	15000	45	P	
66	**Zn**	2	**50.490**	ug/l	50.49	2.4	15000	45	P	
75	**As**	2	**49.150**	ug/l	49.15	0.9	4500	74	P	
78	**Se**	2	**48.820**	ug/l	48.82	5.2	4500	74	P	
88	**Sr**	3	**51.350**	ug/l	51.35	1.3	4500	74	P	
95	**Mo**	3	**51.480**	ug/l	51.48	1.9	4500	74	P	
107	**Ag**	3	**50.170**	ug/l	50.17	1.9	450	103	P	
111	**Cd**	3	**50.400**	ug/l	50.40	4.9	900	103	P	
118	**Sn**	3	**50.190**	ug/l	50.19	4.3	4500	103	P	
121	**Sb**	3	**50.610**	ug/l	50.61	3.1	4500	103	P	
135	**Ba**	3	**50.660**	ug/l	50.66	1.9	4500	103	P	
200	**Hg**	3	**2.480**	ug/l	2.48	2.0	45	209	P	
205	**Tl**	3	**50.160**	ug/l	50.16	2.2	4500	209	P	
208	**Pb**	3	**51.170**	ug/l	51.17	1.6	4500	209	P	
238	**U**	3	**50.720**	ug/l	50.72	3.5	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4168630	0.36	5119000	**81.4**	30	-	120	
45	Sc	1	323138	1.47	341400	**94.7**	30	-	120	
45	Sc	2	247432	0.93	273900	**90.3**	30	-	120	
74	Ge	1	269525	1.71	283600	**95.0**	30	-	120	
74	Ge	2	392393	0.39	422600	**92.9**	30	-	120	
74	Ge	3	1517443	0.82	1674000	**90.6**	30	-	120	
103	Rh	2	735690	0.59	814900	**90.3**	30	-	120	
103	Rh	3	1404377	1.08	1535000	**91.5**	30	-	120	
165	Ho	3	3144437	0.57	3236000	**97.2**	30	-	120	
175	Lu	3	3513731	1.51	3584000	**98.0**	30	-	120	
209	Bi	3	7271915	0.19	7619000	**95.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed

0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\024SMPL.D\024SMPL.D#
Date Acquired: May 27 2010 03:18 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.019**	ug/l	0.02	75.4	450	6	P	
23	**Na**	2	**16.960**	ug/l	16.96	10.8	450000	45	P	
24	**Mg**	2	**2.085**	ug/l	2.09	5.6	450000	45	P	
27	**Al**	2	**0.092**	ug/l	0.09	219.0	450000	45	P	
31	**P**	2	**-2.667**	ug/l	-2.67	113.2	450000	45	P	
39	**K**	2	**11.510**	ug/l	11.51	20.2	450000	45	P	
44	**Ca**	2	**2.392**	ug/l	2.39	73.7	450000	45	P	
47	**Ti**	2	**0.197**	ug/l	0.20	148.0	4500	45	P	
51	**V**	2	**-0.068**	ug/l	-0.07	56.2	4500	45	P	
52	**Cr**	2	**-0.004**	ug/l	0.00	202.9	4500	45	P	
54	**Fe**	2	**2.445**	ug/l	2.45	34.0	450000	74	P	
55	**Mn**	2	**0.016**	ug/l	0.02	58.0	15000	45	P	
59	**Co**	2	**0.018**	ug/l	0.02	11.6	4500	45	P	
60	**Ni**	2	**0.021**	ug/l	0.02	51.8	15000	45	P	
63	**Cu**	2	**0.051**	ug/l	0.05	52.0	15000	45	P	
66	**Zn**	2	**-0.017**	ug/l	-0.02	372.6	15000	45	P	
75	**As**	2	**-0.019**	ug/l	-0.02	99.0	4500	74	P	
78	**Se**	2	**-0.114**	ug/l	-0.11	490.5	4500	74	P	
88	**Sr**	3	**0.009**	ug/l	0.01	57.0	4500	74	P	
95	**Mo**	3	**0.010**	ug/l	0.01	77.4	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	71.7	450	103	P	
111	**Cd**	3	**0.014**	ug/l	0.01	148.6	900	103	P	
118	**Sn**	3	**0.026**	ug/l	0.03	7.4	4500	103	P	
121	**Sb**	3	**0.024**	ug/l	0.02	36.0	4500	103	P	
135	**Ba**	3	**0.013**	ug/l	0.01	30.4	4500	103	P	
200	**Hg**	3	**0.007**	ug/l	0.01	22.9	45	209	P	
205	**Tl**	3	**0.357**	ug/l	0.36	7.3	4500	209	P	
208	**Pb**	3	**0.008**	ug/l	0.01	78.1	4500	209	P	
238	**U**	3	**0.007**	ug/l	0.01	63.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4234243	2.23	5119000	**82.7**	30	-	120	
45	Sc	1	323218	0.84	341400	**94.7**	30	-	120	
45	Sc	2	249235	0.95	273900	**91.0**	30	-	120	
74	Ge	1	272851	0.73	283600	**96.2**	30	-	120	
74	Ge	2	394172	1.62	422600	**93.3**	30	-	120	
74	Ge	3	1507027	0.83	1674000	**90.0**	30	-	120	
103	Rh	2	764914	1.08	814900	**93.9**	30	-	120	
103	Rh	3	1420567	0.08	1535000	**92.5**	30	-	120	
165	Ho	3	3118006	0.89	3236000	**96.4**	30	-	120	
175	Lu	3	3466127	0.23	3584000	**96.7**	30	-	120	
209	Bi	3	7406851	0.59	7619000	**97.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\025SMPL.D\025SMPL.D#
Date Acquired: May 27 2010 03:24 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64447/21-A Vial Number: 2101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.006**	ug/l	0.06	78.3	450	6	P	
23	**Na**	2	**13.070**	ug/l	130.70	6.8	450000	45	P	
24	**Mg**	2	**0.408**	ug/l	4.08	51.8	450000	45	P	
27	**Al**	2	**-0.191**	ug/l	-1.91	26.8	450000	45	P	
31	**P**	2	**-3.925**	ug/l	-39.25	77.4	450000	45	P	
39	**K**	2	**13.410**	ug/l	134.10	9.9	450000	45	P	
44	**Ca**	2	**0.573**	ug/l	5.73	266.0	450000	45	P	
47	**Ti**	2	**0.013**	ug/l	0.13	79.4	4500	45	P	
51	**V**	2	**-0.073**	ug/l	-0.73	30.5	4500	45	P	
52	**Cr**	2	**0.007**	ug/l	0.07	493.9	4500	45	P	
54	**Fe**	2	**0.258**	ug/l	2.58	341.8	450000	74	P	
55	**Mn**	2	**-0.004**	ug/l	-0.04	33.2	15000	45	P	
59	**Co**	2	**0.004**	ug/l	0.04	27.4	4500	45	P	
60	**Ni**	2	**-0.002**	ug/l	-0.02	1162.8	15000	45	P	
63	**Cu**	2	**0.019**	ug/l	0.19	77.5	15000	45	P	
66	**Zn**	2	**-0.023**	ug/l	-0.23	177.7	15000	45	P	
75	**As**	2	**-0.035**	ug/l	-0.35	88.5	4500	74	P	
78	**Se**	2	**-0.595**	ug/l	-5.95	47.0	4500	74	P	
88	**Sr**	3	**0.001**	ug/l	0.01	603.8	4500	74	P	
95	**Mo**	3	**-0.003**	ug/l	-0.03	214.8	4500	74	P	
107	**Ag**	3	**0.001**	ug/l	0.01	421.1	450	103	P	
111	**Cd**	3	**0.006**	ug/l	0.06	188.8	900	103	P	
118	**Sn**	3	**0.004**	ug/l	0.04	220.2	4500	103	P	
121	**Sb**	3	**0.001**	ug/l	0.01	306.4	4500	103	P	
135	**Ba**	3	**-0.003**	ug/l	-0.03	126.3	4500	103	P	
200	**Hg**	3	**0.010**	ug/l	0.10	27.5	45	209	P	
205	**Tl**	3	**0.125**	ug/l	1.25	4.1	4500	209	P	
208	**Pb**	3	**0.000**	ug/l	0.00	297.9	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.01	137.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4302567	1.52	5119000	**84.1**	30	-	120	
45	Sc	1	322698	1.90	341400	**94.5**	30	-	120	
45	Sc	2	250481	0.99	273900	**91.4**	30	-	120	
74	Ge	1	272217	0.95	283600	**96.0**	30	-	120	
74	Ge	2	400340	1.72	422600	**94.7**	30	-	120	
74	Ge	3	1513756	0.36	1674000	**90.4**	30	-	120	
103	Rh	2	767706	1.11	814900	**94.2**	30	-	120	
103	Rh	3	1435486	1.99	1535000	**93.5**	30	-	120	
165	Ho	3	3088484	0.72	3236000	**95.4**	30	-	120	
175	Lu	3	3481929	0.45	3584000	**97.2**	30	-	120	
209	Bi	3	7381481	0.55	7619000	**96.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\026SMPL.D\026SMPL.D#
Date Acquired: May 27 2010 03:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-E SD Vial Number: 2102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.381**	ug/l	19.07	8.0	450	6	P	
23	**Na**	2	**32.990**	ug/l	1,649.50	9.4	450000	45	P	
24	**Mg**	2	**13190.000**	ug/l	659,500.00	1.1	450000	45	A	
27	**Al**	2	**12050.000**	ug/l	602,500.00	1.5	450000	45	A	
31	**P**	2	**230.200**	ug/l	11,510.00	4.4	450000	45	P	
39	**K**	2	**547.500**	ug/l	27,375.00	2.8	450000	45	P	
44	**Ca**	2	**5885.000**	ug/l	294,250.00	1.2	450000	45	P	
47	**Ti**	2	**86.270**	ug/l	4,313.50	1.6	4500	45	P	
51	**V**	2	**35.270**	ug/l	1,763.50	1.8	4500	45	P	
52	**Cr**	2	**103.600**	ug/l	5,180.00	0.6	4500	45	P	
54	**Fe**	2	**19620.000**	ug/l	981,000.00	3.2	450000	74	A	
55	**Mn**	2	**349.400**	ug/l	17,470.00	0.9	15000	45	P	
59	**Co**	2	**12.590**	ug/l	629.50	0.5	4500	45	P	
60	**Ni**	2	**128.500**	ug/l	6,425.00	1.6	15000	45	P	
63	**Cu**	2	**22.400**	ug/l	1,120.00	1.2	15000	45	P	
66	**Zn**	2	**36.500**	ug/l	1,825.00	2.6	15000	45	P	
75	**As**	2	**4.689**	ug/l	234.45	5.8	4500	74	P	
78	**Se**	2	**0.116**	ug/l	5.79	306.5	4500	74	P	
88	**Sr**	3	**26.150**	ug/l	1,307.50	2.6	4500	74	P	
95	**Mo**	3	**0.551**	ug/l	27.56	4.8	4500	74	P	
107	**Ag**	3	**0.058**	ug/l	2.91	17.9	450	103	P	
111	**Cd**	3	**0.099**	ug/l	4.94	6.2	900	103	P	
118	**Sn**	3	**0.288**	ug/l	14.39	5.1	4500	103	P	
121	**Sb**	3	**0.345**	ug/l	17.26	6.1	4500	103	P	
135	**Ba**	3	**150.000**	ug/l	7,500.00	1.1	4500	103	P	
200	**Hg**	3	**0.061**	ug/l	3.06	4.8	45	209	P	
205	**Tl**	3	**0.137**	ug/l	6.85	6.4	4500	209	P	
208	**Pb**	3	**5.571**	ug/l	278.55	0.8	4500	209	P	
238	**U**	3	**0.144**	ug/l	7.19	7.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4830930	0.32	5119000	**94.4**	30	-	120	
45	Sc	1	337100	0.40	341400	**98.7**	30	-	120	
45	Sc	2	269776	0.47	273900	**98.5**	30	-	120	
74	Ge	1	273911	0.92	283600	**96.6**	30	-	120	
74	Ge	2	401110	1.49	422600	**94.9**	30	-	120	
74	Ge	3	1617163	1.90	1674000	**96.6**	30	-	120	
103	Rh	2	751741	1.76	814900	**92.2**	30	-	120	
103	Rh	3	1472745	1.04	1535000	**95.9**	30	-	120	
165	Ho	3	3153832	0.66	3236000	**97.5**	30	-	120	
175	Lu	3	3544017	1.70	3584000	**98.9**	30	-	120	
209	Bi	3	7218371	0.23	7619000	**94.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\027SMPL.D\027SMPL.D#
Date Acquired: May 27 2010 03:36 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-E Vial Number: 2103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.758**	ug/l	17.58	1.9	450	6	P	
23	**Na**	2	**118.900**	ug/l	1,189.00	0.3	450000	45	P	
24	**Mg**	2	**54270.000**	ug/l	542,700.00	0.7	450000	45	A	
27	**Al**	2	**49540.000**	ug/l	495,400.00	1.9	450000	45	A	
31	**P**	2	**973.600**	ug/l	9,736.00	0.2	450000	45	P	
39	**K**	2	**2130.000**	ug/l	21,300.00	1.6	450000	45	A	
44	**Ca**	2	**24750.000**	ug/l	247,500.00	0.9	450000	45	P	
47	**Ti**	2	**362.500**	ug/l	3,625.00	0.9	4500	45	P	
51	**V**	2	**150.300**	ug/l	1,503.00	0.8	4500	45	P	
52	**Cr**	2	**434.000**	ug/l	4,340.00	0.4	4500	45	A	
54	**Fe**	2	**85210.000**	ug/l	852,100.00	0.8	450000	74	A	
55	**Mn**	2	**1412.000**	ug/l	14,120.00	0.7	15000	45	A	
59	**Co**	2	**51.970**	ug/l	519.70	0.6	4500	45	P	
60	**Ni**	2	**526.200**	ug/l	5,262.00	0.8	15000	45	P	
63	**Cu**	2	**91.940**	ug/l	919.40	0.6	15000	45	P	
66	**Zn**	2	**148.000**	ug/l	1,480.00	1.2	15000	45	P	
75	**As**	2	**21.880**	ug/l	218.80	0.4	4500	74	P	
78	**Se**	2	**1.640**	ug/l	16.40	106.6	4500	74	P	
88	**Sr**	3	**117.900**	ug/l	1,179.00	0.5	4500	74	A	
95	**Mo**	3	**2.644**	ug/l	26.44	4.7	4500	74	P	
107	**Ag**	3	**0.290**	ug/l	2.90	5.8	450	103	P	
111	**Cd**	3	**0.367**	ug/l	3.67	2.1	900	103	P	
118	**Sn**	3	**1.412**	ug/l	14.12	5.0	4500	103	P	
121	**Sb**	3	**1.533**	ug/l	15.33	1.9	4500	103	P	
135	**Ba**	3	**692.500**	ug/l	6,925.00	2.2	4500	103	P	
200	**Hg**	3	**0.247**	ug/l	2.47	3.8	45	209	P	
205	**Tl**	3	**0.299**	ug/l	2.99	4.2	4500	209	P	
208	**Pb**	3	**25.120**	ug/l	251.20	1.4	4500	209	P	
238	**U**	3	**0.674**	ug/l	6.74	1.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4024254	0.07	5119000	**78.6**	30	-	120	
45	Sc	1	336928	1.51	341400	**98.7**	30	-	120	
45	Sc	2	276919	0.45	273900	**101.1**	30	-	120	
74	Ge	1	249385	1.39	283600	**87.9**	30	-	120	
74	Ge	2	384300	0.87	422600	**90.9**	30	-	120	
74	Ge	3	1505700	1.33	1674000	**89.9**	30	-	120	
103	Rh	2	711391	0.85	814900	**87.3**	30	-	120	
103	Rh	3	1355482	1.29	1535000	**88.3**	30	-	120	
165	Ho	3	3130435	0.29	3236000	**96.7**	30	-	120	
175	Lu	3	3466114	1.35	3584000	**96.7**	30	-	120	
209	Bi	3	6875665	0.62	7619000	**90.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed

0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\028SMPL.D\028SMPL.D#
Date Acquired: May 27 2010 03:42 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-F DU Vial Number: 2104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.737**	ug/l	17.37	3.5	450	6	P	
23	**Na**	2	**122.000**	ug/l	1,220.00	2.3	450000	45	P	
24	**Mg**	2	**54320.000**	ug/l	543,200.00	1.0	450000	45	A	
27	**Al**	2	**49290.000**	ug/l	492,900.00	0.7	450000	45	A	
31	**P**	2	**957.400**	ug/l	9,574.00	2.2	450000	45	P	
39	**K**	2	**2226.000**	ug/l	22,260.00	1.9	450000	45	A	
44	**Ca**	2	**24420.000**	ug/l	244,200.00	0.3	450000	45	P	
47	**Ti**	2	**359.400**	ug/l	3,594.00	0.6	4500	45	P	
51	**V**	2	**148.600**	ug/l	1,486.00	1.1	4500	45	P	
52	**Cr**	2	**419.900**	ug/l	4,199.00	1.2	4500	45	A	
54	**Fe**	2	**84270.000**	ug/l	842,700.00	1.0	450000	74	A	
55	**Mn**	2	**1377.000**	ug/l	13,770.00	0.8	15000	45	A	
59	**Co**	2	**51.670**	ug/l	516.70	0.1	4500	45	P	
60	**Ni**	2	**523.700**	ug/l	5,237.00	0.4	15000	45	P	
63	**Cu**	2	**91.340**	ug/l	913.40	1.8	15000	45	P	
66	**Zn**	2	**147.100**	ug/l	1,471.00	1.3	15000	45	P	
75	**As**	2	**21.780**	ug/l	217.80	1.4	4500	74	P	
78	**Se**	2	**0.934**	ug/l	9.34	54.4	4500	74	P	
88	**Sr**	3	**115.600**	ug/l	1,156.00	2.5	4500	74	A	
95	**Mo**	3	**2.620**	ug/l	26.20	4.0	4500	74	P	
107	**Ag**	3	**0.273**	ug/l	2.73	1.7	450	103	P	
111	**Cd**	3	**0.424**	ug/l	4.24	12.7	900	103	P	
118	**Sn**	3	**1.390**	ug/l	13.90	8.5	4500	103	P	
121	**Sb**	3	**1.589**	ug/l	15.89	2.3	4500	103	P	
135	**Ba**	3	**694.100**	ug/l	6,941.00	2.3	4500	103	P	
200	**Hg**	3	**0.239**	ug/l	2.39	3.3	45	209	P	
205	**Tl**	3	**0.290**	ug/l	2.90	1.6	4500	209	P	
208	**Pb**	3	**25.090**	ug/l	250.90	0.4	4500	209	P	
238	**U**	3	**0.671**	ug/l	6.71	0.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3934460	0.81	5119000	**76.9**	30	-	120	
45	Sc	1	301888	1.46	341400	**88.4**	30	-	120	
45	Sc	2	271359	0.62	273900	**99.1**	30	-	120	
74	Ge	1	224847	0.84	283600	**79.3**	30	-	120	
74	Ge	2	376453	1.08	422600	**89.1**	30	-	120	
74	Ge	3	1485643	1.36	1674000	**88.7**	30	-	120	
103	Rh	2	700040	0.93	814900	**85.9**	30	-	120	
103	Rh	3	1328657	1.55	1535000	**86.6**	30	-	120	
165	Ho	3	3116708	0.57	3236000	**96.3**	30	-	120	
175	Lu	3	3469416	0.45	3584000	**96.8**	30	-	120	
209	Bi	3	6806118	0.64	7619000	**89.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\029SMPL.D\029SMPL.D#
Date Acquired: May 27 2010 03:48 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-G MS Vial Number: 2105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.176**	ug/l	108.80	2.9	450	6	P	
23	**Na**	2	**406.000**	ug/l	20,300.00	0.4	450000	45	P	
24	**Mg**	2	**10770.000**	ug/l	538,500.00	1.2	450000	45	A	
27	**Al**	2	**9756.000**	ug/l	487,800.00	1.4	450000	45	A	
31	**P**	2	**550.800**	ug/l	27,540.00	2.7	450000	45	P	
39	**K**	2	**806.900**	ug/l	40,345.00	1.3	450000	45	P	
44	**Ca**	2	**5007.000**	ug/l	250,350.00	0.9	450000	45	P	
47	**Ti**	2	**156.000**	ug/l	7,800.00	1.3	4500	45	P	
51	**V**	2	**46.370**	ug/l	2,318.50	0.6	4500	45	P	
52	**Cr**	2	**90.090**	ug/l	4,504.50	0.5	4500	45	P	
54	**Fe**	2	**16010.000**	ug/l	800,500.00	2.4	450000	74	A	
55	**Mn**	2	**295.700**	ug/l	14,785.00	0.4	15000	45	P	
59	**Co**	2	**28.270**	ug/l	1,413.50	0.4	4500	45	P	
60	**Ni**	2	**120.200**	ug/l	6,010.00	1.3	15000	45	P	
63	**Cu**	2	**26.950**	ug/l	1,347.50	1.4	15000	45	P	
66	**Zn**	2	**47.450**	ug/l	2,372.50	2.1	15000	45	P	
75	**As**	2	**76.660**	ug/l	3,833.00	1.5	4500	74	P	
78	**Se**	2	**78.590**	ug/l	3,929.50	2.3	4500	74	P	
88	**Sr**	3	**19.940**	ug/l	997.00	1.4	4500	74	P	
95	**Mo**	3	**93.320**	ug/l	4,666.00	0.9	4500	74	P	
107	**Ag**	3	**11.320**	ug/l	566.00	1.3	450	103	P	
111	**Cd**	3	**1.924**	ug/l	96.20	4.1	900	103	P	
118	**Sn**	3	**92.850**	ug/l	4,642.50	1.1	4500	103	P	
121	**Sb**	3	**55.160**	ug/l	2,758.00	0.6	4500	103	P	
135	**Ba**	3	**190.500**	ug/l	9,525.00	2.0	4500	103	P	
200	**Hg**	3	**0.952**	ug/l	47.58	2.5	45	209	P	
205	**Tl**	3	**75.110**	ug/l	3,755.50	1.0	4500	209	A	
208	**Pb**	3	**23.690**	ug/l	1,184.50	0.7	4500	209	P	
238	**U**	3	**0.111**	ug/l	5.57	6.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4904306	0.39	5119000	**95.8**	30	-	120	
45	Sc	1	287280	0.19	341400	**84.1**	30	-	120	
45	Sc	2	276555	0.75	273900	**101.0**	30	-	120	
74	Ge	1	231158	0.57	283600	**81.5**	30	-	120	
74	Ge	2	414241	1.12	422600	**98.0**	30	-	120	
74	Ge	3	1659507	1.17	1674000	**99.1**	30	-	120	
103	Rh	2	780620	0.75	814900	**95.8**	30	-	120	
103	Rh	3	1500686	0.83	1535000	**97.8**	30	-	120	
165	Ho	3	3194632	0.26	3236000	**98.7**	30	-	120	
175	Lu	3	3575095	0.27	3584000	**99.8**	30	-	120	
209	Bi	3	7343423	0.72	7619000	**96.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\030SMPL.D\030SMPL.D#
Date Acquired: May 27 2010 03:54 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-H MSD Vial Number: 2106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.221**	ug/l	111.05	1.9	450	6	P	
23	**Na**	2	**426.300**	ug/l	21,315.00	1.4	450000	45	P	
24	**Mg**	2	**11360.000**	ug/l	568,000.00	0.7	450000	45	A	
27	**Al**	2	**10240.000**	ug/l	512,000.00	0.9	450000	45	A	
31	**P**	2	**574.800**	ug/l	28,740.00	2.4	450000	45	P	
39	**K**	2	**847.400**	ug/l	42,370.00	1.2	450000	45	P	
44	**Ca**	2	**5310.000**	ug/l	265,500.00	0.3	450000	45	P	
47	**Ti**	2	**166.900**	ug/l	8,345.00	1.7	4500	45	P	
51	**V**	2	**48.610**	ug/l	2,430.50	0.7	4500	45	P	
52	**Cr**	2	**94.020**	ug/l	4,701.00	0.1	4500	45	P	
54	**Fe**	2	**16560.000**	ug/l	828,000.00	0.8	450000	74	A	
55	**Mn**	2	**310.800**	ug/l	15,540.00	0.8	15000	45	P	
59	**Co**	2	**29.880**	ug/l	1,494.00	0.4	4500	45	P	
60	**Ni**	2	**128.600**	ug/l	6,430.00	0.6	15000	45	P	
63	**Cu**	2	**28.740**	ug/l	1,437.00	1.0	15000	45	P	
66	**Zn**	2	**49.660**	ug/l	2,483.00	2.5	15000	45	P	
75	**As**	2	**78.750**	ug/l	3,937.50	0.6	4500	74	P	
78	**Se**	2	**80.750**	ug/l	4,037.50	8.5	4500	74	P	
88	**Sr**	3	**20.660**	ug/l	1,033.00	2.3	4500	74	P	
95	**Mo**	3	**96.600**	ug/l	4,830.00	2.9	4500	74	P	
107	**Ag**	3	**11.770**	ug/l	588.50	1.7	450	103	P	
111	**Cd**	3	**1.997**	ug/l	99.85	11.6	900	103	P	
118	**Sn**	3	**96.150**	ug/l	4,807.50	2.4	4500	103	P	
121	**Sb**	3	**56.900**	ug/l	2,845.00	1.4	4500	103	P	
135	**Ba**	3	**195.700**	ug/l	9,785.00	1.2	4500	103	P	
200	**Hg**	3	**1.025**	ug/l	51.25	3.6	45	209	P	
205	**Tl**	3	**77.580**	ug/l	3,879.00	1.4	4500	209	A	
208	**Pb**	3	**24.520**	ug/l	1,226.00	1.4	4500	209	P	
238	**U**	3	**0.113**	ug/l	5.64	0.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5126116	1.16	5119000	**100.1**	30	-	120	
45	Sc	1	284043	1.55	341400	**83.2**	30	-	120	
45	Sc	2	275410	0.89	273900	**100.6**	30	-	120	
74	Ge	1	231648	1.71	283600	**81.7**	30	-	120	
74	Ge	2	420074	1.17	422600	**99.4**	30	-	120	
74	Ge	3	1674039	0.21	1674000	**100.0**	30	-	120	
103	Rh	2	777870	1.36	814900	**95.5**	30	-	120	
103	Rh	3	1515304	0.73	1535000	**98.7**	30	-	120	
165	Ho	3	3243115	1.13	3236000	**100.2**	30	-	120	
175	Lu	3	3592616	0.67	3584000	**100.2**	30	-	120	
209	Bi	3	7343785	0.11	7619000	**96.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\031SMPL.D\031SMPL.D#
Date Acquired: May 27 2010 04:00 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-E PDS Vial Number: 2107
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.235**	ug/l	111.75	1.1	450	6	P	
23	**Na**	2	**425.300**	ug/l	21,265.00	1.2	450000	45	P	
24	**Mg**	2	**11290.000**	ug/l	564,500.00	0.9	450000	45	A	
27	**Al**	2	**10260.000**	ug/l	513,000.00	1.5	450000	45	A	
31	**P**	2	**567.300**	ug/l	28,365.00	3.8	450000	45	P	
39	**K**	2	**849.400**	ug/l	42,470.00	1.7	450000	45	P	
44	**Ca**	2	**5310.000**	ug/l	265,500.00	1.4	450000	45	P	
47	**Ti**	2	**165.400**	ug/l	8,270.00	1.0	4500	45	P	
51	**V**	2	**49.480**	ug/l	2,474.00	0.3	4500	45	P	
52	**Cr**	2	**94.000**	ug/l	4,700.00	0.7	4500	45	P	
54	**Fe**	2	**16650.000**	ug/l	832,500.00	1.4	450000	74	A	
55	**Mn**	2	**313.000**	ug/l	15,650.00	0.7	15000	45	P	
59	**Co**	2	**29.900**	ug/l	1,495.00	0.7	4500	45	P	
60	**Ni**	2	**128.900**	ug/l	6,445.00	1.3	15000	45	P	
63	**Cu**	2	**28.670**	ug/l	1,433.50	1.4	15000	45	P	
66	**Zn**	2	**48.310**	ug/l	2,415.50	2.2	15000	45	P	
75	**As**	2	**81.640**	ug/l	4,082.00	0.6	4500	74	P	
78	**Se**	2	**78.250**	ug/l	3,912.50	5.0	4500	74	P	
88	**Sr**	3	**20.450**	ug/l	1,022.50	3.4	4500	74	P	
95	**Mo**	3	**97.150**	ug/l	4,857.50	2.8	4500	74	P	
107	**Ag**	3	**11.760**	ug/l	588.00	2.0	450	103	P	
111	**Cd**	3	**1.986**	ug/l	99.30	3.7	900	103	P	
118	**Sn**	3	**96.320**	ug/l	4,816.00	2.3	4500	103	P	
121	**Sb**	3	**57.450**	ug/l	2,872.50	1.5	4500	103	P	
135	**Ba**	3	**197.000**	ug/l	9,850.00	2.2	4500	103	P	
200	**Hg**	3	**1.024**	ug/l	51.20	1.7	45	209	P	
205	**Tl**	3	**77.600**	ug/l	3,880.00	2.7	4500	209	A	
208	**Pb**	3	**24.560**	ug/l	1,228.00	2.2	4500	209	P	
238	**U**	3	**0.110**	ug/l	5.48	3.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5198248	0.93	5119000	**101.5**	30	-	120	
45	Sc	1	281376	0.71	341400	**82.4**	30	-	120	
45	Sc	2	279278	0.57	273900	**102.0**	30	-	120	
74	Ge	1	232584	0.76	283600	**82.0**	30	-	120	
74	Ge	2	425146	1.36	422600	**100.6**	30	-	120	
74	Ge	3	1709033	0.99	1674000	**102.1**	30	-	120	
103	Rh	2	788351	0.35	814900	**96.7**	30	-	120	
103	Rh	3	1532162	0.69	1535000	**99.8**	30	-	120	
165	Ho	3	3267069	0.55	3236000	**101.0**	30	-	120	
175	Lu	3	3614360	1.13	3584000	**100.8**	30	-	120	
209	Bi	3	7442153	1.10	7619000	**97.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\032SMPL.D\032SMPL.D#
Date Acquired: May 27 2010 04:07 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64447/22-A Vial Number: 2108
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.033**	ug/l	101.65	1.9	450	6	P	
23	**Na**	2	**416.800**	ug/l	20,840.00	0.9	450000	45	P	
24	**Mg**	2	**420.500**	ug/l	21,025.00	1.0	450000	45	P	
27	**Al**	2	**83.190**	ug/l	4,159.50	1.4	450000	45	P	
31	**P**	2	**386.000**	ug/l	19,300.00	1.6	450000	45	P	
39	**K**	2	**421.300**	ug/l	21,065.00	1.1	450000	45	P	
44	**Ca**	2	**389.300**	ug/l	19,465.00	5.2	450000	45	P	
47	**Ti**	2	**98.160**	ug/l	4,908.00	1.3	4500	45	P	
51	**V**	2	**19.740**	ug/l	987.00	2.4	4500	45	P	
52	**Cr**	2	**7.960**	ug/l	398.00	3.2	4500	45	P	
54	**Fe**	2	**453.700**	ug/l	22,685.00	1.5	450000	74	P	
55	**Mn**	2	**20.200**	ug/l	1,010.00	1.8	15000	45	P	
59	**Co**	2	**20.310**	ug/l	1,015.50	0.3	4500	45	P	
60	**Ni**	2	**20.610**	ug/l	1,030.50	4.1	15000	45	P	
63	**Cu**	2	**10.400**	ug/l	520.00	0.7	15000	45	P	
66	**Zn**	2	**20.270**	ug/l	1,013.50	2.0	15000	45	P	
75	**As**	2	**78.870**	ug/l	3,943.50	1.1	4500	74	P	
78	**Se**	2	**78.000**	ug/l	3,900.00	5.3	4500	74	P	
88	**Sr**	3	**0.005**	ug/l	0.27	36.7	4500	74	P	
95	**Mo**	3	**101.800**	ug/l	5,090.00	1.1	4500	74	P	
107	**Ag**	3	**11.880**	ug/l	594.00	0.9	450	103	P	
111	**Cd**	3	**1.898**	ug/l	94.90	4.0	900	103	P	
118	**Sn**	3	**99.940**	ug/l	4,997.00	0.6	4500	103	P	
121	**Sb**	3	**56.670**	ug/l	2,833.50	1.1	4500	103	P	
135	**Ba**	3	**78.360**	ug/l	3,918.00	1.0	4500	103	P	
200	**Hg**	3	**0.971**	ug/l	48.54	1.3	45	209	P	
205	**Tl**	3	**78.190**	ug/l	3,909.50	1.0	4500	209	A	
208	**Pb**	3	**20.260**	ug/l	1,013.00	0.3	4500	209	P	
238	**U**	3	**-0.002**	ug/l	-0.08	7.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4562239	0.38	5119000	**89.1**	30	-	120	
45	Sc	1	266341	0.99	341400	**78.0**	30	-	120	
45	Sc	2	266800	0.84	273900	**97.4**	30	-	120	
74	Ge	1	222565	1.66	283600	**78.5**	30	-	120	
74	Ge	2	422290	0.05	422600	**99.9**	30	-	120	
74	Ge	3	1632382	0.86	1674000	**97.5**	30	-	120	
103	Rh	2	802949	1.09	814900	**98.5**	30	-	120	
103	Rh	3	1527966	1.53	1535000	**99.5**	30	-	120	
165	Ho	3	3291560	0.89	3236000	**101.7**	30	-	120	
175	Lu	3	3640705	0.58	3584000	**101.6**	30	-	120	
209	Bi	3	7620562	1.14	7619000	**100.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\033SMPL.D\033SMPL.D#
Date Acquired: May 27 2010 04:13 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64447/23-A Vial Number: 2109
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.983**	ug/l	99.15	5.8	450	6	P	
23	**Na**	2	**417.000**	ug/l	20,850.00	0.9	450000	45	P	
24	**Mg**	2	**417.500**	ug/l	20,875.00	0.4	450000	45	P	
27	**Al**	2	**78.390**	ug/l	3,919.50	1.4	450000	45	P	
31	**P**	2	**366.700**	ug/l	18,335.00	5.1	450000	45	P	
39	**K**	2	**417.500**	ug/l	20,875.00	2.0	450000	45	P	
44	**Ca**	2	**379.500**	ug/l	18,975.00	3.2	450000	45	P	
47	**Ti**	2	**97.010**	ug/l	4,850.50	1.6	4500	45	P	
51	**V**	2	**19.880**	ug/l	994.00	0.8	4500	45	P	
52	**Cr**	2	**8.023**	ug/l	401.15	1.3	4500	45	P	
54	**Fe**	2	**447.600**	ug/l	22,380.00	0.7	450000	74	P	
55	**Mn**	2	**20.240**	ug/l	1,012.00	1.4	15000	45	P	
59	**Co**	2	**20.500**	ug/l	1,025.00	1.4	4500	45	P	
60	**Ni**	2	**21.460**	ug/l	1,073.00	0.6	15000	45	P	
63	**Cu**	2	**10.650**	ug/l	532.50	1.4	15000	45	P	
66	**Zn**	2	**19.920**	ug/l	996.00	5.1	15000	45	P	
75	**As**	2	**79.280**	ug/l	3,964.00	0.9	4500	74	P	
78	**Se**	2	**81.530**	ug/l	4,076.50	1.0	4500	74	P	
88	**Sr**	3	**0.008**	ug/l	0.38	73.3	4500	74	P	
95	**Mo**	3	**100.500**	ug/l	5,025.00	1.6	4500	74	P	
107	**Ag**	3	**12.010**	ug/l	600.50	2.2	450	103	P	
111	**Cd**	3	**1.903**	ug/l	95.15	5.0	900	103	P	
118	**Sn**	3	**99.200**	ug/l	4,960.00	3.7	4500	103	P	
121	**Sb**	3	**56.450**	ug/l	2,822.50	3.1	4500	103	P	
135	**Ba**	3	**76.710**	ug/l	3,835.50	3.6	4500	103	P	
200	**Hg**	3	**0.944**	ug/l	47.20	1.2	45	209	P	
205	**Tl**	3	**77.150**	ug/l	3,857.50	3.9	4500	209	A	
208	**Pb**	3	**19.940**	ug/l	997.00	3.2	4500	209	P	
238	**U**	3	**-0.002**	ug/l	-0.08	7.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4561005	2.98	5119000	**89.1**	30	-	120	
45	Sc	1	269336	0.50	341400	**78.9**	30	-	120	
45	Sc	2	267037	0.97	273900	**97.5**	30	-	120	
74	Ge	1	225033	0.96	283600	**79.3**	30	-	120	
74	Ge	2	424297	0.80	422600	**100.4**	30	-	120	
74	Ge	3	1642762	1.09	1674000	**98.1**	30	-	120	
103	Rh	2	812728	1.54	814900	**99.7**	30	-	120	
103	Rh	3	1533358	0.61	1535000	**99.9**	30	-	120	
165	Ho	3	3278475	1.50	3236000	**101.3**	30	-	120	
175	Lu	3	3619586	1.59	3584000	**101.0**	30	-	120	
209	Bi	3	7699450	0.50	7619000	**101.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\034SMPL.D\034SMPL.D#
Date Acquired: May 27 2010 04:19 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64447/24-A Vial Number: 2110
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**96.400**	ug/l	1,928.00	1.3	450	6	P	
23	**Na**	2	**333.000**	ug/l	6,660.00	1.8	450000	45	P	
24	**Mg**	2	**2580.000**	ug/l	51,600.00	0.3	450000	45	A	
27	**Al**	2	**6251.000**	ug/l	125,020.00	1.0	450000	45	A	
31	**P**	2	**430.200**	ug/l	8,604.00	7.2	450000	45	P	
39	**K**	2	**2449.000**	ug/l	48,980.00	0.2	450000	45	A	
44	**Ca**	2	**5814.000**	ug/l	116,280.00	0.6	450000	45	P	
47	**Ti**	2	**280.300**	ug/l	5,606.00	1.0	4500	45	P	
51	**V**	2	**58.550**	ug/l	1,171.00	1.2	4500	45	P	
52	**Cr**	2	**74.090**	ug/l	1,481.80	1.9	4500	45	P	
54	**Fe**	2	**10870.000**	ug/l	217,400.00	0.8	450000	74	A	
55	**Mn**	2	**217.500**	ug/l	4,350.00	0.6	15000	45	P	
59	**Co**	2	**71.910**	ug/l	1,438.20	0.8	4500	45	P	
60	**Ni**	2	**107.200**	ug/l	2,144.00	1.1	15000	45	P	
63	**Cu**	2	**41.140**	ug/l	822.80	2.5	15000	45	P	
66	**Zn**	2	**215.100**	ug/l	4,302.00	1.6	15000	45	P	
75	**As**	2	**136.600**	ug/l	2,732.00	1.2	4500	74	P	
78	**Se**	2	**92.450**	ug/l	1,849.00	2.2	4500	74	P	
88	**Sr**	3	**72.980**	ug/l	1,459.60	1.4	4500	74	P	
95	**Mo**	3	**67.420**	ug/l	1,348.40	1.7	4500	74	P	
107	**Ag**	3	**21.430**	ug/l	428.60	0.9	450	103	P	
111	**Cd**	3	**40.270**	ug/l	805.40	1.0	900	103	P	
118	**Sn**	3	**99.500**	ug/l	1,990.00	0.6	4500	103	P	
121	**Sb**	3	**84.710**	ug/l	1,694.20	0.1	4500	103	P	
135	**Ba**	3	**330.000**	ug/l	6,600.00	0.7	4500	103	P	
200	**Hg**	3	**2.712**	ug/l	54.24	3.0	45	209	P	
205	**Tl**	3	**104.800**	ug/l	2,096.00	1.1	4500	209	A	
208	**Pb**	3	**131.100**	ug/l	2,622.00	1.6	4500	209	A	
238	**U**	3	**1.039**	ug/l	20.78	3.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4758340	1.60	5119000	**93.0**	30	-	120	
45	Sc	1	273069	1.95	341400	**80.0**	30	-	120	
45	Sc	2	277274	0.52	273900	**101.2**	30	-	120	
74	Ge	1	226619	1.58	283600	**79.9**	30	-	120	
74	Ge	2	426582	0.91	422600	**100.9**	30	-	120	
74	Ge	3	1701036	0.51	1674000	**101.6**	30	-	120	
103	Rh	2	801882	0.70	814900	**98.4**	30	-	120	
103	Rh	3	1557361	1.68	1535000	**101.5**	30	-	120	
165	Ho	3	3316396	0.06	3236000	**102.5**	30	-	120	
175	Lu	3	3684963	0.63	3584000	**102.8**	30	-	120	
209	Bi	3	7556078	0.28	7619000	**99.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\035SMPL.D\035SMPL.D#
Date Acquired: May 27 2010 04:25 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**50.000**	ug/l	50.00	2.9	450	6	P	
23	**Na**	2	**4940.000**	ug/l	4,940.00	1.3	450000	45	A	
24	**Mg**	2	**5093.000**	ug/l	5,093.00	1.1	450000	45	A	
27	**Al**	2	**503.700**	ug/l	503.70	1.3	450000	45	P	
31	**P**	2	**4997.000**	ug/l	4,997.00	1.5	450000	45	P	
39	**K**	2	**5106.000**	ug/l	5,106.00	1.9	450000	45	A	
44	**Ca**	2	**5055.000**	ug/l	5,055.00	1.8	450000	45	P	
47	**Ti**	2	**51.120**	ug/l	51.12	0.4	4500	45	P	
51	**V**	2	**50.100**	ug/l	50.10	1.5	4500	45	P	
52	**Cr**	2	**50.390**	ug/l	50.39	0.8	4500	45	P	
54	**Fe**	2	**5098.000**	ug/l	5,098.00	0.7	450000	74	P	
55	**Mn**	2	**50.730**	ug/l	50.73	0.8	15000	45	P	
59	**Co**	2	**50.750**	ug/l	50.75	1.0	4500	45	P	
60	**Ni**	2	**51.470**	ug/l	51.47	1.8	15000	45	P	
63	**Cu**	2	**51.060**	ug/l	51.06	3.1	15000	45	P	
66	**Zn**	2	**50.550**	ug/l	50.55	1.5	15000	45	P	
75	**As**	2	**51.040**	ug/l	51.04	1.6	4500	74	P	
78	**Se**	2	**47.710**	ug/l	47.71	3.9	4500	74	P	
88	**Sr**	3	**49.970**	ug/l	49.97	2.3	4500	74	P	
95	**Mo**	3	**50.350**	ug/l	50.35	4.4	4500	74	P	
107	**Ag**	3	**49.920**	ug/l	49.92	1.2	450	103	P	
111	**Cd**	3	**49.350**	ug/l	49.35	4.0	900	103	P	
118	**Sn**	3	**49.190**	ug/l	49.19	2.2	4500	103	P	
121	**Sb**	3	**49.760**	ug/l	49.76	2.1	4500	103	P	
135	**Ba**	3	**49.200**	ug/l	49.20	1.7	4500	103	P	
200	**Hg**	3	**2.529**	ug/l	2.53	2.9	45	209	P	
205	**Tl**	3	**51.300**	ug/l	51.30	2.7	4500	209	P	
208	**Pb**	3	**51.220**	ug/l	51.22	1.2	4500	209	P	
238	**U**	3	**49.910**	ug/l	49.91	1.8	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4705420	0.32	5119000	**91.9**	30	-	120	
45	Sc	1	270533	0.98	341400	**79.2**	30	-	120	
45	Sc	2	269996	1.49	273900	**98.6**	30	-	120	
74	Ge	1	227472	0.38	283600	**80.2**	30	-	120	
74	Ge	2	423686	1.31	422600	**100.3**	30	-	120	
74	Ge	3	1674997	1.45	1674000	**100.1**	30	-	120	
103	Rh	2	797506	1.58	814900	**97.9**	30	-	120	
103	Rh	3	1522382	0.51	1535000	**99.2**	30	-	120	
165	Ho	3	3230209	1.14	3236000	**99.8**	30	-	120	
175	Lu	3	3672269	1.21	3584000	**102.5**	30	-	120	
209	Bi	3	7496889	0.21	7619000	**98.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\036SMPL.D\036SMPL.D#
Date Acquired: May 27 2010 04:31 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.016**	ug/l	0.02	5.9	450	6	P	
23	**Na**	2	**3.610**	ug/l	3.61	20.5	450000	45	P	
24	**Mg**	2	**2.057**	ug/l	2.06	6.1	450000	45	P	
27	**Al**	2	**0.315**	ug/l	0.31	34.7	450000	45	P	
31	**P**	2	**-5.881**	ug/l	-5.88	17.5	450000	45	P	
39	**K**	2	**1.627**	ug/l	1.63	331.2	450000	45	P	
44	**Ca**	2	**2.859**	ug/l	2.86	43.6	450000	45	P	
47	**Ti**	2	**0.065**	ug/l	0.07	32.7	4500	45	P	
51	**V**	2	**-0.058**	ug/l	-0.06	31.4	4500	45	P	
52	**Cr**	2	**0.044**	ug/l	0.04	14.4	4500	45	P	
54	**Fe**	2	**2.922**	ug/l	2.92	6.8	450000	74	P	
55	**Mn**	2	**0.036**	ug/l	0.04	13.2	15000	45	P	
59	**Co**	2	**0.019**	ug/l	0.02	31.5	4500	45	P	
60	**Ni**	2	**0.021**	ug/l	0.02	122.9	15000	45	P	
63	**Cu**	2	**0.053**	ug/l	0.05	27.3	15000	45	P	
66	**Zn**	2	**0.055**	ug/l	0.06	70.8	15000	45	P	
75	**As**	2	**-0.026**	ug/l	-0.03	75.6	4500	74	P	
78	**Se**	2	**-0.236**	ug/l	-0.24	144.7	4500	74	P	
88	**Sr**	3	**0.014**	ug/l	0.01	45.2	4500	74	P	
95	**Mo**	3	**0.003**	ug/l	0.00	206.8	4500	74	P	
107	**Ag**	3	**0.014**	ug/l	0.01	35.8	450	103	P	
111	**Cd**	3	**0.007**	ug/l	0.01	66.5	900	103	P	
118	**Sn**	3	**0.079**	ug/l	0.08	33.3	4500	103	P	
121	**Sb**	3	**0.041**	ug/l	0.04	25.4	4500	103	P	
135	**Ba**	3	**0.038**	ug/l	0.04	8.3	4500	103	P	
200	**Hg**	3	**0.018**	ug/l	0.02	15.8	45	209	P	
205	**Tl**	3	**0.728**	ug/l	0.73	7.0	4500	209	P	
208	**Pb**	3	**0.019**	ug/l	0.02	14.0	4500	209	P	
238	**U**	3	**0.010**	ug/l	0.01	5.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4709075	2.38	5119000	**92.0**	30	-	120	
45	Sc	1	272242	0.94	341400	**79.7**	30	-	120	
45	Sc	2	271963	1.19	273900	**99.3**	30	-	120	
74	Ge	1	228380	0.42	283600	**80.5**	30	-	120	
74	Ge	2	430208	0.65	422600	**101.8**	30	-	120	
74	Ge	3	1673594	1.62	1674000	**100.0**	30	-	120	
103	Rh	2	831128	0.35	814900	**102.0**	30	-	120	
103	Rh	3	1563379	0.62	1535000	**101.8**	30	-	120	
165	Ho	3	3275318	2.32	3236000	**101.2**	30	-	120	
175	Lu	3	3648210	0.16	3584000	**101.8**	30	-	120	
209	Bi	3	7728485	0.71	7619000	**101.4**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\037SMPL.D\037SMPL.D#
Date Acquired: May 27 2010 04:37 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-2-B Vial Number: 2201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.208**	ug/l	12.08	1.8	450	6	P	
23	**Na**	2	**63.680**	ug/l	636.80	3.8	450000	45	P	
24	**Mg**	2	**63640.000**	ug/l	636,400.00	0.7	450000	45	A	
27	**Al**	2	**14450.000**	ug/l	144,500.00	0.9	450000	45	A	
31	**P**	2	**859.200**	ug/l	8,592.00	6.0	450000	45	P	
39	**K**	2	**2521.000**	ug/l	25,210.00	1.4	450000	45	A	
44	**Ca**	2	**7036.000**	ug/l	70,360.00	0.4	450000	45	P	
47	**Ti**	2	**239.800**	ug/l	2,398.00	0.4	4500	45	P	
51	**V**	2	**62.600**	ug/l	626.00	0.8	4500	45	P	
52	**Cr**	2	**365.400**	ug/l	3,654.00	0.7	4500	45	A	
54	**Fe**	2	**62880.000**	ug/l	628,800.00	3.4	450000	74	A	
55	**Mn**	2	**894.100**	ug/l	8,941.00	0.5	15000	45	A	
59	**Co**	2	**50.630**	ug/l	506.30	0.9	4500	45	P	
60	**Ni**	2	**702.500**	ug/l	7,025.00	0.9	15000	45	P	
63	**Cu**	2	**53.150**	ug/l	531.50	1.8	15000	45	P	
66	**Zn**	2	**113.700**	ug/l	1,137.00	1.8	15000	45	P	
75	**As**	2	**15.720**	ug/l	157.20	3.1	4500	74	P	
78	**Se**	2	**0.285**	ug/l	2.85	91.9	4500	74	P	
88	**Sr**	3	**42.210**	ug/l	422.10	1.5	4500	74	P	
95	**Mo**	3	**0.602**	ug/l	6.02	8.2	4500	74	P	
107	**Ag**	3	**0.146**	ug/l	1.46	9.0	450	103	P	
111	**Cd**	3	**0.357**	ug/l	3.57	7.4	900	103	P	
118	**Sn**	3	**0.816**	ug/l	8.16	10.2	4500	103	P	
121	**Sb**	3	**0.787**	ug/l	7.87	4.6	4500	103	P	
135	**Ba**	3	**252.300**	ug/l	2,523.00	2.3	4500	103	P	
200	**Hg**	3	**518.700**	ug/l	5,187.00	2.1	45	209	A	Fail
205	**Tl**	3	**0.544**	ug/l	5.44	3.8	4500	209	P	
208	**Pb**	3	**16.500**	ug/l	165.00	1.7	4500	209	P	
238	**U**	3	**0.973**	ug/l	9.73	3.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4027359	1.47	5119000	**78.7**	30	-	120	
45	Sc	1	270061	1.57	341400	**79.1**	30	-	120	
45	Sc	2	276511	1.19	273900	**101.0**	30	-	120	
74	Ge	1	208803	2.52	283600	**73.6**	30	-	120	
74	Ge	2	397012	2.16	422600	**93.9**	30	-	120	
74	Ge	3	1522533	0.88	1674000	**91.0**	30	-	120	
103	Rh	2	740177	1.29	814900	**90.8**	30	-	120	
103	Rh	3	1385041	1.03	1535000	**90.2**	30	-	120	
165	Ho	3	3161199	0.62	3236000	**97.7**	30	-	120	
175	Lu	3	3531056	0.82	3584000	**98.5**	30	-	120	
209	Bi	3	6927820	0.59	7619000	**90.9**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\038SMPL.D\038SMPL.D#
Date Acquired: May 27 2010 04:44 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-3-B Vial Number: 2202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.304**	ug/l	13.04	5.7	450	6	P	
23	**Na**	2	**195.300**	ug/l	1,953.00	1.0	450000	45	P	
24	**Mg**	2	**94980.000**	ug/l	949,800.00	1.8	450000	45	A	
27	**Al**	2	**42820.000**	ug/l	428,200.00	1.3	450000	45	A	
31	**P**	2	**836.800**	ug/l	8,368.00	2.0	450000	45	P	
39	**K**	2	**1847.000**	ug/l	18,470.00	0.5	450000	45	P	
44	**Ca**	2	**23890.000**	ug/l	238,900.00	1.3	450000	45	P	
47	**Ti**	2	**352.300**	ug/l	3,523.00	1.3	4500	45	P	
51	**V**	2	**112.500**	ug/l	1,125.00	0.7	4500	45	P	
52	**Cr**	2	**794.400**	ug/l	7,944.00	1.9	4500	45	A	
54	**Fe**	2	**77180.000**	ug/l	771,800.00	1.2	450000	74	A	
55	**Mn**	2	**1281.000**	ug/l	12,810.00	1.3	15000	45	A	
59	**Co**	2	**68.190**	ug/l	681.90	0.6	4500	45	P	
60	**Ni**	2	**1029.000**	ug/l	10,290.00	1.6	15000	45	P	
63	**Cu**	2	**72.290**	ug/l	722.90	1.0	15000	45	P	
66	**Zn**	2	**133.100**	ug/l	1,331.00	0.6	15000	45	P	
75	**As**	2	**12.890**	ug/l	128.90	2.0	4500	74	P	
78	**Se**	2	**1.025**	ug/l	10.25	90.6	4500	74	P	
88	**Sr**	3	**290.400**	ug/l	2,904.00	2.5	4500	74	A	
95	**Mo**	3	**1.350**	ug/l	13.50	4.6	4500	74	P	
107	**Ag**	3	**0.122**	ug/l	1.22	5.9	450	103	P	
111	**Cd**	3	**0.347**	ug/l	3.47	7.6	900	103	P	
118	**Sn**	3	**1.431**	ug/l	14.31	6.9	4500	103	P	
121	**Sb**	3	**0.761**	ug/l	7.61	8.2	4500	103	P	
135	**Ba**	3	**417.500**	ug/l	4,175.00	1.7	4500	103	P	
200	**Hg**	3	**28.020**	ug/l	280.20	2.5	45	209	P	
205	**Tl**	3	**0.379**	ug/l	3.79	6.0	4500	209	P	
208	**Pb**	3	**16.980**	ug/l	169.80	3.3	4500	209	P	
238	**U**	3	**0.392**	ug/l	3.92	5.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3871321	0.70	5119000	**75.6**	30	-	120	
45	Sc	1	270973	1.29	341400	**79.4**	30	-	120	
45	Sc	2	268104	1.23	273900	**97.9**	30	-	120	
74	Ge	1	202097	0.76	283600	**71.3**	30	-	120	
74	Ge	2	377409	1.14	422600	**89.3**	30	-	120	
74	Ge	3	1456683	1.59	1674000	**87.0**	30	-	120	
103	Rh	2	692490	0.80	814900	**85.0**	30	-	120	
103	Rh	3	1293345	1.30	1535000	**84.3**	30	-	120	
165	Ho	3	3073289	0.83	3236000	**95.0**	30	-	120	
175	Lu	3	3417134	0.66	3584000	**95.3**	30	-	120	
209	Bi	3	6674272	1.73	7619000	**87.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\039SMPL.D\039SMPL.D#
Date Acquired: May 27 2010 04:51 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-4-B Vial Number: 2203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.243**	ug/l	12.43	2.0	450	6	P	
23	**Na**	2	**135.400**	ug/l	1,354.00	2.1	450000	45	P	
24	**Mg**	2	**95230.000**	ug/l	952,300.00	1.6	450000	45	A	
27	**Al**	2	**19710.000**	ug/l	197,100.00	0.9	450000	45	A	
31	**P**	2	**518.300**	ug/l	5,183.00	1.3	450000	45	P	
39	**K**	2	**1512.000**	ug/l	15,120.00	0.8	450000	45	P	
44	**Ca**	2	**12710.000**	ug/l	127,100.00	1.3	450000	45	P	
47	**Ti**	2	**1059.000**	ug/l	10,590.00	0.3	4500	45	P	
51	**V**	2	**133.800**	ug/l	1,338.00	1.1	4500	45	P	
52	**Cr**	2	**542.000**	ug/l	5,420.00	3.0	4500	45	A	
54	**Fe**	2	**104100.000**	ug/l	1,041,000.00	1.4	450000	74	A	
55	**Mn**	2	**3903.000**	ug/l	39,030.00	2.4	15000	45	A	
59	**Co**	2	**92.280**	ug/l	922.80	0.6	4500	45	P	
60	**Ni**	2	**1140.000**	ug/l	11,400.00	1.1	15000	45	A	
63	**Cu**	2	**153.600**	ug/l	1,536.00	0.5	15000	45	P	
66	**Zn**	2	**165.300**	ug/l	1,653.00	1.5	15000	45	P	
75	**As**	2	**13.170**	ug/l	131.70	2.3	4500	74	P	
78	**Se**	2	**1.698**	ug/l	16.98	60.2	4500	74	P	
88	**Sr**	3	**130.200**	ug/l	1,302.00	1.2	4500	74	A	
95	**Mo**	3	**3.150**	ug/l	31.50	7.3	4500	74	P	
107	**Ag**	3	**0.070**	ug/l	0.70	7.0	450	103	P	
111	**Cd**	3	**0.434**	ug/l	4.34	14.2	900	103	P	
118	**Sn**	3	**1.593**	ug/l	15.93	3.1	4500	103	P	
121	**Sb**	3	**0.882**	ug/l	8.82	3.1	4500	103	P	
135	**Ba**	3	**515.500**	ug/l	5,155.00	0.7	4500	103	P	
200	**Hg**	3	**16.920**	ug/l	169.20	0.9	45	209	P	
205	**Tl**	3	**0.431**	ug/l	4.31	3.1	4500	209	P	
208	**Pb**	3	**15.900**	ug/l	159.00	1.1	4500	209	P	
238	**U**	3	**0.271**	ug/l	2.71	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3786083	0.50	5119000	**74.0**	30	-	120	
45	Sc	1	283619	0.61	341400	**83.1**	30	-	120	
45	Sc	2	278639	1.36	273900	**101.7**	30	-	120	
74	Ge	1	201072	1.73	283600	**70.9**	30	-	120	
74	Ge	2	376394	1.42	422600	**89.1**	30	-	120	
74	Ge	3	1465612	0.83	1674000	**87.6**	30	-	120	
103	Rh	2	694682	1.32	814900	**85.2**	30	-	120	
103	Rh	3	1326748	0.46	1535000	**86.4**	30	-	120	
165	Ho	3	3103787	1.90	3236000	**95.9**	30	-	120	
175	Lu	3	3464470	0.46	3584000	**96.7**	30	-	120	
209	Bi	3	6769087	1.15	7619000	**88.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\040SMPL.D\040SMPL.D#
Date Acquired: May 27 2010 04:58 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-5-B Vial Number: 2204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.450**	ug/l	14.50	3.4	450	6	P	
23	**Na**	2	**277.100**	ug/l	2,771.00	2.6	450000	45	P	
24	**Mg**	2	**99820.000**	ug/l	998,200.00	0.5	450000	45	A	
27	**Al**	2	**57300.000**	ug/l	573,000.00	0.8	450000	45	A	
31	**P**	2	**1058.000**	ug/l	10,580.00	0.9	450000	45	P	
39	**K**	2	**2216.000**	ug/l	22,160.00	1.2	450000	45	A	
44	**Ca**	2	**14460.000**	ug/l	144,600.00	0.5	450000	45	P	
47	**Ti**	2	**3170.000**	ug/l	31,700.00	0.1	4500	45	P	
51	**V**	2	**146.200**	ug/l	1,462.00	0.6	4500	45	P	
52	**Cr**	2	**618.200**	ug/l	6,182.00	1.7	4500	45	A	
54	**Fe**	2	**91270.000**	ug/l	912,700.00	2.0	450000	74	A	
55	**Mn**	2	**1333.000**	ug/l	13,330.00	0.6	15000	45	A	
59	**Co**	2	**76.130**	ug/l	761.30	0.4	4500	45	P	
60	**Ni**	2	**983.500**	ug/l	9,835.00	0.5	15000	45	P	
63	**Cu**	2	**89.710**	ug/l	897.10	0.6	15000	45	P	
66	**Zn**	2	**160.300**	ug/l	1,603.00	1.2	15000	45	P	
75	**As**	2	**20.700**	ug/l	207.00	1.0	4500	74	P	
78	**Se**	2	**1.082**	ug/l	10.82	11.6	4500	74	P	
88	**Sr**	3	**135.900**	ug/l	1,359.00	0.2	4500	74	A	
95	**Mo**	3	**1.592**	ug/l	15.92	0.8	4500	74	P	
107	**Ag**	3	**0.206**	ug/l	2.06	8.9	450	103	P	
111	**Cd**	3	**0.438**	ug/l	4.38	29.3	900	103	P	
118	**Sn**	3	**1.451**	ug/l	14.51	4.1	4500	103	P	
121	**Sb**	3	**1.191**	ug/l	11.91	5.6	4500	103	P	
135	**Ba**	3	**401.100**	ug/l	4,011.00	1.4	4500	103	P	
200	**Hg**	3	**1.320**	ug/l	13.20	2.4	45	209	P	
205	**Tl**	3	**0.314**	ug/l	3.14	9.0	4500	209	P	
208	**Pb**	3	**21.340**	ug/l	213.40	0.8	4500	209	P	
238	**U**	3	**0.612**	ug/l	6.12	2.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3811934	2.45	5119000	**74.5**	30	-	120	
45	Sc	1	268731	0.62	341400	**78.7**	30	-	120	
45	Sc	2	271162	1.16	273900	**99.0**	30	-	120	
74	Ge	1	196415	0.43	283600	**69.3**	30	-	120	
74	Ge	2	381321	1.26	422600	**90.2**	30	-	120	
74	Ge	3	1489937	1.36	1674000	**89.0**	30	-	120	
103	Rh	2	696320	1.38	814900	**85.4**	30	-	120	
103	Rh	3	1327474	1.21	1535000	**86.5**	30	-	120	
165	Ho	3	3095567	0.77	3236000	**95.7**	30	-	120	
175	Lu	3	3484716	0.30	3584000	**97.2**	30	-	120	
209	Bi	3	6747242	0.37	7619000	**88.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\041SMPL.D\041SMPL.D#
Date Acquired: May 27 2010 05:05 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-6-B Vial Number: 2205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.278**	ug/l	12.78	3.9	450	6	P	
23	**Na**	2	**110.400**	ug/l	1,104.00	5.0	450000	45	P	
24	**Mg**	2	**48160.000**	ug/l	481,600.00	1.6	450000	45	A	
27	**Al**	2	**36800.000**	ug/l	368,000.00	1.7	450000	45	A	
31	**P**	2	**830.600**	ug/l	8,306.00	2.1	450000	45	P	
39	**K**	2	**2512.000**	ug/l	25,120.00	0.3	450000	45	A	
44	**Ca**	2	**6816.000**	ug/l	68,160.00	0.9	450000	45	P	
47	**Ti**	2	**1433.000**	ug/l	14,330.00	0.8	4500	45	P	
51	**V**	2	**102.300**	ug/l	1,023.00	1.3	4500	45	P	
52	**Cr**	2	**293.600**	ug/l	2,936.00	1.2	4500	45	P	
54	**Fe**	2	**68110.000**	ug/l	681,100.00	1.1	450000	74	A	
55	**Mn**	2	**1229.000**	ug/l	12,290.00	1.8	15000	45	A	
59	**Co**	2	**50.580**	ug/l	505.80	1.7	4500	45	P	
60	**Ni**	2	**551.400**	ug/l	5,514.00	1.4	15000	45	P	
63	**Cu**	2	**65.970**	ug/l	659.70	1.0	15000	45	P	
66	**Zn**	2	**205.400**	ug/l	2,054.00	0.8	15000	45	P	
75	**As**	2	**12.790**	ug/l	127.90	1.5	4500	74	P	
78	**Se**	2	**0.643**	ug/l	6.43	96.2	4500	74	P	
88	**Sr**	3	**67.900**	ug/l	679.00	1.5	4500	74	P	
95	**Mo**	3	**0.976**	ug/l	9.76	7.1	4500	74	P	
107	**Ag**	3	**0.108**	ug/l	1.08	17.5	450	103	P	
111	**Cd**	3	**0.501**	ug/l	5.01	8.0	900	103	P	
118	**Sn**	3	**1.067**	ug/l	10.67	1.5	4500	103	P	
121	**Sb**	3	**0.816**	ug/l	8.16	3.5	4500	103	P	
135	**Ba**	3	**403.700**	ug/l	4,037.00	1.5	4500	103	P	
200	**Hg**	3	**3.047**	ug/l	30.47	1.7	45	209	P	
205	**Tl**	3	**0.270**	ug/l	2.70	1.0	4500	209	P	
208	**Pb**	3	**20.800**	ug/l	208.00	0.7	4500	209	P	
238	**U**	3	**0.930**	ug/l	9.30	2.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4138952	1.35	5119000	**80.9**	30	-	120	
45	Sc	1	257945	1.29	341400	**75.6**	30	-	120	
45	Sc	2	283962	0.85	273900	**103.7**	30	-	120	
74	Ge	1	196672	2.42	283600	**69.3**	30	-	120	
74	Ge	2	410314	0.23	422600	**97.1**	30	-	120	
74	Ge	3	1625988	0.90	1674000	**97.1**	30	-	120	
103	Rh	2	756092	1.32	814900	**92.8**	30	-	120	
103	Rh	3	1482378	1.05	1535000	**96.6**	30	-	120	
165	Ho	3	3305618	0.50	3236000	**102.2**	30	-	120	
175	Lu	3	3631309	0.74	3584000	**101.3**	30	-	120	
209	Bi	3	7163596	0.26	7619000	**94.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed

0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\042SMPL.D\042SMPL.D#
Date Acquired: May 27 2010 05:12 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-7-B Vial Number: 2206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.315**	ug/l	13.15	4.3	450	6	P	
23	**Na**	2	**131.800**	ug/l	1,318.00	0.8	450000	45	P	
24	**Mg**	2	**72930.000**	ug/l	729,300.00	0.6	450000	45	A	
27	**Al**	2	**28220.000**	ug/l	282,200.00	1.4	450000	45	A	
31	**P**	2	**2112.000**	ug/l	21,120.00	2.1	450000	45	P	
39	**K**	2	**3637.000**	ug/l	36,370.00	1.9	450000	45	A	
44	**Ca**	2	**11080.000**	ug/l	110,800.00	1.0	450000	45	P	
47	**Ti**	2	**1031.000**	ug/l	10,310.00	0.7	4500	45	P	
51	**V**	2	**78.850**	ug/l	788.50	0.7	4500	45	P	
52	**Cr**	2	**335.700**	ug/l	3,357.00	0.3	4500	45	P	
54	**Fe**	2	**73190.000**	ug/l	731,900.00	1.5	450000	74	A	
55	**Mn**	2	**1241.000**	ug/l	12,410.00	0.7	15000	45	A	
59	**Co**	2	**59.440**	ug/l	594.40	0.2	4500	45	P	
60	**Ni**	2	**795.400**	ug/l	7,954.00	0.6	15000	45	P	
63	**Cu**	2	**82.940**	ug/l	829.40	0.6	15000	45	P	
66	**Zn**	2	**150.900**	ug/l	1,509.00	0.6	15000	45	P	
75	**As**	2	**12.600**	ug/l	126.00	1.4	4500	74	P	
78	**Se**	2	**1.001**	ug/l	10.01	138.1	4500	74	P	
88	**Sr**	3	**95.130**	ug/l	951.30	1.9	4500	74	A	
95	**Mo**	3	**1.332**	ug/l	13.32	3.5	4500	74	P	
107	**Ag**	3	**0.204**	ug/l	2.04	13.3	450	103	P	
111	**Cd**	3	**0.555**	ug/l	5.55	5.4	900	103	P	
118	**Sn**	3	**1.019**	ug/l	10.19	2.3	4500	103	P	
121	**Sb**	3	**0.733**	ug/l	7.33	7.9	4500	103	P	
135	**Ba**	3	**643.400**	ug/l	6,434.00	2.0	4500	103	P	
200	**Hg**	3	**92.230**	ug/l	922.30	0.3	45	209	P	Fail
205	**Tl**	3	**0.320**	ug/l	3.20	2.2	4500	209	P	
208	**Pb**	3	**22.570**	ug/l	225.70	0.9	4500	209	P	
238	**U**	3	**0.909**	ug/l	9.09	2.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4040325	0.50	5119000	**78.9**	30	-	120	
45	Sc	1	253682	1.49	341400	**74.3**	30	-	120	
45	Sc	2	273470	0.36	273900	**99.8**	30	-	120	
74	Ge	1	196400	1.57	283600	**69.3**	30	-	120	
74	Ge	2	398974	1.47	422600	**94.4**	30	-	120	
74	Ge	3	1539041	0.64	1674000	**91.9**	30	-	120	
103	Rh	2	727073	0.73	814900	**89.2**	30	-	120	
103	Rh	3	1374976	0.24	1535000	**89.6**	30	-	120	
165	Ho	3	3145857	0.41	3236000	**97.2**	30	-	120	
175	Lu	3	3501357	0.40	3584000	**97.7**	30	-	120	
209	Bi	3	6919766	0.66	7619000	**90.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\043SMPL.D\043SMPL.D#
Date Acquired: May 27 2010 05:19 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-8-B Vial Number: 2207
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.648**	ug/l	16.48	1.9	450	6	P	
23	**Na**	2	**142.400**	ug/l	1,424.00	1.7	450000	45	P	
24	**Mg**	2	**55400.000**	ug/l	554,000.00	1.2	450000	45	A	
27	**Al**	2	**52470.000**	ug/l	524,700.00	1.4	450000	45	A	
31	**P**	2	**1078.000**	ug/l	10,780.00	2.5	450000	45	P	
39	**K**	2	**2535.000**	ug/l	25,350.00	1.5	450000	45	A	
44	**Ca**	2	**11960.000**	ug/l	119,600.00	1.0	450000	45	P	
47	**Ti**	2	**1315.000**	ug/l	13,150.00	0.2	4500	45	P	
51	**V**	2	**135.000**	ug/l	1,350.00	1.2	4500	45	P	
52	**Cr**	2	**445.500**	ug/l	4,455.00	0.7	4500	45	A	
54	**Fe**	2	**104800.000**	ug/l	1,048,000.00	1.1	450000	74	A	
55	**Mn**	2	**2056.000**	ug/l	20,560.00	1.8	15000	45	A	
59	**Co**	2	**75.680**	ug/l	756.80	0.4	4500	45	P	
60	**Ni**	2	**1020.000**	ug/l	10,200.00	0.2	15000	45	P	
63	**Cu**	2	**106.100**	ug/l	1,061.00	1.6	15000	45	P	
66	**Zn**	2	**176.400**	ug/l	1,764.00	2.1	15000	45	P	
75	**As**	2	**26.640**	ug/l	266.40	1.9	4500	74	P	
78	**Se**	2	**1.554**	ug/l	15.54	10.5	4500	74	P	
88	**Sr**	3	**68.860**	ug/l	688.60	0.8	4500	74	P	
95	**Mo**	3	**2.551**	ug/l	25.51	0.6	4500	74	P	
107	**Ag**	3	**0.212**	ug/l	2.12	9.5	450	103	P	
111	**Cd**	3	**0.471**	ug/l	4.71	11.0	900	103	P	
118	**Sn**	3	**1.348**	ug/l	13.48	5.7	4500	103	P	
121	**Sb**	3	**1.672**	ug/l	16.72	4.9	4500	103	P	
135	**Ba**	3	**575.100**	ug/l	5,751.00	2.5	4500	103	P	
200	**Hg**	3	**248.900**	ug/l	2,489.00	1.4	45	209	P	Fail
205	**Tl**	3	**0.305**	ug/l	3.05	3.2	4500	209	P	
208	**Pb**	3	**28.030**	ug/l	280.30	1.4	4500	209	P	
238	**U**	3	**0.495**	ug/l	4.95	7.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3835144	1.35	5119000	**74.9**	30	-	120	
45	Sc	1	267531	0.98	341400	**78.4**	30	-	120	
45	Sc	2	277819	0.83	273900	**101.4**	30	-	120	
74	Ge	1	197288	1.01	283600	**69.6**	30	-	120	
74	Ge	2	386645	0.89	422600	**91.5**	30	-	120	
74	Ge	3	1509741	1.05	1674000	**90.2**	30	-	120	
103	Rh	2	711747	0.29	814900	**87.3**	30	-	120	
103	Rh	3	1371119	2.13	1535000	**89.3**	30	-	120	
165	Ho	3	3129831	1.31	3236000	**96.7**	30	-	120	
175	Lu	3	3470488	1.54	3584000	**96.8**	30	-	120	
209	Bi	3	6845491	1.02	7619000	**89.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\044SMPL.D\044SMPL.D#
Date Acquired: May 27 2010 05:26 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-9-B Vial Number: 2208
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.054**	ug/l	10.54	5.0	450	6	P	
23	**Na**	2	**86.690**	ug/l	866.90	3.7	450000	45	P	
24	**Mg**	2	**55500.000**	ug/l	555,000.00	2.2	450000	45	A	
27	**Al**	2	**27710.000**	ug/l	277,100.00	2.0	450000	45	A	
31	**P**	2	**715.200**	ug/l	7,152.00	1.3	450000	45	P	
39	**K**	2	**2227.000**	ug/l	22,270.00	1.0	450000	45	A	
44	**Ca**	2	**5582.000**	ug/l	55,820.00	0.8	450000	45	P	
47	**Ti**	2	**72.670**	ug/l	726.70	2.0	4500	45	P	
51	**V**	2	**89.910**	ug/l	899.10	1.4	4500	45	P	
52	**Cr**	2	**424.200**	ug/l	4,242.00	1.2	4500	45	A	
54	**Fe**	2	**88730.000**	ug/l	887,300.00	0.3	450000	74	A	
55	**Mn**	2	**1200.000**	ug/l	12,000.00	1.7	15000	45	A	
59	**Co**	2	**92.440**	ug/l	924.40	1.0	4500	45	P	
60	**Ni**	2	**1549.000**	ug/l	15,490.00	1.1	15000	45	A	
63	**Cu**	2	**68.230**	ug/l	682.30	0.6	15000	45	P	
66	**Zn**	2	**128.300**	ug/l	1,283.00	2.0	15000	45	P	
75	**As**	2	**19.790**	ug/l	197.90	0.6	4500	74	P	
78	**Se**	2	**1.597**	ug/l	15.97	42.7	4500	74	P	
88	**Sr**	3	**35.520**	ug/l	355.20	3.0	4500	74	P	
95	**Mo**	3	**1.184**	ug/l	11.84	9.3	4500	74	P	
107	**Ag**	3	**0.177**	ug/l	1.77	3.4	450	103	P	
111	**Cd**	3	**0.333**	ug/l	3.33	2.6	900	103	P	
118	**Sn**	3	**1.301**	ug/l	13.01	4.3	4500	103	P	
121	**Sb**	3	**1.388**	ug/l	13.88	6.4	4500	103	P	
135	**Ba**	3	**234.000**	ug/l	2,340.00	1.5	4500	103	P	
200	**Hg**	3	**868.100**	ug/l	8,681.00	0.7	45	209	A	Fail
205	**Tl**	3	**0.296**	ug/l	2.96	4.2	4500	209	P	
208	**Pb**	3	**20.130**	ug/l	201.30	0.8	4500	209	P	
238	**U**	3	**0.344**	ug/l	3.44	3.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3817469	1.65	5119000	**74.6**	30	-	120	
45	Sc	1	249511	1.54	341400	**73.1**	30	-	120	
45	Sc	2	275100	1.29	273900	**100.4**	30	-	120	
74	Ge	1	192058	0.49	283600	**67.7**	30	-	120	
74	Ge	2	392280	0.95	422600	**92.8**	30	-	120	
74	Ge	3	1548816	1.10	1674000	**92.5**	30	-	120	
103	Rh	2	725392	1.12	814900	**89.0**	30	-	120	
103	Rh	3	1375968	1.30	1535000	**89.6**	30	-	120	
165	Ho	3	3113791	0.69	3236000	**96.2**	30	-	120	
175	Lu	3	3445853	1.78	3584000	**96.1**	30	-	120	
209	Bi	3	6870333	0.94	7619000	**90.2**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\045SMPL.D\045SMPL.D#
Date Acquired: May 27 2010 05:33 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-10-B Vial Number: 2209
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.083**	ug/l	10.83	3.8	450	6	P	
23	**Na**	2	**54.790**	ug/l	547.90	2.4	450000	45	P	
24	**Mg**	2	**89800.000**	ug/l	898,000.00	0.8	450000	45	A	
27	**Al**	2	**35300.000**	ug/l	353,000.00	1.6	450000	45	A	
31	**P**	2	**636.800**	ug/l	6,368.00	3.4	450000	45	P	
39	**K**	2	**1562.000**	ug/l	15,620.00	1.0	450000	45	P	
44	**Ca**	2	**3221.000**	ug/l	32,210.00	1.0	450000	45	P	
47	**Ti**	2	**69.820**	ug/l	698.20	4.7	4500	45	P	
51	**V**	2	**104.100**	ug/l	1,041.00	0.1	4500	45	P	
52	**Cr**	2	**693.500**	ug/l	6,935.00	0.9	4500	45	A	
54	**Fe**	2	**96480.000**	ug/l	964,800.00	0.7	450000	74	A	
55	**Mn**	2	**1532.000**	ug/l	15,320.00	1.6	15000	45	A	
59	**Co**	2	**106.900**	ug/l	1,069.00	0.6	4500	45	P	
60	**Ni**	2	**1951.000**	ug/l	19,510.00	1.0	15000	45	A	
63	**Cu**	2	**62.010**	ug/l	620.10	0.8	15000	45	P	
66	**Zn**	2	**128.400**	ug/l	1,284.00	3.0	15000	45	P	
75	**As**	2	**12.520**	ug/l	125.20	1.3	4500	74	P	
78	**Se**	2	**1.000**	ug/l	10.00	90.2	4500	74	P	
88	**Sr**	3	**21.340**	ug/l	213.40	0.5	4500	74	P	
95	**Mo**	3	**0.563**	ug/l	5.63	4.4	4500	74	P	
107	**Ag**	3	**0.158**	ug/l	1.58	14.6	450	103	P	
111	**Cd**	3	**0.293**	ug/l	2.93	18.2	900	103	P	
118	**Sn**	3	**1.010**	ug/l	10.10	1.6	4500	103	P	
121	**Sb**	3	**0.750**	ug/l	7.50	5.1	4500	103	P	
135	**Ba**	3	**341.100**	ug/l	3,411.00	1.5	4500	103	P	
200	**Hg**	3	**1408.000**	ug/l	14,080.00	0.9	45	209	A	Fail
205	**Tl**	3	**0.200**	ug/l	2.00	6.3	4500	209	P	
208	**Pb**	3	**18.010**	ug/l	180.10	1.6	4500	209	P	
238	**U**	3	**0.285**	ug/l	2.85	2.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3561851	1.24	5119000	**69.6**	30	-	120	
45	Sc	1	242180	0.23	341400	**70.9**	30	-	120	
45	Sc	2	263229	0.82	273900	**96.1**	30	-	120	
74	Ge	1	182949	0.74	283600	**64.5**	30	-	120	
74	Ge	2	380974	0.28	422600	**90.2**	30	-	120	
74	Ge	3	1461842	0.93	1674000	**87.3**	30	-	120	
103	Rh	2	704642	0.61	814900	**86.5**	30	-	120	
103	Rh	3	1311428	1.40	1535000	**85.4**	30	-	120	
165	Ho	3	3035197	0.99	3236000	**93.8**	30	-	120	
175	Lu	3	3395777	0.64	3584000	**94.7**	30	-	120	
209	Bi	3	6652569	1.08	7619000	**87.3**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\046SMPL.D\046SMPL.D#
Date Acquired: May 27 2010 05:40 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-11-B Vial Number: 2210
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.993**	ug/l	9.93	5.4	450	6	P	
23	**Na**	2	**90.360**	ug/l	903.60	2.8	450000	45	P	
24	**Mg**	2	**18260.000**	ug/l	182,600.00	1.0	450000	45	A	
27	**Al**	2	**30000.000**	ug/l	300,000.00	1.4	450000	45	A	
31	**P**	2	**594.500**	ug/l	5,945.00	3.2	450000	45	P	
39	**K**	2	**1981.000**	ug/l	19,810.00	1.8	450000	45	P	
44	**Ca**	2	**36590.000**	ug/l	365,900.00	0.9	450000	45	P	
47	**Ti**	2	**125.700**	ug/l	1,257.00	4.4	4500	45	P	
51	**V**	2	**91.570**	ug/l	915.70	0.5	4500	45	P	
52	**Cr**	2	**762.900**	ug/l	7,629.00	0.5	4500	45	A	
54	**Fe**	2	**91030.000**	ug/l	910,300.00	1.5	450000	74	A	
55	**Mn**	2	**1197.000**	ug/l	11,970.00	1.3	15000	45	A	
59	**Co**	2	**55.330**	ug/l	553.30	0.9	4500	45	P	
60	**Ni**	2	**509.600**	ug/l	5,096.00	1.2	15000	45	P	
63	**Cu**	2	**85.080**	ug/l	850.80	1.6	15000	45	P	
66	**Zn**	2	**141.800**	ug/l	1,418.00	0.8	15000	45	P	
75	**As**	2	**19.310**	ug/l	193.10	2.9	4500	74	P	
78	**Se**	2	**1.430**	ug/l	14.30	32.7	4500	74	P	
88	**Sr**	3	**53.590**	ug/l	535.90	0.4	4500	74	P	
95	**Mo**	3	**2.907**	ug/l	29.07	5.3	4500	74	P	
107	**Ag**	3	**0.132**	ug/l	1.32	1.4	450	103	P	
111	**Cd**	3	**0.320**	ug/l	3.20	13.9	900	103	P	
118	**Sn**	3	**1.525**	ug/l	15.25	1.4	4500	103	P	
121	**Sb**	3	**1.536**	ug/l	15.36	2.5	4500	103	P	
135	**Ba**	3	**457.300**	ug/l	4,573.00	0.4	4500	103	P	
200	**Hg**	3	**1524.000**	ug/l	15,240.00	0.8	45	209	A	Fail
205	**Tl**	3	**0.371**	ug/l	3.71	4.1	4500	209	P	
208	**Pb**	3	**38.040**	ug/l	380.40	1.0	4500	209	P	
238	**U**	3	**0.362**	ug/l	3.62	2.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3800788	2.78	5119000	**74.2**	30	-	120	
45	Sc	1	263719	0.51	341400	**77.2**	30	-	120	
45	Sc	2	267832	0.18	273900	**97.8**	30	-	120	
74	Ge	1	202349	1.16	283600	**71.4**	30	-	120	
74	Ge	2	393318	1.27	422600	**93.1**	30	-	120	
74	Ge	3	1516138	0.05	1674000	**90.6**	30	-	120	
103	Rh	2	724451	0.86	814900	**88.9**	30	-	120	
103	Rh	3	1363868	1.55	1535000	**88.9**	30	-	120	
165	Ho	3	3114405	1.02	3236000	**96.2**	30	-	120	
175	Lu	3	3513836	1.21	3584000	**98.0**	30	-	120	
209	Bi	3	6994983	0.44	7619000	**91.8**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\047SMPL.D\047SMPL.D#
Date Acquired: May 27 2010 05:47 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**52.680**	ug/l	52.68	1.9	450	6	P	
23	**Na**	2	**5027.000**	ug/l	5,027.00	2.8	450000	45	A	
24	**Mg**	2	**5085.000**	ug/l	5,085.00	2.3	450000	45	A	
27	**Al**	2	**509.100**	ug/l	509.10	1.5	450000	45	P	
31	**P**	2	**5072.000**	ug/l	5,072.00	2.2	450000	45	P	
39	**K**	2	**5225.000**	ug/l	5,225.00	2.0	450000	45	A	
44	**Ca**	2	**5205.000**	ug/l	5,205.00	1.6	450000	45	P	
47	**Ti**	2	**51.670**	ug/l	51.67	1.4	4500	45	P	
51	**V**	2	**51.570**	ug/l	51.57	2.4	4500	45	P	
52	**Cr**	2	**51.200**	ug/l	51.20	1.3	4500	45	P	
54	**Fe**	2	**5194.000**	ug/l	5,194.00	0.2	450000	74	P	
55	**Mn**	2	**52.390**	ug/l	52.39	1.2	15000	45	P	
59	**Co**	2	**51.770**	ug/l	51.77	1.4	4500	45	P	
60	**Ni**	2	**52.490**	ug/l	52.49	1.7	15000	45	P	
63	**Cu**	2	**51.770**	ug/l	51.77	2.2	15000	45	P	
66	**Zn**	2	**52.960**	ug/l	52.96	1.4	15000	45	P	
75	**As**	2	**51.610**	ug/l	51.61	0.7	4500	74	P	
78	**Se**	2	**53.700**	ug/l	53.70	8.4	4500	74	P	
88	**Sr**	3	**52.570**	ug/l	52.57	0.8	4500	74	P	
95	**Mo**	3	**52.770**	ug/l	52.77	1.3	4500	74	P	
107	**Ag**	3	**51.410**	ug/l	51.41	1.1	450	103	P	
111	**Cd**	3	**50.930**	ug/l	50.93	2.1	900	103	P	
118	**Sn**	3	**51.460**	ug/l	51.46	0.7	4500	103	P	
121	**Sb**	3	**51.360**	ug/l	51.36	0.8	4500	103	P	
135	**Ba**	3	**52.220**	ug/l	52.22	3.0	4500	103	P	
200	**Hg**	3	**8.607**	ug/l	8.61	1.0	45	209	P	
205	**Tl**	3	**51.620**	ug/l	51.62	1.7	4500	209	P	
208	**Pb**	3	**52.330**	ug/l	52.33	1.6	4500	209	P	
238	**U**	3	**51.180**	ug/l	51.18	2.7	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4012178	2.36	5119000	**78.4**	30	-	120	
45	Sc	1	251214	0.74	341400	**73.6**	30	-	120	
45	Sc	2	250709	2.08	273900	**91.5**	30	-	120	
74	Ge	1	213938	1.30	283600	**75.4**	30	-	120	
74	Ge	2	396890	0.45	422600	**93.9**	30	-	120	
74	Ge	3	1539925	1.34	1674000	**92.0**	30	-	120	
103	Rh	2	747033	1.66	814900	**91.7**	30	-	120	
103	Rh	3	1430145	0.63	1535000	**93.2**	30	-	120	
165	Ho	3	3117336	0.41	3236000	**96.3**	30	-	120	
175	Lu	3	3495004	0.56	3584000	**97.5**	30	-	120	
209	Bi	3	7199308	0.44	7619000	**94.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\048SMPL.D\048SMPL.D#
Date Acquired: May 27 2010 05:54 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.006**	ug/l	0.01	82.0	450	6	P	
23	**Na**	2	**4.441**	ug/l	4.44	30.0	450000	45	P	
24	**Mg**	2	**2.775**	ug/l	2.78	15.0	450000	45	P	
27	**Al**	2	**2.373**	ug/l	2.37	19.0	450000	45	P	
31	**P**	2	**0.918**	ug/l	0.92	277.9	450000	45	P	
39	**K**	2	**17.730**	ug/l	17.73	27.5	450000	45	P	
44	**Ca**	2	**3.561**	ug/l	3.56	50.2	450000	45	P	
47	**Ti**	2	**0.182**	ug/l	0.18	62.6	4500	45	P	
51	**V**	2	**-0.057**	ug/l	-0.06	11.5	4500	45	P	
52	**Cr**	2	**-0.011**	ug/l	-0.01	197.3	4500	45	P	
54	**Fe**	2	**4.498**	ug/l	4.50	27.5	450000	74	P	
55	**Mn**	2	**0.070**	ug/l	0.07	18.4	15000	45	P	
59	**Co**	2	**0.016**	ug/l	0.02	23.7	4500	45	P	
60	**Ni**	2	**0.030**	ug/l	0.03	180.6	15000	45	P	
63	**Cu**	2	**0.042**	ug/l	0.04	48.0	15000	45	P	
66	**Zn**	2	**0.057**	ug/l	0.06	82.3	15000	45	P	
75	**As**	2	**-0.028**	ug/l	-0.03	86.5	4500	74	P	
78	**Se**	2	**-0.041**	ug/l	-0.04	1538.5	4500	74	P	
88	**Sr**	3	**0.008**	ug/l	0.01	19.3	4500	74	P	
95	**Mo**	3	**0.000**	ug/l	0.00	7838.4	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.00	62.9	450	103	P	
111	**Cd**	3	**0.006**	ug/l	0.01	122.4	900	103	P	
118	**Sn**	3	**0.034**	ug/l	0.03	47.7	4500	103	P	
121	**Sb**	3	**0.017**	ug/l	0.02	30.6	4500	103	P	
135	**Ba**	3	**0.018**	ug/l	0.02	53.2	4500	103	P	
200	**Hg**	3	**3.846**	ug/l	3.85	2.8	45	209	P	
205	**Tl**	3	**0.318**	ug/l	0.32	6.7	4500	209	P	
208	**Pb**	3	**0.009**	ug/l	0.01	19.4	4500	209	P	
238	**U**	3	**0.005**	ug/l	0.01	54.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4131408	1.41	5119000	**80.7**	30	-	120	
45	Sc	1	252092	1.88	341400	**73.8**	30	-	120	
45	Sc	2	249269	0.95	273900	**91.0**	30	-	120	
74	Ge	1	219004	0.97	283600	**77.2**	30	-	120	
74	Ge	2	401165	1.64	422600	**94.9**	30	-	120	
74	Ge	3	1544299	1.16	1674000	**92.3**	30	-	120	
103	Rh	2	774210	1.02	814900	**95.0**	30	-	120	
103	Rh	3	1451785	1.96	1535000	**94.6**	30	-	120	
165	Ho	3	3099672	0.84	3236000	**95.8**	30	-	120	
175	Lu	3	3479094	0.36	3584000	**97.1**	30	-	120	
209	Bi	3	7390407	1.25	7619000	**97.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\049SMPL.D\049SMPL.D#
Date Acquired: May 27 2010 06:02 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-12-B Vial Number: 2301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.370**	ug/l	13.70	4.7	450	6	P	
23	**Na**	2	**91.260**	ug/l	912.60	3.1	450000	45	P	
24	**Mg**	2	**30460.000**	ug/l	304,600.00	0.7	450000	45	A	
27	**Al**	2	**26750.000**	ug/l	267,500.00	0.6	450000	45	A	
31	**P**	2	**694.700**	ug/l	6,947.00	4.0	450000	45	P	
39	**K**	2	**2233.000**	ug/l	22,330.00	1.0	450000	45	A	
44	**Ca**	2	**12680.000**	ug/l	126,800.00	1.1	450000	45	P	
47	**Ti**	2	**24.230**	ug/l	242.30	2.0	4500	45	P	
51	**V**	2	**96.810**	ug/l	968.10	0.4	4500	45	P	
52	**Cr**	2	**274.800**	ug/l	2,748.00	0.9	4500	45	P	
54	**Fe**	2	**95360.000**	ug/l	953,600.00	1.4	450000	74	A	
55	**Mn**	2	**1529.000**	ug/l	15,290.00	0.6	15000	45	A	
59	**Co**	2	**75.590**	ug/l	755.90	0.6	4500	45	P	
60	**Ni**	2	**1001.000**	ug/l	10,010.00	0.6	15000	45	P	
63	**Cu**	2	**101.500**	ug/l	1,015.00	1.3	15000	45	P	
66	**Zn**	2	**161.400**	ug/l	1,614.00	1.5	15000	45	P	
75	**As**	2	**22.920**	ug/l	229.20	1.3	4500	74	P	
78	**Se**	2	**1.373**	ug/l	13.73	44.4	4500	74	P	
88	**Sr**	3	**112.700**	ug/l	1,127.00	1.5	4500	74	A	
95	**Mo**	3	**1.838**	ug/l	18.38	5.5	4500	74	P	
107	**Ag**	3	**0.234**	ug/l	2.34	12.2	450	103	P	
111	**Cd**	3	**0.428**	ug/l	4.28	12.9	900	103	P	
118	**Sn**	3	**1.299**	ug/l	12.99	3.3	4500	103	P	
121	**Sb**	3	**1.637**	ug/l	16.37	4.0	4500	103	P	
135	**Ba**	3	**298.500**	ug/l	2,985.00	1.3	4500	103	P	
200	**Hg**	3	**45.690**	ug/l	456.90	1.5	45	209	P	Fail
205	**Tl**	3	**0.329**	ug/l	3.29	3.2	4500	209	P	
208	**Pb**	3	**23.810**	ug/l	238.10	1.7	4500	209	P	
238	**U**	3	**0.286**	ug/l	2.86	1.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3818527	1.31	5119000	**74.6**	30	-	120	
45	Sc	1	270547	1.28	341400	**79.2**	30	-	120	
45	Sc	2	277442	1.08	273900	**101.3**	30	-	120	
74	Ge	1	200158	0.82	283600	**70.6**	30	-	120	
74	Ge	2	388918	1.02	422600	**92.0**	30	-	120	
74	Ge	3	1510703	0.16	1674000	**90.2**	30	-	120	
103	Rh	2	723589	1.19	814900	**88.8**	30	-	120	
103	Rh	3	1384087	1.28	1535000	**90.2**	30	-	120	
165	Ho	3	3127207	0.70	3236000	**96.6**	30	-	120	
175	Lu	3	3496387	0.87	3584000	**97.6**	30	-	120	
209	Bi	3	6971433	0.55	7619000	**91.5**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\050SMPL.D\050SMPL.D#
Date Acquired: May 27 2010 06:09 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-13-B Vial Number: 2302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.283**	ug/l	12.83	4.1	450	6	P	
23	**Na**	2	**181.500**	ug/l	1,815.00	1.2	450000	45	P	
24	**Mg**	2	**32410.000**	ug/l	324,100.00	3.3	450000	45	A	
27	**Al**	2	**8956.000**	ug/l	89,560.00	2.6	450000	45	A	
31	**P**	2	**517.900**	ug/l	5,179.00	3.2	450000	45	P	
39	**K**	2	**1962.000**	ug/l	19,620.00	1.4	450000	45	P	
44	**Ca**	2	**34860.000**	ug/l	348,600.00	1.3	450000	45	P	
47	**Ti**	2	**31.090**	ug/l	310.90	14.3	4500	45	P	
51	**V**	2	**99.340**	ug/l	993.40	1.4	4500	45	P	
52	**Cr**	2	**146.800**	ug/l	1,468.00	0.1	4500	45	P	
54	**Fe**	2	**92110.000**	ug/l	921,100.00	2.2	450000	74	A	
55	**Mn**	2	**1354.000**	ug/l	13,540.00	1.1	15000	45	A	
59	**Co**	2	**58.470**	ug/l	584.70	0.4	4500	45	P	
60	**Ni**	2	**956.200**	ug/l	9,562.00	0.2	15000	45	P	
63	**Cu**	2	**95.970**	ug/l	959.70	0.7	15000	45	P	
66	**Zn**	2	**169.800**	ug/l	1,698.00	1.5	15000	45	P	
75	**As**	2	**23.500**	ug/l	235.00	3.3	4500	74	P	
78	**Se**	2	**0.878**	ug/l	8.78	58.3	4500	74	P	
88	**Sr**	3	**126.700**	ug/l	1,267.00	2.3	4500	74	A	
95	**Mo**	3	**2.175**	ug/l	21.75	4.7	4500	74	P	
107	**Ag**	3	**0.185**	ug/l	1.85	7.5	450	103	P	
111	**Cd**	3	**0.395**	ug/l	3.95	24.5	900	103	P	
118	**Sn**	3	**1.333**	ug/l	13.33	7.9	4500	103	P	
121	**Sb**	3	**1.677**	ug/l	16.77	6.2	4500	103	P	
135	**Ba**	3	**292.100**	ug/l	2,921.00	2.8	4500	103	P	
200	**Hg**	3	**15.160**	ug/l	151.60	1.2	45	209	P	
205	**Tl**	3	**0.279**	ug/l	2.79	5.1	4500	209	P	
208	**Pb**	3	**21.890**	ug/l	218.90	1.0	4500	209	P	
238	**U**	3	**0.501**	ug/l	5.01	4.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3968399	1.30	5119000	**77.5**	30	-	120	
45	Sc	1	276429	0.93	341400	**81.0**	30	-	120	
45	Sc	2	278768	1.44	273900	**101.8**	30	-	120	
74	Ge	1	206953	1.17	283600	**73.0**	30	-	120	
74	Ge	2	390099	1.61	422600	**92.3**	30	-	120	
74	Ge	3	1523337	1.09	1674000	**91.0**	30	-	120	
103	Rh	2	715960	1.31	814900	**87.9**	30	-	120	
103	Rh	3	1376335	1.72	1535000	**89.7**	30	-	120	
165	Ho	3	3161779	0.76	3236000	**97.7**	30	-	120	
175	Lu	3	3454911	0.99	3584000	**96.4**	30	-	120	
209	Bi	3	7035391	0.89	7619000	**92.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\051SMPL.D\051SMPL.D#
Date Acquired: May 27 2010 06:16 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-14-B Vial Number: 2303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.937**	ug/l	19.37	8.2	450	6	P	
23	**Na**	2	**146.900**	ug/l	1,469.00	0.6	450000	45	P	
24	**Mg**	2	**22600.000**	ug/l	226,000.00	1.3	450000	45	A	
27	**Al**	2	**19300.000**	ug/l	193,000.00	2.8	450000	45	A	
31	**P**	2	**670.800**	ug/l	6,708.00	1.5	450000	45	P	
39	**K**	2	**2827.000**	ug/l	28,270.00	0.9	450000	45	A	
44	**Ca**	2	**8041.000**	ug/l	80,410.00	1.4	450000	45	P	
47	**Ti**	2	**9.394**	ug/l	93.94	10.9	4500	45	P	
51	**V**	2	**73.490**	ug/l	734.90	0.5	4500	45	P	
52	**Cr**	2	**120.400**	ug/l	1,204.00	0.7	4500	45	P	
54	**Fe**	2	**102300.000**	ug/l	1,023,000.00	0.7	450000	74	A	
55	**Mn**	2	**4955.000**	ug/l	49,550.00	1.5	15000	45	A	
59	**Co**	2	**113.100**	ug/l	1,131.00	0.4	4500	45	P	
60	**Ni**	2	**1329.000**	ug/l	13,290.00	0.9	15000	45	A	
63	**Cu**	2	**107.300**	ug/l	1,073.00	1.6	15000	45	P	
66	**Zn**	2	**193.900**	ug/l	1,939.00	0.7	15000	45	P	
75	**As**	2	**31.790**	ug/l	317.90	1.5	4500	74	P	
78	**Se**	2	**0.637**	ug/l	6.37	107.0	4500	74	P	
88	**Sr**	3	**77.880**	ug/l	778.80	1.4	4500	74	P	
95	**Mo**	3	**1.928**	ug/l	19.28	1.1	4500	74	P	
107	**Ag**	3	**0.295**	ug/l	2.95	4.1	450	103	P	
111	**Cd**	3	**0.539**	ug/l	5.39	5.0	900	103	P	
118	**Sn**	3	**1.519**	ug/l	15.19	1.2	4500	103	P	
121	**Sb**	3	**2.428**	ug/l	24.28	1.9	4500	103	P	
135	**Ba**	3	**860.100**	ug/l	8,601.00	0.5	4500	103	P	
200	**Hg**	3	**15.010**	ug/l	150.10	1.6	45	209	P	
205	**Tl**	3	**0.337**	ug/l	3.37	1.8	4500	209	P	
208	**Pb**	3	**38.880**	ug/l	388.80	0.9	4500	209	P	
238	**U**	3	**0.874**	ug/l	8.74	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3902140	2.59	5119000	**76.2**	30	-	120	
45	Sc	1	264277	1.45	341400	**77.4**	30	-	120	
45	Sc	2	284115	1.42	273900	**103.7**	30	-	120	
74	Ge	1	201452	0.82	283600	**71.0**	30	-	120	
74	Ge	2	410144	1.46	422600	**97.1**	30	-	120	
74	Ge	3	1580599	1.29	1674000	**94.4**	30	-	120	
103	Rh	2	752666	1.48	814900	**92.4**	30	-	120	
103	Rh	3	1436819	0.67	1535000	**93.6**	30	-	120	
165	Ho	3	3214226	1.93	3236000	**99.3**	30	-	120	
175	Lu	3	3546657	1.43	3584000	**99.0**	30	-	120	
209	Bi	3	7184806	0.87	7619000	**94.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\052SMPL.D\052SMPL.D#
Date Acquired: May 27 2010 06:23 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-15-B Vial Number: 2304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.912**	ug/l	9.12	3.2	450	6	P	
23	**Na**	2	**82.920**	ug/l	829.20	3.7	450000	45	P	
24	**Mg**	2	**164100.000**	ug/l	1,641,000.00	0.9	450000	45	A	
27	**Al**	2	**14090.000**	ug/l	140,900.00	2.0	450000	45	A	
31	**P**	2	**329.000**	ug/l	3,290.00	3.8	450000	45	P	
39	**K**	2	**1067.000**	ug/l	10,670.00	1.8	450000	45	P	
44	**Ca**	2	**5143.000**	ug/l	51,430.00	1.4	450000	45	P	
47	**Ti**	2	**374.600**	ug/l	3,746.00	1.5	4500	45	P	
51	**V**	2	**45.790**	ug/l	457.90	0.7	4500	45	P	
52	**Cr**	2	**532.100**	ug/l	5,321.00	0.4	4500	45	A	
54	**Fe**	2	**99530.000**	ug/l	995,300.00	1.9	450000	74	A	
55	**Mn**	2	**1439.000**	ug/l	14,390.00	0.4	15000	45	A	
59	**Co**	2	**176.000**	ug/l	1,760.00	1.2	4500	45	P	
60	**Ni**	2	**3585.000**	ug/l	35,850.00	0.9	15000	45	A	
63	**Cu**	2	**38.840**	ug/l	388.40	4.1	15000	45	P	
66	**Zn**	2	**117.400**	ug/l	1,174.00	1.6	15000	45	P	
75	**As**	2	**5.683**	ug/l	56.83	3.5	4500	74	P	
78	**Se**	2	**0.173**	ug/l	1.73	229.1	4500	74	P	
88	**Sr**	3	**27.990**	ug/l	279.90	2.0	4500	74	P	
95	**Mo**	3	**0.824**	ug/l	8.24	9.5	4500	74	P	
107	**Ag**	3	**0.084**	ug/l	0.84	9.0	450	103	P	
111	**Cd**	3	**0.226**	ug/l	2.26	12.2	900	103	P	
118	**Sn**	3	**0.796**	ug/l	7.96	3.7	4500	103	P	
121	**Sb**	3	**0.469**	ug/l	4.69	10.0	4500	103	P	
135	**Ba**	3	**120.100**	ug/l	1,201.00	1.0	4500	103	P	
200	**Hg**	3	**311.600**	ug/l	3,116.00	1.5	45	209	P	Fail
205	**Tl**	3	**0.542**	ug/l	5.42	5.1	4500	209	P	
208	**Pb**	3	**8.149**	ug/l	81.49	2.8	4500	209	P	
238	**U**	3	**1.185**	ug/l	11.85	2.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3482034	0.56	5119000	**68.0**	30	-	120	
45	Sc	1	247162	1.09	341400	**72.4**	30	-	120	
45	Sc	2	258984	0.87	273900	**94.6**	30	-	120	
74	Ge	1	187926	0.68	283600	**66.3**	30	-	120	
74	Ge	2	378493	1.54	422600	**89.6**	30	-	120	
74	Ge	3	1472053	2.08	1674000	**87.9**	30	-	120	
103	Rh	2	701806	0.79	814900	**86.1**	30	-	120	
103	Rh	3	1348278	1.19	1535000	**87.8**	30	-	120	
165	Ho	3	3070462	0.45	3236000	**94.9**	30	-	120	
175	Lu	3	3425759	0.26	3584000	**95.6**	30	-	120	
209	Bi	3	6700873	1.00	7619000	**87.9**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\053SMPL.D\053SMPL.D#
Date Acquired: May 27 2010 06:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-16-B Vial Number: 2305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.922**	ug/l	9.22	6.1	450	6	P	
23	**Na**	2	**109.500**	ug/l	1,095.00	4.8	450000	45	P	
24	**Mg**	2	**98430.000**	ug/l	984,300.00	2.3	450000	45	A	
27	**Al**	2	**14870.000**	ug/l	148,700.00	1.6	450000	45	A	
31	**P**	2	**297.400**	ug/l	2,974.00	2.9	450000	45	P	
39	**K**	2	**1085.000**	ug/l	10,850.00	2.9	450000	45	P	
44	**Ca**	2	**6203.000**	ug/l	62,030.00	2.0	450000	45	P	
47	**Ti**	2	**216.300**	ug/l	2,163.00	2.8	4500	45	P	
51	**V**	2	**44.120**	ug/l	441.20	1.3	4500	45	P	
52	**Cr**	2	**627.100**	ug/l	6,271.00	2.5	4500	45	A	
54	**Fe**	2	**127700.000**	ug/l	1,277,000.00	0.6	450000	74	A	
55	**Mn**	2	**1133.000**	ug/l	11,330.00	2.3	15000	45	A	
59	**Co**	2	**185.200**	ug/l	1,852.00	2.4	4500	45	P	
60	**Ni**	2	**3011.000**	ug/l	30,110.00	2.0	15000	45	A	
63	**Cu**	2	**49.360**	ug/l	493.60	2.2	15000	45	P	
66	**Zn**	2	**124.600**	ug/l	1,246.00	2.9	15000	45	P	
75	**As**	2	**6.854**	ug/l	68.54	3.7	4500	74	P	
78	**Se**	2	**1.073**	ug/l	10.73	34.5	4500	74	P	
88	**Sr**	3	**49.700**	ug/l	497.00	0.1	4500	74	P	
95	**Mo**	3	**1.098**	ug/l	10.98	3.8	4500	74	P	
107	**Ag**	3	**0.175**	ug/l	1.75	12.1	450	103	P	
111	**Cd**	3	**0.271**	ug/l	2.71	10.6	900	103	P	
118	**Sn**	3	**1.413**	ug/l	14.13	0.6	4500	103	P	
121	**Sb**	3	**8.686**	ug/l	86.86	1.4	4500	103	P	
135	**Ba**	3	**247.900**	ug/l	2,479.00	1.4	4500	103	P	
200	**Hg**	3	**858.200**	ug/l	8,582.00	1.2	45	209	A	Fail
205	**Tl**	3	**1.084**	ug/l	10.84	0.7	4500	209	P	
208	**Pb**	3	**13.390**	ug/l	133.90	0.9	4500	209	P	
238	**U**	3	**1.563**	ug/l	15.63	0.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3329996	1.69	5119000	**65.1**	30	-	120	
45	Sc	1	245773	2.76	341400	**72.0**	30	-	120	
45	Sc	2	266201	1.29	273900	**97.2**	30	-	120	
74	Ge	1	184222	2.36	283600	**65.0**	30	-	120	
74	Ge	2	383127	0.70	422600	**90.7**	30	-	120	
74	Ge	3	1518201	0.60	1674000	**90.7**	30	-	120	
103	Rh	2	712332	0.73	814900	**87.4**	30	-	120	
103	Rh	3	1374657	1.38	1535000	**89.6**	30	-	120	
165	Ho	3	3150071	0.85	3236000	**97.3**	30	-	120	
175	Lu	3	3504168	0.80	3584000	**97.8**	30	-	120	
209	Bi	3	6943918	0.35	7619000	**91.1**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\054SMPL.D\054SMPL.D#
Date Acquired: May 27 2010 06:37 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-17-A Vial Number: 2306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.146**	ug/l	11.46	3.7	450	6	P	
23	**Na**	2	**129.800**	ug/l	1,298.00	3.7	450000	45	P	
24	**Mg**	2	**68630.000**	ug/l	686,300.00	1.9	450000	45	A	
27	**Al**	2	**48410.000**	ug/l	484,100.00	2.1	450000	45	A	
31	**P**	2	**2117.000**	ug/l	21,170.00	2.0	450000	45	P	
39	**K**	2	**2795.000**	ug/l	27,950.00	1.7	450000	45	A	
44	**Ca**	2	**20840.000**	ug/l	208,400.00	2.9	450000	45	P	
47	**Ti**	2	**2808.000**	ug/l	28,080.00	3.0	4500	45	P	
51	**V**	2	**151.300**	ug/l	1,513.00	1.9	4500	45	P	
52	**Cr**	2	**435.700**	ug/l	4,357.00	2.6	4500	45	A	
54	**Fe**	2	**98510.000**	ug/l	985,100.00	1.8	450000	74	A	
55	**Mn**	2	**2227.000**	ug/l	22,270.00	1.8	15000	45	A	
59	**Co**	2	**63.380**	ug/l	633.80	2.7	4500	45	P	
60	**Ni**	2	**490.600**	ug/l	4,906.00	2.3	15000	45	P	
63	**Cu**	2	**145.200**	ug/l	1,452.00	1.9	15000	45	P	
66	**Zn**	2	**190.200**	ug/l	1,902.00	3.0	15000	45	P	
75	**As**	2	**23.360**	ug/l	233.60	2.6	4500	74	P	
78	**Se**	2	**-0.094**	ug/l	-0.94	607.6	4500	74	P	
88	**Sr**	3	**97.690**	ug/l	976.90	1.4	4500	74	A	
95	**Mo**	3	**2.275**	ug/l	22.75	2.0	4500	74	P	
107	**Ag**	3	**0.336**	ug/l	3.36	4.3	450	103	P	
111	**Cd**	3	**0.400**	ug/l	4.00	19.1	900	103	P	
118	**Sn**	3	**0.979**	ug/l	9.79	1.6	4500	103	P	
121	**Sb**	3	**1.629**	ug/l	16.29	2.4	4500	103	P	
135	**Ba**	3	**664.900**	ug/l	6,649.00	0.9	4500	103	P	
200	**Hg**	3	**27.150**	ug/l	271.50	2.1	45	209	P	
205	**Tl**	3	**0.249**	ug/l	2.49	5.1	4500	209	P	
208	**Pb**	3	**27.090**	ug/l	270.90	1.3	4500	209	P	
238	**U**	3	**0.712**	ug/l	7.12	3.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3542726	0.98	5119000	**69.2**	30	-	120	
45	Sc	1	244189	1.94	341400	**71.5**	30	-	120	
45	Sc	2	269645	1.53	273900	**98.4**	30	-	120	
74	Ge	1	188624	1.41	283600	**66.5**	30	-	120	
74	Ge	2	385395	1.20	422600	**91.2**	30	-	120	
74	Ge	3	1530081	0.90	1674000	**91.4**	30	-	120	
103	Rh	2	717670	1.51	814900	**88.1**	30	-	120	
103	Rh	3	1367175	0.30	1535000	**89.1**	30	-	120	
165	Ho	3	3134362	0.94	3236000	**96.9**	30	-	120	
175	Lu	3	3465404	1.16	3584000	**96.7**	30	-	120	
209	Bi	3	6908855	1.14	7619000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\055SMPL.D\055SMPL.D#
Date Acquired: May 27 2010 06:44 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**52.500**	ug/l	52.50	2.1	450	6	P	
23	**Na**	2	**4927.000**	ug/l	4,927.00	0.5	450000	45	A	
24	**Mg**	2	**5067.000**	ug/l	5,067.00	0.2	450000	45	A	
27	**Al**	2	**506.400**	ug/l	506.40	1.1	450000	45	P	
31	**P**	2	**5008.000**	ug/l	5,008.00	0.6	450000	45	P	
39	**K**	2	**5176.000**	ug/l	5,176.00	1.8	450000	45	A	
44	**Ca**	2	**5164.000**	ug/l	5,164.00	2.2	450000	45	P	
47	**Ti**	2	**51.960**	ug/l	51.96	1.4	4500	45	P	
51	**V**	2	**51.500**	ug/l	51.50	1.2	4500	45	P	
52	**Cr**	2	**52.410**	ug/l	52.41	1.8	4500	45	P	
54	**Fe**	2	**5135.000**	ug/l	5,135.00	0.8	450000	74	P	
55	**Mn**	2	**53.340**	ug/l	53.34	1.4	15000	45	P	
59	**Co**	2	**52.850**	ug/l	52.85	1.2	4500	45	P	
60	**Ni**	2	**52.430**	ug/l	52.43	1.0	15000	45	P	
63	**Cu**	2	**52.860**	ug/l	52.86	1.2	15000	45	P	
66	**Zn**	2	**52.640**	ug/l	52.64	0.8	15000	45	P	
75	**As**	2	**50.650**	ug/l	50.65	1.0	4500	74	P	
78	**Se**	2	**46.230**	ug/l	46.23	6.4	4500	74	P	
88	**Sr**	3	**52.540**	ug/l	52.54	1.5	4500	74	P	
95	**Mo**	3	**52.720**	ug/l	52.72	2.1	4500	74	P	
107	**Ag**	3	**50.980**	ug/l	50.98	1.7	450	103	P	
111	**Cd**	3	**50.240**	ug/l	50.24	2.1	900	103	P	
118	**Sn**	3	**51.090**	ug/l	51.09	2.3	4500	103	P	
121	**Sb**	3	**50.990**	ug/l	50.99	1.7	4500	103	P	
135	**Ba**	3	**51.260**	ug/l	51.26	1.8	4500	103	P	
200	**Hg**	3	**4.982**	ug/l	4.98	2.0	45	209	P	
205	**Tl**	3	**51.440**	ug/l	51.44	3.3	4500	209	P	
208	**Pb**	3	**52.140**	ug/l	52.14	2.2	4500	209	P	
238	**U**	3	**50.450**	ug/l	50.45	3.4	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4065145	3.72	5119000	**79.4**	30	-	120	
45	Sc	1	234860	1.09	341400	**68.8**	30	-	120	
45	Sc	2	256774	1.09	273900	**93.7**	30	-	120	
74	Ge	1	203767	1.17	283600	**71.9**	30	-	120	
74	Ge	2	416010	0.31	422600	**98.4**	30	-	120	
74	Ge	3	1625018	0.97	1674000	**97.1**	30	-	120	
103	Rh	2	783528	0.83	814900	**96.2**	30	-	120	
103	Rh	3	1516256	0.52	1535000	**98.8**	30	-	120	
165	Ho	3	3220530	0.92	3236000	**99.5**	30	-	120	
175	Lu	3	3592159	1.06	3584000	**100.2**	30	-	120	
209	Bi	3	7518471	1.09	7619000	**98.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\056SMPL.D\056SMPL.D#
Date Acquired: May 27 2010 06:51 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.009**	ug/l	0.01	14.3	450	6	P	
23	**Na**	2	**-1.422**	ug/l	-1.42	61.9	450000	45	P	
24	**Mg**	2	**4.919**	ug/l	4.92	4.5	450000	45	P	
27	**Al**	2	**2.068**	ug/l	2.07	9.8	450000	45	P	
31	**P**	2	**-1.774**	ug/l	-1.77	279.5	450000	45	P	
39	**K**	2	**5.826**	ug/l	5.83	14.0	450000	45	P	
44	**Ca**	2	**1.752**	ug/l	1.75	116.1	450000	45	P	
47	**Ti**	2	**0.122**	ug/l	0.12	32.5	4500	45	P	
51	**V**	2	**-0.115**	ug/l	-0.11	55.4	4500	45	P	
52	**Cr**	2	**0.008**	ug/l	0.01	237.6	4500	45	P	
54	**Fe**	2	**4.945**	ug/l	4.95	17.8	450000	74	P	
55	**Mn**	2	**0.097**	ug/l	0.10	13.6	15000	45	P	
59	**Co**	2	**0.015**	ug/l	0.02	23.4	4500	45	P	
60	**Ni**	2	**0.029**	ug/l	0.03	124.5	15000	45	P	
63	**Cu**	2	**0.053**	ug/l	0.05	28.6	15000	45	P	
66	**Zn**	2	**0.078**	ug/l	0.08	59.3	15000	45	P	
75	**As**	2	**-0.048**	ug/l	-0.05	32.2	4500	74	P	
78	**Se**	2	**-0.384**	ug/l	-0.38	88.8	4500	74	P	
88	**Sr**	3	**0.015**	ug/l	0.02	16.6	4500	74	P	
95	**Mo**	3	**0.003**	ug/l	0.00	263.3	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.00	111.6	450	103	P	
111	**Cd**	3	**0.007**	ug/l	0.01	60.8	900	103	P	
118	**Sn**	3	**0.026**	ug/l	0.03	30.9	4500	103	P	
121	**Sb**	3	**0.011**	ug/l	0.01	69.3	4500	103	P	
135	**Ba**	3	**0.012**	ug/l	0.01	86.6	4500	103	P	
200	**Hg**	3	**2.051**	ug/l	2.05	2.8	45	209	P	
205	**Tl**	3	**0.333**	ug/l	0.33	5.2	4500	209	P	
208	**Pb**	3	**0.012**	ug/l	0.01	16.7	4500	209	P	
238	**U**	3	**0.006**	ug/l	0.01	13.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4094792	2.04	5119000	**80.0**	30	-	120	
45	Sc	1	240183	1.35	341400	**70.4**	30	-	120	
45	Sc	2	261226	0.49	273900	**95.4**	30	-	120	
74	Ge	1	208236	1.82	283600	**73.4**	30	-	120	
74	Ge	2	424959	1.37	422600	**100.6**	30	-	120	
74	Ge	3	1633746	1.38	1674000	**97.6**	30	-	120	
103	Rh	2	813199	1.33	814900	**99.8**	30	-	120	
103	Rh	3	1537751	0.87	1535000	**100.2**	30	-	120	
165	Ho	3	3241874	1.48	3236000	**100.2**	30	-	120	
175	Lu	3	3594589	0.80	3584000	**100.3**	30	-	120	
209	Bi	3	7648634	1.12	7619000	**100.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\057SMPL.D\057SMPL.D#
Date Acquired: May 27 2010 06:58 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64514/21-A Vial Number: 2401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.05	87.8	450	6	P	
23	**Na**	2	**-0.164**	ug/l	-1.64	190.6	450000	45	P	
24	**Mg**	2	**1.383**	ug/l	13.83	11.6	450000	45	P	
27	**Al**	2	**0.543**	ug/l	5.43	24.4	450000	45	P	
31	**P**	2	**-6.724**	ug/l	-67.24	14.7	450000	45	P	
39	**K**	2	**6.495**	ug/l	64.95	37.8	450000	45	P	
44	**Ca**	2	**0.274**	ug/l	2.74	481.6	450000	45	P	
47	**Ti**	2	**0.032**	ug/l	0.32	25.7	4500	45	P	
51	**V**	2	**-0.099**	ug/l	-0.99	32.2	4500	45	P	
52	**Cr**	2	**0.006**	ug/l	0.06	294.8	4500	45	P	
54	**Fe**	2	**1.195**	ug/l	11.95	37.1	450000	74	P	
55	**Mn**	2	**0.033**	ug/l	0.33	20.7	15000	45	P	
59	**Co**	2	**0.003**	ug/l	0.03	108.0	4500	45	P	
60	**Ni**	2	**0.039**	ug/l	0.39	11.3	15000	45	P	
63	**Cu**	2	**0.018**	ug/l	0.18	98.9	15000	45	P	
66	**Zn**	2	**-0.042**	ug/l	-0.42	87.8	15000	45	P	
75	**As**	2	**-0.060**	ug/l	-0.60	38.9	4500	74	P	
78	**Se**	2	**-0.601**	ug/l	-6.01	44.8	4500	74	P	
88	**Sr**	3	**0.003**	ug/l	0.03	50.9	4500	74	P	
95	**Mo**	3	**-0.004**	ug/l	-0.04	89.0	4500	74	P	
107	**Ag**	3	**-0.001**	ug/l	-0.01	376.0	450	103	P	
111	**Cd**	3	**0.007**	ug/l	0.07	116.7	900	103	P	
118	**Sn**	3	**0.009**	ug/l	0.09	105.2	4500	103	P	
121	**Sb**	3	**0.006**	ug/l	0.06	10.3	4500	103	P	
135	**Ba**	3	**0.003**	ug/l	0.03	122.1	4500	103	P	
200	**Hg**	3	**1.870**	ug/l	18.70	2.6	45	209	P	
205	**Tl**	3	**0.119**	ug/l	1.19	12.7	4500	209	P	
208	**Pb**	3	**0.002**	ug/l	0.02	69.2	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.02	21.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4110451	1.57	5119000	**80.3**	30	-	120	
45	Sc	1	236341	0.33	341400	**69.2**	30	-	120	
45	Sc	2	257527	1.16	273900	**94.0**	30	-	120	
74	Ge	1	203169	0.38	283600	**71.6**	30	-	120	
74	Ge	2	413204	1.97	422600	**97.8**	30	-	120	
74	Ge	3	1585275	0.93	1674000	**94.7**	30	-	120	
103	Rh	2	793479	0.82	814900	**97.4**	30	-	120	
103	Rh	3	1465874	0.37	1535000	**95.5**	30	-	120	
165	Ho	3	3153516	0.67	3236000	**97.5**	30	-	120	
175	Lu	3	3492045	0.71	3584000	**97.4**	30	-	120	
209	Bi	3	7424189	0.59	7619000	**97.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\058SMPL.D\058SMPL.D#
Date Acquired: May 27 2010 07:06 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-B SD Vial Number: 2402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.042**	ug/l	2.11	22.8	450	6	P	
23	**Na**	2	**0.556**	ug/l	27.81	97.4	450000	45	P	
24	**Mg**	2	**4079.000**	ug/l	203,950.00	0.6	450000	45	A	
27	**Al**	2	**763.700**	ug/l	38,185.00	0.9	450000	45	P	
31	**P**	2	**3.194**	ug/l	159.70	144.7	450000	45	P	
39	**K**	2	**56.200**	ug/l	2,810.00	6.8	450000	45	P	
44	**Ca**	2	**71.760**	ug/l	3,588.00	4.1	450000	45	P	
47	**Ti**	2	**12.270**	ug/l	613.50	3.0	4500	45	P	
51	**V**	2	**7.928**	ug/l	396.40	2.6	4500	45	P	
52	**Cr**	2	**159.500**	ug/l	7,975.00	0.8	4500	45	P	
54	**Fe**	2	**16710.000**	ug/l	835,500.00	3.1	450000	74	A	
55	**Mn**	2	**107.400**	ug/l	5,370.00	0.8	15000	45	P	
59	**Co**	2	**37.390**	ug/l	1,869.50	0.4	4500	45	P	
60	**Ni**	2	**721.800**	ug/l	36,090.00	0.2	15000	45	P	
63	**Cu**	2	**2.200**	ug/l	110.00	2.3	15000	45	P	
66	**Zn**	2	**7.226**	ug/l	361.30	6.5	15000	45	P	
75	**As**	2	**0.164**	ug/l	8.22	37.7	4500	74	P	
78	**Se**	2	**0.022**	ug/l	1.10	1192.1	4500	74	P	
88	**Sr**	3	**0.680**	ug/l	34.01	2.5	4500	74	P	
95	**Mo**	3	**0.018**	ug/l	0.90	60.4	4500	74	P	
107	**Ag**	3	**-0.002**	ug/l	-0.10	142.6	450	103	P	
111	**Cd**	3	**0.019**	ug/l	0.95	60.6	900	103	P	
118	**Sn**	3	**0.059**	ug/l	2.95	9.3	4500	103	P	
121	**Sb**	3	**0.041**	ug/l	2.07	10.0	4500	103	P	
135	**Ba**	3	**48.430**	ug/l	2,421.50	3.3	4500	103	P	
200	**Hg**	3	**12.870**	ug/l	643.50	0.6	45	209	P	
205	**Tl**	3	**0.158**	ug/l	7.90	1.8	4500	209	P	
208	**Pb**	3	**0.482**	ug/l	24.11	2.8	4500	209	P	
238	**U**	3	**0.034**	ug/l	1.68	8.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4382010	0.65	5119000	**85.6**	30	-	120	
45	Sc	1	248803	1.30	341400	**72.9**	30	-	120	
45	Sc	2	260562	0.55	273900	**95.1**	30	-	120	
74	Ge	1	211860	1.36	283600	**74.7**	30	-	120	
74	Ge	2	408483	1.77	422600	**96.7**	30	-	120	
74	Ge	3	1608492	2.13	1674000	**96.1**	30	-	120	
103	Rh	2	763885	1.72	814900	**93.7**	30	-	120	
103	Rh	3	1464498	0.61	1535000	**95.4**	30	-	120	
165	Ho	3	3117845	1.25	3236000	**96.3**	30	-	120	
175	Lu	3	3451204	0.09	3584000	**96.3**	30	-	120	
209	Bi	3	7336501	0.68	7619000	**96.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\059SMPL.D\059SMPL.D#
Date Acquired: May 27 2010 07:13 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-B Vial Number: 2403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.211**	ug/l	2.11	4.0	450	6	P	
23	**Na**	2	**33.680**	ug/l	336.80	1.9	450000	45	P	
24	**Mg**	2	**18490.000**	ug/l	184,900.00	0.8	450000	45	A	
27	**Al**	2	**3480.000**	ug/l	34,800.00	0.4	450000	45	P	
31	**P**	2	**39.530**	ug/l	395.30	4.1	450000	45	P	
39	**K**	2	**230.500**	ug/l	2,305.00	1.1	450000	45	P	
44	**Ca**	2	**315.600**	ug/l	3,156.00	5.5	450000	45	P	
47	**Ti**	2	**57.860**	ug/l	578.60	4.7	4500	45	P	
51	**V**	2	**38.930**	ug/l	389.30	1.8	4500	45	P	
52	**Cr**	2	**730.900**	ug/l	7,309.00	0.7	4500	45	A	
54	**Fe**	2	**78450.000**	ug/l	784,500.00	0.8	450000	74	A	
55	**Mn**	2	**503.400**	ug/l	5,034.00	0.2	15000	45	P	
59	**Co**	2	**172.200**	ug/l	1,722.00	0.4	4500	45	P	
60	**Ni**	2	**3211.000**	ug/l	32,110.00	0.7	15000	45	A	
63	**Cu**	2	**10.170**	ug/l	101.70	1.5	15000	45	P	
66	**Zn**	2	**34.790**	ug/l	347.90	2.1	15000	45	P	
75	**As**	2	**1.174**	ug/l	11.74	4.4	4500	74	P	
78	**Se**	2	**0.059**	ug/l	0.59	627.7	4500	74	P	
88	**Sr**	3	**3.155**	ug/l	31.55	1.6	4500	74	P	
95	**Mo**	3	**0.148**	ug/l	1.48	19.5	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.08	69.0	450	103	P	
111	**Cd**	3	**0.073**	ug/l	0.73	28.7	900	103	P	
118	**Sn**	3	**0.336**	ug/l	3.36	4.4	4500	103	P	
121	**Sb**	3	**0.224**	ug/l	2.24	6.4	4500	103	P	
135	**Ba**	3	**236.800**	ug/l	2,368.00	0.7	4500	103	P	
200	**Hg**	3	**51.540**	ug/l	515.40	0.9	45	209	P	Fail
205	**Tl**	3	**0.398**	ug/l	3.98	3.8	4500	209	P	
208	**Pb**	3	**2.374**	ug/l	23.74	0.4	4500	209	P	
238	**U**	3	**0.159**	ug/l	1.59	4.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3704910	1.55	5119000	**72.4**	30	-	120	
45	Sc	1	246015	1.05	341400	**72.1**	30	-	120	
45	Sc	2	255742	0.61	273900	**93.4**	30	-	120	
74	Ge	1	198652	1.14	283600	**70.0**	30	-	120	
74	Ge	2	390926	1.47	422600	**92.5**	30	-	120	
74	Ge	3	1528704	1.28	1674000	**91.3**	30	-	120	
103	Rh	2	728753	0.75	814900	**89.4**	30	-	120	
103	Rh	3	1389861	2.27	1535000	**90.5**	30	-	120	
165	Ho	3	3094058	0.92	3236000	**95.6**	30	-	120	
175	Lu	3	3442889	0.35	3584000	**96.1**	30	-	120	
209	Bi	3	7036718	1.15	7619000	**92.4**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\060SMPL.D\060SMPL.D#
Date Acquired: May 27 2010 07:20 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-C DU Vial Number: 2404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.225**	ug/l	2.25	3.8	450	6	P	
23	**Na**	2	**38.730**	ug/l	387.30	1.6	450000	45	P	
24	**Mg**	2	**18890.000**	ug/l	188,900.00	1.5	450000	45	A	
27	**Al**	2	**3546.000**	ug/l	35,460.00	0.6	450000	45	P	
31	**P**	2	**30.300**	ug/l	303.00	13.7	450000	45	P	
39	**K**	2	**237.500**	ug/l	2,375.00	2.6	450000	45	P	
44	**Ca**	2	**317.200**	ug/l	3,172.00	13.7	450000	45	P	
47	**Ti**	2	**57.280**	ug/l	572.80	1.7	4500	45	P	
51	**V**	2	**39.430**	ug/l	394.30	1.5	4500	45	P	
52	**Cr**	2	**740.400**	ug/l	7,404.00	0.2	4500	45	A	
54	**Fe**	2	**77890.000**	ug/l	778,900.00	0.6	450000	74	A	
55	**Mn**	2	**507.000**	ug/l	5,070.00	1.2	15000	45	P	
59	**Co**	2	**175.200**	ug/l	1,752.00	1.0	4500	45	P	
60	**Ni**	2	**3253.000**	ug/l	32,530.00	0.6	15000	45	A	
63	**Cu**	2	**9.980**	ug/l	99.80	3.7	15000	45	P	
66	**Zn**	2	**35.400**	ug/l	354.00	2.2	15000	45	P	
75	**As**	2	**1.155**	ug/l	11.55	7.7	4500	74	P	
78	**Se**	2	**-0.173**	ug/l	-1.73	220.9	4500	74	P	
88	**Sr**	3	**3.279**	ug/l	32.79	1.7	4500	74	P	
95	**Mo**	3	**0.128**	ug/l	1.28	7.4	4500	74	P	
107	**Ag**	3	**0.011**	ug/l	0.11	7.1	450	103	P	
111	**Cd**	3	**0.081**	ug/l	0.81	32.7	900	103	P	
118	**Sn**	3	**0.353**	ug/l	3.53	4.2	4500	103	P	
121	**Sb**	3	**0.223**	ug/l	2.23	15.6	4500	103	P	
135	**Ba**	3	**241.900**	ug/l	2,419.00	0.4	4500	103	P	
200	**Hg**	3	**51.330**	ug/l	513.30	0.4	45	209	P	Fail
205	**Tl**	3	**0.398**	ug/l	3.98	2.6	4500	209	P	
208	**Pb**	3	**2.334**	ug/l	23.34	2.8	4500	209	P	
238	**U**	3	**0.160**	ug/l	1.60	9.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3719100	2.15	5119000	**72.7**	30	-	120	
45	Sc	1	242408	0.35	341400	**71.0**	30	-	120	
45	Sc	2	248218	0.92	273900	**90.6**	30	-	120	
74	Ge	1	195040	1.27	283600	**68.8**	30	-	120	
74	Ge	2	382722	0.60	422600	**90.6**	30	-	120	
74	Ge	3	1493530	1.23	1674000	**89.2**	30	-	120	
103	Rh	2	717094	1.11	814900	**88.0**	30	-	120	
103	Rh	3	1371571	1.11	1535000	**89.4**	30	-	120	
165	Ho	3	3080849	0.63	3236000	**95.2**	30	-	120	
175	Lu	3	3442726	0.56	3584000	**96.1**	30	-	120	
209	Bi	3	7075315	1.30	7619000	**92.9**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\061SMPL.D\061SMPL.D#
Date Acquired: May 27 2010 07:27 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-D MS Vial Number: 2405
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.944**	ug/l	97.20	4.5	450	6	P	
23	**Na**	2	**414.800**	ug/l	20,740.00	1.1	450000	45	P	
24	**Mg**	2	**4032.000**	ug/l	201,600.00	1.8	450000	45	A	
27	**Al**	2	**763.500**	ug/l	38,175.00	1.5	450000	45	P	
31	**P**	2	**381.200**	ug/l	19,060.00	1.7	450000	45	P	
39	**K**	2	**473.200**	ug/l	23,660.00	0.9	450000	45	P	
44	**Ca**	2	**463.500**	ug/l	23,175.00	5.6	450000	45	P	
47	**Ti**	2	**108.000**	ug/l	5,400.00	1.0	4500	45	P	
51	**V**	2	**26.940**	ug/l	1,347.00	2.0	4500	45	P	
52	**Cr**	2	**152.300**	ug/l	7,615.00	5.2	4500	45	P	
54	**Fe**	2	**15140.000**	ug/l	757,000.00	1.1	450000	74	A	
55	**Mn**	2	**114.600**	ug/l	5,730.00	0.7	15000	45	P	
59	**Co**	2	**53.100**	ug/l	2,655.00	1.0	4500	45	P	
60	**Ni**	2	**647.600**	ug/l	32,380.00	1.0	15000	45	P	
63	**Cu**	2	**12.270**	ug/l	613.50	1.2	15000	45	P	
66	**Zn**	2	**27.140**	ug/l	1,357.00	1.6	15000	45	P	
75	**As**	2	**78.640**	ug/l	3,932.00	1.1	4500	74	P	
78	**Se**	2	**75.800**	ug/l	3,790.00	4.3	4500	74	P	
88	**Sr**	3	**0.562**	ug/l	28.08	4.4	4500	74	P	
95	**Mo**	3	**100.400**	ug/l	5,020.00	2.0	4500	74	P	
107	**Ag**	3	**12.260**	ug/l	613.00	3.7	450	103	P	
111	**Cd**	3	**2.074**	ug/l	103.70	7.0	900	103	P	
118	**Sn**	3	**99.960**	ug/l	4,998.00	1.6	4500	103	P	
121	**Sb**	3	**54.450**	ug/l	2,722.50	1.2	4500	103	P	
135	**Ba**	3	**122.600**	ug/l	6,130.00	2.1	4500	103	P	
200	**Hg**	3	**11.740**	ug/l	587.00	0.2	45	209	P	
205	**Tl**	3	**80.220**	ug/l	4,011.00	0.3	4500	209	A	
208	**Pb**	3	**21.220**	ug/l	1,061.00	0.7	4500	209	P	
238	**U**	3	**0.027**	ug/l	1.37	19.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4483238	2.51	5119000	**87.6**	30	-	120	
45	Sc	1	242232	1.08	341400	**71.0**	30	-	120	
45	Sc	2	251941	1.70	273900	**92.0**	30	-	120	
74	Ge	1	207456	0.65	283600	**73.2**	30	-	120	
74	Ge	2	397488	1.46	422600	**94.1**	30	-	120	
74	Ge	3	1578035	0.88	1674000	**94.3**	30	-	120	
103	Rh	2	744636	2.35	814900	**91.4**	30	-	120	
103	Rh	3	1459816	2.37	1535000	**95.1**	30	-	120	
165	Ho	3	3100036	0.48	3236000	**95.8**	30	-	120	
175	Lu	3	3399594	0.96	3584000	**94.9**	30	-	120	
209	Bi	3	7197300	0.24	7619000	**94.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\062SMPL.D\062SMPL.D#
Date Acquired: May 27 2010 07:34 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-E MSD Vial Number: 2406
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.976**	ug/l	98.80	2.3	450	6	P	
23	**Na**	2	**419.500**	ug/l	20,975.00	2.7	450000	45	P	
24	**Mg**	2	**4038.000**	ug/l	201,900.00	1.1	450000	45	A	
27	**Al**	2	**739.200**	ug/l	36,960.00	1.5	450000	45	P	
31	**P**	2	**396.500**	ug/l	19,825.00	5.3	450000	45	P	
39	**K**	2	**475.700**	ug/l	23,785.00	2.9	450000	45	P	
44	**Ca**	2	**454.000**	ug/l	22,700.00	0.9	450000	45	P	
47	**Ti**	2	**110.000**	ug/l	5,500.00	3.5	4500	45	P	
51	**V**	2	**26.430**	ug/l	1,321.50	2.8	4500	45	P	
52	**Cr**	2	**147.500**	ug/l	7,375.00	2.5	4500	45	P	
54	**Fe**	2	**14840.000**	ug/l	742,000.00	1.8	450000	74	A	
55	**Mn**	2	**114.000**	ug/l	5,700.00	1.5	15000	45	P	
59	**Co**	2	**52.980**	ug/l	2,649.00	1.4	4500	45	P	
60	**Ni**	2	**650.200**	ug/l	32,510.00	1.1	15000	45	P	
63	**Cu**	2	**12.310**	ug/l	615.50	2.1	15000	45	P	
66	**Zn**	2	**26.910**	ug/l	1,345.50	3.6	15000	45	P	
75	**As**	2	**77.990**	ug/l	3,899.50	0.7	4500	74	P	
78	**Se**	2	**83.670**	ug/l	4,183.50	7.0	4500	74	P	
88	**Sr**	3	**0.564**	ug/l	28.18	6.4	4500	74	P	
95	**Mo**	3	**99.680**	ug/l	4,984.00	1.8	4500	74	P	
107	**Ag**	3	**12.130**	ug/l	606.50	2.1	450	103	P	
111	**Cd**	3	**2.130**	ug/l	106.50	4.2	900	103	P	
118	**Sn**	3	**100.000**	ug/l	5,000.00	2.7	4500	103	P	
121	**Sb**	3	**55.270**	ug/l	2,763.50	2.2	4500	103	P	
135	**Ba**	3	**123.400**	ug/l	6,170.00	0.8	4500	103	P	
200	**Hg**	3	**11.470**	ug/l	573.50	2.0	45	209	P	
205	**Tl**	3	**79.780**	ug/l	3,989.00	0.9	4500	209	A	
208	**Pb**	3	**21.100**	ug/l	1,055.00	0.6	4500	209	P	
238	**U**	3	**0.027**	ug/l	1.34	11.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4553204	1.74	5119000	**88.9**	30	-	120	
45	Sc	1	241585	1.01	341400	**70.8**	30	-	120	
45	Sc	2	255045	2.03	273900	**93.1**	30	-	120	
74	Ge	1	206768	1.42	283600	**72.9**	30	-	120	
74	Ge	2	404786	0.70	422600	**95.8**	30	-	120	
74	Ge	3	1604519	1.84	1674000	**95.8**	30	-	120	
103	Rh	2	757537	1.80	814900	**93.0**	30	-	120	
103	Rh	3	1461285	2.46	1535000	**95.2**	30	-	120	
165	Ho	3	3144309	0.49	3236000	**97.2**	30	-	120	
175	Lu	3	3471384	0.19	3584000	**96.9**	30	-	120	
209	Bi	3	7244944	0.51	7619000	**95.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\063SMPL.D\063SMPL.D#
Date Acquired: May 27 2010 07:41 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-B PDS Vial Number: 2407
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.006**	ug/l	100.30	4.5	450	6	P	
23	**Na**	2	**398.200**	ug/l	19,910.00	0.6	450000	45	P	
24	**Mg**	2	**3876.000**	ug/l	193,800.00	0.7	450000	45	A	
27	**Al**	2	**718.300**	ug/l	35,915.00	1.0	450000	45	P	
31	**P**	2	**373.700**	ug/l	18,685.00	3.1	450000	45	P	
39	**K**	2	**463.700**	ug/l	23,185.00	1.1	450000	45	P	
44	**Ca**	2	**445.900**	ug/l	22,295.00	2.5	450000	45	P	
47	**Ti**	2	**104.700**	ug/l	5,235.00	2.2	4500	45	P	
51	**V**	2	**26.450**	ug/l	1,322.50	1.6	4500	45	P	
52	**Cr**	2	**144.200**	ug/l	7,210.00	0.9	4500	45	P	
54	**Fe**	2	**14640.000**	ug/l	732,000.00	1.5	450000	74	A	
55	**Mn**	2	**111.100**	ug/l	5,555.00	0.9	15000	45	P	
59	**Co**	2	**51.360**	ug/l	2,568.00	1.1	4500	45	P	
60	**Ni**	2	**635.200**	ug/l	31,760.00	0.5	15000	45	P	
63	**Cu**	2	**11.780**	ug/l	589.00	2.2	15000	45	P	
66	**Zn**	2	**26.440**	ug/l	1,322.00	1.6	15000	45	P	
75	**As**	2	**76.570**	ug/l	3,828.50	0.8	4500	74	P	
78	**Se**	2	**81.780**	ug/l	4,089.00	5.0	4500	74	P	
88	**Sr**	3	**0.554**	ug/l	27.72	4.2	4500	74	P	
95	**Mo**	3	**98.050**	ug/l	4,902.50	2.9	4500	74	P	
107	**Ag**	3	**12.110**	ug/l	605.50	1.5	450	103	P	
111	**Cd**	3	**2.000**	ug/l	100.00	4.1	900	103	P	
118	**Sn**	3	**98.690**	ug/l	4,934.50	1.6	4500	103	P	
121	**Sb**	3	**54.540**	ug/l	2,727.00	0.2	4500	103	P	
135	**Ba**	3	**120.400**	ug/l	6,020.00	2.0	4500	103	P	
200	**Hg**	3	**11.050**	ug/l	552.50	0.4	45	209	P	
205	**Tl**	3	**77.910**	ug/l	3,895.50	1.4	4500	209	A	
208	**Pb**	3	**20.530**	ug/l	1,026.50	2.6	4500	209	P	
238	**U**	3	**0.026**	ug/l	1.28	13.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4435599	1.47	5119000	**86.6**	30	-	120	
45	Sc	1	252049	1.57	341400	**73.8**	30	-	120	
45	Sc	2	261260	0.80	273900	**95.4**	30	-	120	
74	Ge	1	215105	1.24	283600	**75.8**	30	-	120	
74	Ge	2	409620	0.93	422600	**96.9**	30	-	120	
74	Ge	3	1611701	1.19	1674000	**96.3**	30	-	120	
103	Rh	2	767210	0.88	814900	**94.1**	30	-	120	
103	Rh	3	1470478	0.50	1535000	**95.8**	30	-	120	
165	Ho	3	3164186	1.89	3236000	**97.8**	30	-	120	
175	Lu	3	3473885	1.35	3584000	**96.9**	30	-	120	
209	Bi	3	7332680	1.02	7619000	**96.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\064SMPL.D\064SMPL.D#
Date Acquired: May 27 2010 07:49 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64514/22-A Vial Number: 2408
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.141**	ug/l	107.05	13.5	450	6	P	
23	**Na**	2	**414.000**	ug/l	20,700.00	1.7	450000	45	P	
24	**Mg**	2	**414.400**	ug/l	20,720.00	0.8	450000	45	P	
27	**Al**	2	**76.980**	ug/l	3,849.00	1.3	450000	45	P	
31	**P**	2	**374.300**	ug/l	18,715.00	3.4	450000	45	P	
39	**K**	2	**430.100**	ug/l	21,505.00	2.0	450000	45	P	
44	**Ca**	2	**420.100**	ug/l	21,005.00	3.1	450000	45	P	
47	**Ti**	2	**100.300**	ug/l	5,015.00	0.7	4500	45	P	
51	**V**	2	**20.780**	ug/l	1,039.00	0.9	4500	45	P	
52	**Cr**	2	**8.429**	ug/l	421.45	0.3	4500	45	P	
54	**Fe**	2	**463.300**	ug/l	23,165.00	1.7	450000	74	P	
55	**Mn**	2	**20.930**	ug/l	1,046.50	0.9	15000	45	P	
59	**Co**	2	**21.010**	ug/l	1,050.50	0.7	4500	45	P	
60	**Ni**	2	**20.850**	ug/l	1,042.50	2.0	15000	45	P	
63	**Cu**	2	**11.130**	ug/l	556.50	2.9	15000	45	P	
66	**Zn**	2	**21.150**	ug/l	1,057.50	1.7	15000	45	P	
75	**As**	2	**81.690**	ug/l	4,084.50	2.0	4500	74	P	
78	**Se**	2	**83.070**	ug/l	4,153.50	6.6	4500	74	P	
88	**Sr**	3	**0.013**	ug/l	0.64	11.7	4500	74	P	
95	**Mo**	3	**112.900**	ug/l	5,645.00	12.3	4500	74	P	
107	**Ag**	3	**13.390**	ug/l	669.50	13.1	450	103	P	
111	**Cd**	3	**2.093**	ug/l	104.65	16.2	900	103	P	
118	**Sn**	3	**111.900**	ug/l	5,595.00	13.2	4500	103	P	
121	**Sb**	3	**63.700**	ug/l	3,185.00	12.6	4500	103	P	
135	**Ba**	3	**88.480**	ug/l	4,424.00	12.9	4500	103	P	
200	**Hg**	3	**1.948**	ug/l	97.40	10.1	45	209	P	
205	**Tl**	3	**86.010**	ug/l	4,300.50	14.5	4500	209	A	
208	**Pb**	3	**22.510**	ug/l	1,125.50	12.5	4500	209	P	
238	**U**	3	**-0.001**	ug/l	-0.07	35.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3807644	6.30	5119000	**74.4**	30	-	120	
45	Sc	1	222716	1.74	341400	**65.2**	30	-	120	
45	Sc	2	249146	0.20	273900	**91.0**	30	-	120	
74	Ge	1	194844	1.39	283600	**68.7**	30	-	120	
74	Ge	2	401601	1.63	422600	**95.0**	30	-	120	
74	Ge	3	1445272	9.24	1674000	**86.3**	30	-	120	
103	Rh	2	769274	0.62	814900	**94.4**	30	-	120	
103	Rh	3	1353900	9.39	1535000	**88.2**	30	-	120	
165	Ho	3	2926689	12.48	3236000	**90.4**	30	-	120	
175	Lu	3	3236367	9.66	3584000	**90.3**	30	-	120	
209	Bi	3	6874753	9.81	7619000	**90.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\065SMPL.D\065SMPL.D#
Date Acquired: May 27 2010 07:56 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64514/23-A Vial Number: 2409
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.064**	ug/l	103.20	1.4	450	6	P	
23	**Na**	2	**409.600**	ug/l	20,480.00	0.6	450000	45	P	
24	**Mg**	2	**412.600**	ug/l	20,630.00	1.0	450000	45	P	
27	**Al**	2	**78.350**	ug/l	3,917.50	1.8	450000	45	P	
31	**P**	2	**380.800**	ug/l	19,040.00	4.2	450000	45	P	
39	**K**	2	**434.200**	ug/l	21,710.00	0.1	450000	45	P	
44	**Ca**	2	**431.900**	ug/l	21,595.00	5.9	450000	45	P	
47	**Ti**	2	**100.700**	ug/l	5,035.00	1.2	4500	45	P	
51	**V**	2	**20.490**	ug/l	1,024.50	0.5	4500	45	P	
52	**Cr**	2	**8.247**	ug/l	412.35	1.3	4500	45	P	
54	**Fe**	2	**451.100**	ug/l	22,555.00	2.6	450000	74	P	
55	**Mn**	2	**20.700**	ug/l	1,035.00	0.6	15000	45	P	
59	**Co**	2	**21.040**	ug/l	1,052.00	1.7	4500	45	P	
60	**Ni**	2	**21.050**	ug/l	1,052.50	0.6	15000	45	P	
63	**Cu**	2	**10.690**	ug/l	534.50	2.4	15000	45	P	
66	**Zn**	2	**21.150**	ug/l	1,057.50	1.9	15000	45	P	
75	**As**	2	**81.430**	ug/l	4,071.50	2.6	4500	74	P	
78	**Se**	2	**80.700**	ug/l	4,035.00	2.5	4500	74	P	
88	**Sr**	3	**0.006**	ug/l	0.30	73.6	4500	74	P	
95	**Mo**	3	**105.500**	ug/l	5,275.00	2.3	4500	74	P	
107	**Ag**	3	**12.250**	ug/l	612.50	2.0	450	103	P	
111	**Cd**	3	**2.075**	ug/l	103.75	5.7	900	103	P	
118	**Sn**	3	**103.000**	ug/l	5,150.00	0.8	4500	103	P	
121	**Sb**	3	**58.820**	ug/l	2,941.00	1.1	4500	103	P	
135	**Ba**	3	**81.170**	ug/l	4,058.50	1.2	4500	103	P	
200	**Hg**	3	**1.659**	ug/l	82.95	0.9	45	209	P	
205	**Tl**	3	**81.150**	ug/l	4,057.50	0.8	4500	209	A	
208	**Pb**	3	**20.940**	ug/l	1,047.00	0.6	4500	209	P	
238	**U**	3	**-0.001**	ug/l	-0.07	17.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4064432	0.98	5119000	**79.4**	30	-	120	
45	Sc	1	233042	2.09	341400	**68.3**	30	-	120	
45	Sc	2	251031	0.86	273900	**91.7**	30	-	120	
74	Ge	1	201240	1.45	283600	**71.0**	30	-	120	
74	Ge	2	404714	1.00	422600	**95.8**	30	-	120	
74	Ge	3	1565711	1.95	1674000	**93.5**	30	-	120	
103	Rh	2	771380	0.91	814900	**94.7**	30	-	120	
103	Rh	3	1473166	1.12	1535000	**96.0**	30	-	120	
165	Ho	3	3176658	1.23	3236000	**98.2**	30	-	120	
175	Lu	3	3480876	0.36	3584000	**97.1**	30	-	120	
209	Bi	3	7424391	0.61	7619000	**97.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\066SMPL.D\066SMPL.D#
Date Acquired: May 27 2010 08:03 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64514/24-A Vial Number: 2410
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**90.700**	ug/l	1,814.00	0.9	450	6	P	
23	**Na**	2	**299.700**	ug/l	5,994.00	27.4	450000	45	P	
24	**Mg**	2	**2315.000**	ug/l	46,300.00	23.1	450000	45	A	
27	**Al**	2	**5592.000**	ug/l	111,840.00	21.4	450000	45	A	
31	**P**	2	**399.100**	ug/l	7,982.00	20.6	450000	45	P	
39	**K**	2	**2304.000**	ug/l	46,080.00	23.2	450000	45	M	
44	**Ca**	2	**5374.000**	ug/l	107,480.00	21.5	450000	45	P	
47	**Ti**	2	**260.200**	ug/l	5,204.00	23.1	4500	45	P	
51	**V**	2	**54.100**	ug/l	1,082.00	21.1	4500	45	P	
52	**Cr**	2	**68.140**	ug/l	1,362.80	20.1	4500	45	P	
54	**Fe**	2	**9953.000**	ug/l	199,060.00	16.7	450000	74	A	
55	**Mn**	2	**203.300**	ug/l	4,066.00	21.2	15000	45	P	
59	**Co**	2	**67.120**	ug/l	1,342.40	21.7	4500	45	P	
60	**Ni**	2	**100.300**	ug/l	2,006.00	22.6	15000	45	P	
63	**Cu**	2	**38.340**	ug/l	766.80	23.5	15000	45	P	
66	**Zn**	2	**201.300**	ug/l	4,026.00	21.0	15000	45	P	
75	**As**	2	**129.200**	ug/l	2,584.00	16.0	4500	74	P	
78	**Se**	2	**88.370**	ug/l	1,767.40	13.6	4500	74	P	
88	**Sr**	3	**69.560**	ug/l	1,391.20	0.5	4500	74	P	
95	**Mo**	3	**64.790**	ug/l	1,295.80	1.1	4500	74	P	
107	**Ag**	3	**20.550**	ug/l	411.00	1.6	450	103	P	
111	**Cd**	3	**38.020**	ug/l	760.40	2.3	900	103	P	
118	**Sn**	3	**96.630**	ug/l	1,932.60	1.9	4500	103	P	
121	**Sb**	3	**80.970**	ug/l	1,619.40	1.1	4500	103	P	
135	**Ba**	3	**323.200**	ug/l	6,464.00	1.2	4500	103	P	
200	**Hg**	3	**3.428**	ug/l	68.56	2.7	45	209	P	
205	**Tl**	3	**100.000**	ug/l	2,000.00	1.0	4500	209	A	
208	**Pb**	3	**124.500**	ug/l	2,490.00	0.8	4500	209	A	
238	**U**	3	**0.997**	ug/l	19.94	2.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4348824	0.52	5119000	**85.0**	30	-	120	
45	Sc	1	239875	0.99	341400	**70.3**	30	-	120	
45	Sc	2	265998	18.82	273900	**97.1**	30	-	120	
74	Ge	1	204296	1.72	283600	**72.0**	30	-	120	
74	Ge	2	411580	13.92	422600	**97.4**	30	-	120	
74	Ge	3	1587276	0.91	1674000	**94.8**	30	-	120	
103	Rh	2	775520	17.76	814900	**95.2**	30	-	120	
103	Rh	3	1443792	0.82	1535000	**94.1**	30	-	120	
165	Ho	3	3108195	0.46	3236000	**96.1**	30	-	120	
175	Lu	3	3426006	0.83	3584000	**95.6**	30	-	120	
209	Bi	3	7107943	0.07	7619000	**93.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\067SMPL.D\067SMPL.D#
Date Acquired: May 27 2010 08:10 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**53.130**	ug/l	53.13	2.9	450	6	P	
23	**Na**	2	**4987.000**	ug/l	4,987.00	0.7	450000	45	A	
24	**Mg**	2	**5069.000**	ug/l	5,069.00	1.2	450000	45	A	
27	**Al**	2	**504.000**	ug/l	504.00	0.6	450000	45	P	
31	**P**	2	**5142.000**	ug/l	5,142.00	0.4	450000	45	P	
39	**K**	2	**5234.000**	ug/l	5,234.00	1.8	450000	45	A	
44	**Ca**	2	**5175.000**	ug/l	5,175.00	0.3	450000	45	P	
47	**Ti**	2	**52.440**	ug/l	52.44	1.3	4500	45	P	
51	**V**	2	**52.040**	ug/l	52.04	1.9	4500	45	P	
52	**Cr**	2	**52.420**	ug/l	52.42	1.7	4500	45	P	
54	**Fe**	2	**5207.000**	ug/l	5,207.00	1.3	450000	74	P	
55	**Mn**	2	**53.070**	ug/l	53.07	0.6	15000	45	P	
59	**Co**	2	**52.820**	ug/l	52.82	1.0	4500	45	P	
60	**Ni**	2	**53.460**	ug/l	53.46	1.1	15000	45	P	
63	**Cu**	2	**53.110**	ug/l	53.11	1.5	15000	45	P	
66	**Zn**	2	**53.250**	ug/l	53.25	1.3	15000	45	P	
75	**As**	2	**52.710**	ug/l	52.71	0.6	4500	74	P	
78	**Se**	2	**52.530**	ug/l	52.53	1.3	4500	74	P	
88	**Sr**	3	**52.690**	ug/l	52.69	1.2	4500	74	P	
95	**Mo**	3	**52.680**	ug/l	52.68	1.5	4500	74	P	
107	**Ag**	3	**51.700**	ug/l	51.70	1.9	450	103	P	
111	**Cd**	3	**52.510**	ug/l	52.51	2.6	900	103	P	
118	**Sn**	3	**51.780**	ug/l	51.78	3.9	4500	103	P	
121	**Sb**	3	**51.880**	ug/l	51.88	2.4	4500	103	P	
135	**Ba**	3	**52.420**	ug/l	52.42	2.5	4500	103	P	
200	**Hg**	3	**3.235**	ug/l	3.24	1.7	45	209	P	
205	**Tl**	3	**52.560**	ug/l	52.56	1.6	4500	209	P	
208	**Pb**	3	**52.780**	ug/l	52.78	1.2	4500	209	P	
238	**U**	3	**50.830**	ug/l	50.83	1.5	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4146467	1.26	5119000	**81.0**	30	-	120	
45	Sc	1	227462	1.55	341400	**66.6**	30	-	120	
45	Sc	2	251280	0.93	273900	**91.7**	30	-	120	
74	Ge	1	197786	1.13	283600	**69.7**	30	-	120	
74	Ge	2	402081	1.11	422600	**95.1**	30	-	120	
74	Ge	3	1577998	0.48	1674000	**94.3**	30	-	120	
103	Rh	2	741882	0.87	814900	**91.0**	30	-	120	
103	Rh	3	1439497	1.14	1535000	**93.8**	30	-	120	
165	Ho	3	3092552	0.58	3236000	**95.6**	30	-	120	
175	Lu	3	3443638	0.74	3584000	**96.1**	30	-	120	
209	Bi	3	7168894	0.78	7619000	**94.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\068SMPL.D\068SMPL.D#
Date Acquired: May 27 2010 08:17 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.011**	ug/l	0.01	2.9	450	6	P	
23	**Na**	2	**-0.966**	ug/l	-0.97	160.7	450000	45	P	
24	**Mg**	2	**1.750**	ug/l	1.75	18.2	450000	45	P	
27	**Al**	2	**0.543**	ug/l	0.54	25.0	450000	45	P	
31	**P**	2	**-8.556**	ug/l	-8.56	38.5	450000	45	P	
39	**K**	2	**15.460**	ug/l	15.46	19.2	450000	45	P	
44	**Ca**	2	**2.268**	ug/l	2.27	111.4	450000	45	P	
47	**Ti**	2	**0.050**	ug/l	0.05	36.3	4500	45	P	
51	**V**	2	**-0.107**	ug/l	-0.11	62.8	4500	45	P	
52	**Cr**	2	**0.000**	ug/l	0.00	3447.3	4500	45	P	
54	**Fe**	2	**1.871**	ug/l	1.87	11.4	450000	74	P	
55	**Mn**	2	**0.053**	ug/l	0.05	28.3	15000	45	P	
59	**Co**	2	**0.019**	ug/l	0.02	17.4	4500	45	P	
60	**Ni**	2	**0.054**	ug/l	0.05	78.3	15000	45	P	
63	**Cu**	2	**0.033**	ug/l	0.03	57.1	15000	45	P	
66	**Zn**	2	**0.114**	ug/l	0.11	86.9	15000	45	P	
75	**As**	2	**-0.030**	ug/l	-0.03	71.0	4500	74	P	
78	**Se**	2	**-0.283**	ug/l	-0.28	84.7	4500	74	P	
88	**Sr**	3	**0.009**	ug/l	0.01	43.7	4500	74	P	
95	**Mo**	3	**0.001**	ug/l	0.00	740.9	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.00	64.5	450	103	P	
111	**Cd**	3	**0.003**	ug/l	0.00	277.8	900	103	P	
118	**Sn**	3	**0.064**	ug/l	0.06	9.7	4500	103	P	
121	**Sb**	3	**0.048**	ug/l	0.05	13.7	4500	103	P	
135	**Ba**	3	**0.027**	ug/l	0.03	25.7	4500	103	P	
200	**Hg**	3	**0.601**	ug/l	0.60	2.5	45	209	P	
205	**Tl**	3	**0.592**	ug/l	0.59	4.0	4500	209	P	
208	**Pb**	3	**0.007**	ug/l	0.01	25.9	4500	209	P	
238	**U**	3	**0.005**	ug/l	0.00	22.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4194188	2.59	5119000	**81.9**	30	-	120	
45	Sc	1	225712	1.77	341400	**66.1**	30	-	120	
45	Sc	2	254414	1.54	273900	**92.9**	30	-	120	
74	Ge	1	194025	2.24	283600	**68.4**	30	-	120	
74	Ge	2	405307	0.73	422600	**95.9**	30	-	120	
74	Ge	3	1560068	0.76	1674000	**93.2**	30	-	120	
103	Rh	2	778074	1.04	814900	**95.5**	30	-	120	
103	Rh	3	1459041	1.08	1535000	**95.1**	30	-	120	
165	Ho	3	3074450	0.46	3236000	**95.0**	30	-	120	
175	Lu	3	3418697	2.00	3584000	**95.4**	30	-	120	
209	Bi	3	7286976	0.21	7619000	**95.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\069SMPL.D\069SMPL.D#
Date Acquired: May 27 2010 08:24 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-19-B Vial Number: 2501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.007**	ug/l	0.07	8.3	450	6	P	
23	**Na**	2	**27.870**	ug/l	278.70	3.9	450000	45	P	
24	**Mg**	2	**428400.000**	ug/l	4,284,000.00	1.0	450000	45	A	
27	**Al**	2	**2487.000**	ug/l	24,870.00	1.2	450000	45	P	
31	**P**	2	**3.817**	ug/l	38.17	200.3	450000	45	P	
39	**K**	2	**15.890**	ug/l	158.90	19.4	450000	45	P	
44	**Ca**	2	**2983.000**	ug/l	29,830.00	0.8	450000	45	P	
47	**Ti**	2	**11.650**	ug/l	116.50	0.7	4500	45	P	
51	**V**	2	**38.030**	ug/l	380.30	1.7	4500	45	P	
52	**Cr**	2	**2425.000**	ug/l	24,250.00	0.7	4500	45	A	
54	**Fe**	2	**106900.000**	ug/l	1,069,000.00	1.5	450000	74	A	
55	**Mn**	2	**1537.000**	ug/l	15,370.00	1.4	15000	45	A	
59	**Co**	2	**256.700**	ug/l	2,567.00	0.9	4500	45	P	
60	**Ni**	2	**4865.000**	ug/l	48,650.00	0.7	15000	45	A	
63	**Cu**	2	**28.970**	ug/l	289.70	1.7	15000	45	P	
66	**Zn**	2	**43.450**	ug/l	434.50	0.2	15000	45	P	
75	**As**	2	**0.092**	ug/l	0.92	39.8	4500	74	P	
78	**Se**	2	**0.319**	ug/l	3.19	254.2	4500	74	P	
88	**Sr**	3	**1.026**	ug/l	10.26	0.6	4500	74	P	
95	**Mo**	3	**0.033**	ug/l	0.33	44.3	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.03	94.6	450	103	P	
111	**Cd**	3	**0.024**	ug/l	0.24	107.4	900	103	P	
118	**Sn**	3	**0.059**	ug/l	0.59	25.4	4500	103	P	
121	**Sb**	3	**0.035**	ug/l	0.35	15.3	4500	103	P	
135	**Ba**	3	**0.794**	ug/l	7.94	6.9	4500	103	P	
200	**Hg**	3	**0.997**	ug/l	9.97	1.4	45	209	P	
205	**Tl**	3	**0.321**	ug/l	3.21	4.2	4500	209	P	
208	**Pb**	3	**0.037**	ug/l	0.37	11.2	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.01	210.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3565937	1.55	5119000	**69.7**	30	-	120	
45	Sc	1	252852	1.81	341400	**74.1**	30	-	120	
45	Sc	2	256305	0.80	273900	**93.6**	30	-	120	
74	Ge	1	186478	1.18	283600	**65.8**	30	-	120	
74	Ge	2	357333	0.82	422600	**84.6**	30	-	120	
74	Ge	3	1416414	0.96	1674000	**84.6**	30	-	120	
103	Rh	2	649844	1.43	814900	**79.7**	30	-	120	
103	Rh	3	1278222	0.80	1535000	**83.3**	30	-	120	
165	Ho	3	2886247	1.08	3236000	**89.2**	30	-	120	
175	Lu	3	3245935	0.61	3584000	**90.6**	30	-	120	
209	Bi	3	6296255	0.83	7619000	**82.6**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\070SMPL.D\070SMPL.D#
Date Acquired: May 27 2010 08:32 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-20-B Vial Number: 2502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.05	32.5	450	6	P	
23	**Na**	2	**44.130**	ug/l	441.30	4.6	450000	45	P	
24	**Mg**	2	**431400.000**	ug/l	4,314,000.00	1.3	450000	45	A	
27	**Al**	2	**2744.000**	ug/l	27,440.00	0.4	450000	45	P	
31	**P**	2	**-0.197**	ug/l	-1.97	4716.0	450000	45	P	
39	**K**	2	**12.840**	ug/l	128.40	11.9	450000	45	P	
44	**Ca**	2	**5000.000**	ug/l	50,000.00	0.4	450000	45	P	
47	**Ti**	2	**9.456**	ug/l	94.56	1.5	4500	45	P	
51	**V**	2	**33.820**	ug/l	338.20	0.8	4500	45	P	
52	**Cr**	2	**1314.000**	ug/l	13,140.00	1.2	4500	45	A	
54	**Fe**	2	**105400.000**	ug/l	1,054,000.00	0.4	450000	74	A	
55	**Mn**	2	**1615.000**	ug/l	16,150.00	1.0	15000	45	A	
59	**Co**	2	**191.200**	ug/l	1,912.00	0.5	4500	45	P	
60	**Ni**	2	**3828.000**	ug/l	38,280.00	1.3	15000	45	A	
63	**Cu**	2	**9.323**	ug/l	93.23	0.5	15000	45	P	
66	**Zn**	2	**52.000**	ug/l	520.00	1.1	15000	45	P	
75	**As**	2	**-0.039**	ug/l	-0.39	79.9	4500	74	P	
78	**Se**	2	**-0.042**	ug/l	-0.42	1600.2	4500	74	P	
88	**Sr**	3	**1.947**	ug/l	19.47	3.5	4500	74	P	
95	**Mo**	3	**0.066**	ug/l	0.66	33.3	4500	74	P	
107	**Ag**	3	**-0.002**	ug/l	-0.02	128.0	450	103	P	
111	**Cd**	3	**0.009**	ug/l	0.09	327.1	900	103	P	
118	**Sn**	3	**0.048**	ug/l	0.48	18.6	4500	103	P	
121	**Sb**	3	**0.025**	ug/l	0.25	18.7	4500	103	P	
135	**Ba**	3	**0.833**	ug/l	8.33	13.6	4500	103	P	
200	**Hg**	3	**0.847**	ug/l	8.47	2.1	45	209	P	
205	**Tl**	3	**0.203**	ug/l	2.03	8.4	4500	209	P	
208	**Pb**	3	**0.032**	ug/l	0.32	5.5	4500	209	P	
238	**U**	3	**0.000**	ug/l	0.00	169.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3483174	1.72	5119000	**68.0**	30	-	120	
45	Sc	1	236078	2.10	341400	**69.2**	30	-	120	
45	Sc	2	250296	1.46	273900	**91.4**	30	-	120	
74	Ge	1	177787	0.92	283600	**62.7**	30	-	120	
74	Ge	2	356226	0.82	422600	**84.3**	30	-	120	
74	Ge	3	1429118	1.25	1674000	**85.4**	30	-	120	
103	Rh	2	653017	0.94	814900	**80.1**	30	-	120	
103	Rh	3	1295630	1.63	1535000	**84.4**	30	-	120	
165	Ho	3	2902358	0.61	3236000	**89.7**	30	-	120	
175	Lu	3	3251777	0.36	3584000	**90.7**	30	-	120	
209	Bi	3	6237080	0.30	7619000	**81.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\071SMPL.D\071SMPL.D#
Date Acquired: May 27 2010 08:39 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-21-B Vial Number: 2503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.986**	ug/l	9.86	2.7	450	6	P	
23	**Na**	2	**85.450**	ug/l	854.50	4.0	450000	45	P	
24	**Mg**	2	**30540.000**	ug/l	305,400.00	0.5	450000	45	A	
27	**Al**	2	**25480.000**	ug/l	254,800.00	0.3	450000	45	A	
31	**P**	2	**567.000**	ug/l	5,670.00	1.6	450000	45	P	
39	**K**	2	**2858.000**	ug/l	28,580.00	0.5	450000	45	A	
44	**Ca**	2	**5743.000**	ug/l	57,430.00	1.1	450000	45	P	
47	**Ti**	2	**778.200**	ug/l	7,782.00	0.8	4500	45	P	
51	**V**	2	**80.040**	ug/l	800.40	0.4	4500	45	P	
52	**Cr**	2	**271.200**	ug/l	2,712.00	1.1	4500	45	P	
54	**Fe**	2	**54430.000**	ug/l	544,300.00	1.1	450000	74	A	
55	**Mn**	2	**597.800**	ug/l	5,978.00	1.6	15000	45	A	
59	**Co**	2	**43.590**	ug/l	435.90	1.2	4500	45	P	
60	**Ni**	2	**474.500**	ug/l	4,745.00	0.4	15000	45	P	
63	**Cu**	2	**52.510**	ug/l	525.10	0.1	15000	45	P	
66	**Zn**	2	**96.080**	ug/l	960.80	0.6	15000	45	P	
75	**As**	2	**12.120**	ug/l	121.20	3.5	4500	74	P	
78	**Se**	2	**0.960**	ug/l	9.60	73.7	4500	74	P	
88	**Sr**	3	**53.730**	ug/l	537.30	0.3	4500	74	P	
95	**Mo**	3	**0.863**	ug/l	8.63	4.1	4500	74	P	
107	**Ag**	3	**0.105**	ug/l	1.05	14.4	450	103	P	
111	**Cd**	3	**0.264**	ug/l	2.64	14.4	900	103	P	
118	**Sn**	3	**1.080**	ug/l	10.80	2.1	4500	103	P	
121	**Sb**	3	**0.969**	ug/l	9.69	3.6	4500	103	P	
135	**Ba**	3	**390.000**	ug/l	3,900.00	1.5	4500	103	P	
200	**Hg**	3	**111.600**	ug/l	1,116.00	1.3	45	209	P	Fail
205	**Tl**	3	**0.311**	ug/l	3.11	0.7	4500	209	P	
208	**Pb**	3	**15.000**	ug/l	150.00	0.3	4500	209	P	
238	**U**	3	**0.536**	ug/l	5.36	2.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4095366	0.16	5119000	**80.0**	30	-	120	
45	Sc	1	223965	1.67	341400	**65.6**	30	-	120	
45	Sc	2	275611	0.52	273900	**100.6**	30	-	120	
74	Ge	1	178656	1.78	283600	**63.0**	30	-	120	
74	Ge	2	408311	0.75	422600	**96.6**	30	-	120	
74	Ge	3	1643744	0.33	1674000	**98.2**	30	-	120	
103	Rh	2	755614	0.34	814900	**92.7**	30	-	120	
103	Rh	3	1494573	0.82	1535000	**97.4**	30	-	120	
165	Ho	3	3174587	0.54	3236000	**98.1**	30	-	120	
175	Lu	3	3533715	0.65	3584000	**98.6**	30	-	120	
209	Bi	3	7048091	0.64	7619000	**92.5**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\072SMPL.D\072SMPL.D#
Date Acquired: May 27 2010 08:46 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-1-B Vial Number: 2504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.079**	ug/l	0.79	8.5	450	6	P	
23	**Na**	2	**11.290**	ug/l	112.90	1.3	450000	45	P	
24	**Mg**	2	**345500.000**	ug/l	3,455,000.00	2.2	450000	45	A	
27	**Al**	2	**4035.000**	ug/l	40,350.00	2.0	450000	45	P	
31	**P**	2	**254.100**	ug/l	2,541.00	5.1	450000	45	P	
39	**K**	2	**443.700**	ug/l	4,437.00	1.8	450000	45	P	
44	**Ca**	2	**961.700**	ug/l	9,617.00	2.8	450000	45	P	
47	**Ti**	2	**50.820**	ug/l	508.20	4.2	4500	45	P	
51	**V**	2	**22.090**	ug/l	220.90	0.7	4500	45	P	
52	**Cr**	2	**681.400**	ug/l	6,814.00	1.3	4500	45	A	
54	**Fe**	2	**81610.000**	ug/l	816,100.00	0.6	450000	74	A	
55	**Mn**	2	**1333.000**	ug/l	13,330.00	1.2	15000	45	A	
59	**Co**	2	**186.800**	ug/l	1,868.00	1.1	4500	45	P	
60	**Ni**	2	**3491.000**	ug/l	34,910.00	1.6	15000	45	A	
63	**Cu**	2	**8.258**	ug/l	82.58	1.5	15000	45	P	
66	**Zn**	2	**47.950**	ug/l	479.50	2.7	15000	45	P	
75	**As**	2	**1.215**	ug/l	12.15	6.6	4500	74	P	
78	**Se**	2	**0.269**	ug/l	2.69	189.2	4500	74	P	
88	**Sr**	3	**7.162**	ug/l	71.62	1.6	4500	74	P	
95	**Mo**	3	**0.463**	ug/l	4.63	18.7	4500	74	P	
107	**Ag**	3	**0.013**	ug/l	0.13	34.8	450	103	P	
111	**Cd**	3	**0.034**	ug/l	0.34	32.8	900	103	P	
118	**Sn**	3	**0.148**	ug/l	1.48	10.7	4500	103	P	
121	**Sb**	3	**0.150**	ug/l	1.50	13.3	4500	103	P	
135	**Ba**	3	**81.400**	ug/l	814.00	1.5	4500	103	P	
200	**Hg**	3	**10.220**	ug/l	102.20	0.2	45	209	P	
205	**Tl**	3	**0.161**	ug/l	1.61	5.5	4500	209	P	
208	**Pb**	3	**6.571**	ug/l	65.71	0.2	4500	209	P	
238	**U**	3	**0.034**	ug/l	0.34	6.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3788739	1.45	5119000	**74.0**	30	-	120	
45	Sc	1	220358	0.87	341400	**64.5**	30	-	120	
45	Sc	2	256167	0.77	273900	**93.5**	30	-	120	
74	Ge	1	169315	0.75	283600	**59.7**	30	-	120	
74	Ge	2	372593	0.57	422600	**88.2**	30	-	120	
74	Ge	3	1511107	0.40	1674000	**90.3**	30	-	120	
103	Rh	2	680588	0.19	814900	**83.5**	30	-	120	
103	Rh	3	1335760	0.54	1535000	**87.0**	30	-	120	
165	Ho	3	2982637	0.35	3236000	**92.2**	30	-	120	
175	Lu	3	3319960	0.74	3584000	**92.6**	30	-	120	
209	Bi	3	6397661	0.38	7619000	**84.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\073SMPL.D\073SMPL.D#
Date Acquired: May 27 2010 08:53 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-2-B Vial Number: 2505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.914**	ug/l	9.14	2.3	450	6	P	
23	**Na**	2	**267.100**	ug/l	2,671.00	10.6	450000	45	P	
24	**Mg**	2	**25570.000**	ug/l	255,700.00	1.9	450000	45	A	
27	**Al**	2	**23630.000**	ug/l	236,300.00	2.4	450000	45	A	
31	**P**	2	**2037.000**	ug/l	20,370.00	0.9	450000	45	P	
39	**K**	2	**5118.000**	ug/l	51,180.00	0.9	450000	45	A	
44	**Ca**	2	**18770.000**	ug/l	187,700.00	1.1	450000	45	P	
47	**Ti**	2	**1584.000**	ug/l	15,840.00	1.1	4500	45	P	
51	**V**	2	**258.300**	ug/l	2,583.00	2.0	4500	45	P	
52	**Cr**	2	**177.100**	ug/l	1,771.00	2.0	4500	45	P	
54	**Fe**	2	**104600.000**	ug/l	1,046,000.00	1.6	450000	74	A	
55	**Mn**	2	**13220.000**	ug/l	132,200.00	1.1	15000	45	A	
59	**Co**	2	**53.780**	ug/l	537.80	2.1	4500	45	P	
60	**Ni**	2	**575.400**	ug/l	5,754.00	1.6	15000	45	P	
63	**Cu**	2	**316.400**	ug/l	3,164.00	1.1	15000	45	P	
66	**Zn**	2	**364.000**	ug/l	3,640.00	1.6	15000	45	P	
75	**As**	2	**28.940**	ug/l	289.40	1.6	4500	74	P	
78	**Se**	2	**1.948**	ug/l	19.48	16.1	4500	74	P	
88	**Sr**	3	**123.100**	ug/l	1,231.00	3.0	4500	74	A	
95	**Mo**	3	**3.251**	ug/l	32.51	3.6	4500	74	P	
107	**Ag**	3	**0.325**	ug/l	3.25	7.7	450	103	P	
111	**Cd**	3	**0.653**	ug/l	6.53	6.3	900	103	P	
118	**Sn**	3	**1.241**	ug/l	12.41	1.5	4500	103	P	
121	**Sb**	3	**1.908**	ug/l	19.08	0.9	4500	103	P	
135	**Ba**	3	**3193.000**	ug/l	31,930.00	0.9	4500	103	A	
200	**Hg**	3	**58.070**	ug/l	580.70	1.1	45	209	P	Fail
205	**Tl**	3	**0.333**	ug/l	3.33	2.7	4500	209	P	
208	**Pb**	3	**69.010**	ug/l	690.10	0.6	4500	209	P	
238	**U**	3	**0.832**	ug/l	8.32	1.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4250922	1.68	5119000	**83.0**	30	-	120	
45	Sc	1	224105	1.12	341400	**65.6**	30	-	120	
45	Sc	2	281465	2.27	273900	**102.8**	30	-	120	
74	Ge	1	175218	1.70	283600	**61.8**	30	-	120	
74	Ge	2	412156	1.58	422600	**97.5**	30	-	120	
74	Ge	3	1665759	1.73	1674000	**99.5**	30	-	120	
103	Rh	2	757098	2.07	814900	**92.9**	30	-	120	
103	Rh	3	1502519	0.64	1535000	**97.9**	30	-	120	
165	Ho	3	3224730	0.57	3236000	**99.7**	30	-	120	
175	Lu	3	3576830	1.06	3584000	**99.8**	30	-	120	
209	Bi	3	7157057	1.40	7619000	**93.9**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\074SMPL.D\074SMPL.D#
Date Acquired: May 27 2010 09:00 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-3-B Vial Number: 2506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.114**	ug/l	11.14	5.0	450	6	P	
23	**Na**	2	**67.820**	ug/l	678.20	3.2	450000	45	P	
24	**Mg**	2	**25830.000**	ug/l	258,300.00	1.6	450000	45	A	
27	**Al**	2	**18880.000**	ug/l	188,800.00	1.3	450000	45	A	
31	**P**	2	**1043.000**	ug/l	10,430.00	0.6	450000	45	P	
39	**K**	2	**2701.000**	ug/l	27,010.00	2.5	450000	45	A	
44	**Ca**	2	**5104.000**	ug/l	51,040.00	1.6	450000	45	P	
47	**Ti**	2	**535.600**	ug/l	5,356.00	2.3	4500	45	P	
51	**V**	2	**103.800**	ug/l	1,038.00	0.8	4500	45	P	
52	**Cr**	2	**267.700**	ug/l	2,677.00	0.7	4500	45	P	
54	**Fe**	2	**90630.000**	ug/l	906,300.00	1.5	450000	74	A	
55	**Mn**	2	**2600.000**	ug/l	26,000.00	0.9	15000	45	A	
59	**Co**	2	**91.270**	ug/l	912.70	0.7	4500	45	P	
60	**Ni**	2	**1327.000**	ug/l	13,270.00	0.9	15000	45	A	
63	**Cu**	2	**104.300**	ug/l	1,043.00	1.0	15000	45	P	
66	**Zn**	2	**184.800**	ug/l	1,848.00	1.0	15000	45	P	
75	**As**	2	**18.320**	ug/l	183.20	0.8	4500	74	P	
78	**Se**	2	**1.453**	ug/l	14.53	74.0	4500	74	P	
88	**Sr**	3	**39.020**	ug/l	390.20	2.2	4500	74	P	
95	**Mo**	3	**1.727**	ug/l	17.27	4.5	4500	74	P	
107	**Ag**	3	**0.156**	ug/l	1.56	14.0	450	103	P	
111	**Cd**	3	**0.419**	ug/l	4.19	7.5	900	103	P	
118	**Sn**	3	**2.557**	ug/l	25.57	1.5	4500	103	P	
121	**Sb**	3	**2.421**	ug/l	24.21	1.8	4500	103	P	
135	**Ba**	3	**588.000**	ug/l	5,880.00	1.9	4500	103	P	
200	**Hg**	3	**113.300**	ug/l	1,133.00	0.4	45	209	P	Fail
205	**Tl**	3	**0.255**	ug/l	2.55	8.2	4500	209	P	
208	**Pb**	3	**54.710**	ug/l	547.10	0.3	4500	209	P	
238	**U**	3	**0.621**	ug/l	6.21	0.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4095650	1.60	5119000	**80.0**	30	-	120	
45	Sc	1	225348	1.13	341400	**66.0**	30	-	120	
45	Sc	2	279800	1.29	273900	**102.2**	30	-	120	
74	Ge	1	176203	1.47	283600	**62.1**	30	-	120	
74	Ge	2	404874	0.98	422600	**95.8**	30	-	120	
74	Ge	3	1605595	2.37	1674000	**95.9**	30	-	120	
103	Rh	2	751574	1.64	814900	**92.2**	30	-	120	
103	Rh	3	1457500	1.26	1535000	**95.0**	30	-	120	
165	Ho	3	3164280	0.51	3236000	**97.8**	30	-	120	
175	Lu	3	3521531	0.89	3584000	**98.3**	30	-	120	
209	Bi	3	7017541	0.33	7619000	**92.1**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\075SMPL.D\075SMPL.D#
Date Acquired: May 27 2010 09:07 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-4-B Vial Number: 2507
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.138**	ug/l	11.38	3.2	450	6	P	
23	**Na**	2	**82.090**	ug/l	820.90	5.0	450000	45	P	
24	**Mg**	2	**14470.000**	ug/l	144,700.00	1.6	450000	45	A	
27	**Al**	2	**26590.000**	ug/l	265,900.00	1.8	450000	45	A	
31	**P**	2	**848.900**	ug/l	8,489.00	1.4	450000	45	P	
39	**K**	2	**3653.000**	ug/l	36,530.00	1.0	450000	45	A	
44	**Ca**	2	**5958.000**	ug/l	59,580.00	1.3	450000	45	P	
47	**Ti**	2	**1847.000**	ug/l	18,470.00	1.0	4500	45	P	
51	**V**	2	**80.580**	ug/l	805.80	1.6	4500	45	P	
52	**Cr**	2	**92.310**	ug/l	923.10	1.2	4500	45	P	
54	**Fe**	2	**57090.000**	ug/l	570,900.00	1.0	450000	74	A	
55	**Mn**	2	**884.800**	ug/l	8,848.00	1.6	15000	45	A	
59	**Co**	2	**25.450**	ug/l	254.50	1.4	4500	45	P	
60	**Ni**	2	**126.700**	ug/l	1,267.00	0.6	15000	45	P	
63	**Cu**	2	**55.310**	ug/l	553.10	1.7	15000	45	P	
66	**Zn**	2	**125.000**	ug/l	1,250.00	0.7	15000	45	P	
75	**As**	2	**15.070**	ug/l	150.70	2.3	4500	74	P	
78	**Se**	2	**0.103**	ug/l	1.03	469.5	4500	74	P	
88	**Sr**	3	**33.920**	ug/l	339.20	1.0	4500	74	P	
95	**Mo**	3	**1.014**	ug/l	10.14	4.0	4500	74	P	
107	**Ag**	3	**0.072**	ug/l	0.72	8.7	450	103	P	
111	**Cd**	3	**0.371**	ug/l	3.71	9.1	900	103	P	
118	**Sn**	3	**1.094**	ug/l	10.94	6.7	4500	103	P	
121	**Sb**	3	**1.070**	ug/l	10.70	5.0	4500	103	P	
135	**Ba**	3	**387.100**	ug/l	3,871.00	0.8	4500	103	P	
200	**Hg**	3	**13.540**	ug/l	135.40	0.6	45	209	P	
205	**Tl**	3	**0.204**	ug/l	2.04	8.3	4500	209	P	
208	**Pb**	3	**20.360**	ug/l	203.60	1.6	4500	209	P	
238	**U**	3	**1.032**	ug/l	10.32	1.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4327316	1.15	5119000	**84.5**	30	-	120	
45	Sc	1	215065	2.05	341400	**63.0**	30	-	120	
45	Sc	2	272883	0.63	273900	**99.6**	30	-	120	
74	Ge	1	169761	1.39	283600	**59.9**	30	-	120	
74	Ge	2	407306	0.75	422600	**96.4**	30	-	120	
74	Ge	3	1609662	0.68	1674000	**96.2**	30	-	120	
103	Rh	2	756408	1.16	814900	**92.8**	30	-	120	
103	Rh	3	1475918	0.40	1535000	**96.2**	30	-	120	
165	Ho	3	3183463	0.68	3236000	**98.4**	30	-	120	
175	Lu	3	3507569	0.32	3584000	**97.9**	30	-	120	
209	Bi	3	7062355	0.52	7619000	**92.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\076SMPL.D\076SMPL.D#
Date Acquired: May 27 2010 09:14 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-5-B Vial Number: 2508
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.644**	ug/l	6.44	2.6	450	6	P	
23	**Na**	2	**134.100**	ug/l	1,341.00	4.2	450000	45	P	
24	**Mg**	2	**210500.000**	ug/l	2,105,000.00	2.1	450000	45	A	
27	**Al**	2	**20510.000**	ug/l	205,100.00	0.9	450000	45	A	
31	**P**	2	**726.000**	ug/l	7,260.00	2.4	450000	45	P	
39	**K**	2	**2164.000**	ug/l	21,640.00	1.7	450000	45	A	
44	**Ca**	2	**8573.000**	ug/l	85,730.00	0.5	450000	45	P	
47	**Ti**	2	**221.500**	ug/l	2,215.00	0.8	4500	45	P	
51	**V**	2	**70.830**	ug/l	708.30	0.6	4500	45	P	
52	**Cr**	2	**562.900**	ug/l	5,629.00	0.7	4500	45	A	
54	**Fe**	2	**117100.000**	ug/l	1,171,000.00	1.3	450000	74	A	
55	**Mn**	2	**1550.000**	ug/l	15,500.00	1.4	15000	45	A	
59	**Co**	2	**148.300**	ug/l	1,483.00	0.4	4500	45	P	
60	**Ni**	2	**2709.000**	ug/l	27,090.00	1.7	15000	45	A	
63	**Cu**	2	**51.810**	ug/l	518.10	1.1	15000	45	P	
66	**Zn**	2	**112.700**	ug/l	1,127.00	0.4	15000	45	P	
75	**As**	2	**12.050**	ug/l	120.50	1.1	4500	74	P	
78	**Se**	2	**0.335**	ug/l	3.35	45.7	4500	74	P	
88	**Sr**	3	**38.080**	ug/l	380.80	0.6	4500	74	P	
95	**Mo**	3	**1.119**	ug/l	11.19	8.8	4500	74	P	
107	**Ag**	3	**0.082**	ug/l	0.82	6.8	450	103	P	
111	**Cd**	3	**0.308**	ug/l	3.08	1.5	900	103	P	
118	**Sn**	3	**1.607**	ug/l	16.07	2.2	4500	103	P	
121	**Sb**	3	**1.042**	ug/l	10.42	1.5	4500	103	P	
135	**Ba**	3	**402.800**	ug/l	4,028.00	1.1	4500	103	P	
200	**Hg**	3	**1964.000**	ug/l	19,640.00	1.8	45	209	A	Fail
205	**Tl**	3	**0.249**	ug/l	2.49	6.1	4500	209	P	
208	**Pb**	3	**31.180**	ug/l	311.80	1.1	4500	209	P	
238	**U**	3	**0.297**	ug/l	2.97	4.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3838851	0.54	5119000	**75.0**	30	-	120	
45	Sc	1	209690	1.27	341400	**61.4**	30	-	120	
45	Sc	2	263282	1.00	273900	**96.1**	30	-	120	
74	Ge	1	160623	1.73	283600	**56.6**	30	-	120	
74	Ge	2	380163	1.12	422600	**90.0**	30	-	120	
74	Ge	3	1490626	0.37	1674000	**89.0**	30	-	120	
103	Rh	2	691570	0.68	814900	**84.9**	30	-	120	
103	Rh	3	1337016	0.57	1535000	**87.1**	30	-	120	
165	Ho	3	2993741	1.15	3236000	**92.5**	30	-	120	
175	Lu	3	3325598	0.50	3584000	**92.8**	30	-	120	
209	Bi	3	6444764	0.98	7619000	**84.6**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\077SMPL.D\077SMPL.D#
Date Acquired: May 27 2010 09:21 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-6-B Vial Number: 2509
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.899**	ug/l	8.99	1.7	450	6	P	
23	**Na**	2	**44.490**	ug/l	444.90	1.8	450000	45	P	
24	**Mg**	2	**239800.000**	ug/l	2,398,000.00	0.7	450000	45	A	
27	**Al**	2	**29530.000**	ug/l	295,300.00	1.0	450000	45	A	
31	**P**	2	**324.500**	ug/l	3,245.00	6.9	450000	45	P	
39	**K**	2	**1138.000**	ug/l	11,380.00	1.1	450000	45	P	
44	**Ca**	2	**2976.000**	ug/l	29,760.00	1.2	450000	45	P	
47	**Ti**	2	**143.500**	ug/l	1,435.00	5.7	4500	45	P	
51	**V**	2	**89.440**	ug/l	894.40	0.6	4500	45	P	
52	**Cr**	2	**1233.000**	ug/l	12,330.00	1.3	4500	45	A	
54	**Fe**	2	**171800.000**	ug/l	1,718,000.00	1.5	450000	74	A	
55	**Mn**	2	**1654.000**	ug/l	16,540.00	0.2	15000	45	A	
59	**Co**	2	**285.300**	ug/l	2,853.00	0.8	4500	45	P	
60	**Ni**	2	**5020.000**	ug/l	50,200.00	0.4	15000	45	A	
63	**Cu**	2	**36.280**	ug/l	362.80	1.3	15000	45	P	
66	**Zn**	2	**110.700**	ug/l	1,107.00	0.8	15000	45	P	
75	**As**	2	**9.962**	ug/l	99.62	1.2	4500	74	P	
78	**Se**	2	**0.716**	ug/l	7.16	115.4	4500	74	P	
88	**Sr**	3	**32.080**	ug/l	320.80	0.2	4500	74	P	
95	**Mo**	3	**0.338**	ug/l	3.38	6.2	4500	74	P	
107	**Ag**	3	**0.102**	ug/l	1.02	2.9	450	103	P	
111	**Cd**	3	**0.272**	ug/l	2.72	6.5	900	103	P	
118	**Sn**	3	**0.841**	ug/l	8.41	2.9	4500	103	P	
121	**Sb**	3	**0.503**	ug/l	5.03	6.3	4500	103	P	
135	**Ba**	3	**307.300**	ug/l	3,073.00	1.1	4500	103	P	
200	**Hg**	3	**146.600**	ug/l	1,466.00	0.5	45	209	P	Fail
205	**Tl**	3	**0.217**	ug/l	2.17	5.1	4500	209	P	
208	**Pb**	3	**15.000**	ug/l	150.00	0.0	4500	209	P	
238	**U**	3	**0.395**	ug/l	3.95	3.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3577140	1.74	5119000	**69.9**	30	-	120	
45	Sc	1	215106	0.39	341400	**63.0**	30	-	120	
45	Sc	2	266751	0.29	273900	**97.4**	30	-	120	
74	Ge	1	153329	1.02	283600	**54.1**	30	-	120	
74	Ge	2	366646	1.19	422600	**86.8**	30	-	120	
74	Ge	3	1510257	0.59	1674000	**90.2**	30	-	120	
103	Rh	2	676929	1.11	814900	**83.1**	30	-	120	
103	Rh	3	1332144	2.38	1535000	**86.8**	30	-	120	
165	Ho	3	3022583	0.23	3236000	**93.4**	30	-	120	
175	Lu	3	3380510	0.82	3584000	**94.3**	30	-	120	
209	Bi	3	6479245	1.24	7619000	**85.0**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\078SMPL.D\078SMPL.D#
Date Acquired: May 27 2010 09:28 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-7-B Vial Number: 2510
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.155**	ug/l	11.55	4.6	450	6	P	
23	**Na**	2	**75.120**	ug/l	751.20	3.2	450000	45	P	
24	**Mg**	2	**173900.000**	ug/l	1,739,000.00	1.4	450000	45	A	
27	**Al**	2	**29010.000**	ug/l	290,100.00	1.5	450000	45	A	
31	**P**	2	**663.000**	ug/l	6,630.00	1.6	450000	45	P	
39	**K**	2	**2205.000**	ug/l	22,050.00	1.2	450000	45	P	
44	**Ca**	2	**2925.000**	ug/l	29,250.00	0.8	450000	45	P	
47	**Ti**	2	**106.700**	ug/l	1,067.00	5.0	4500	45	P	
51	**V**	2	**93.340**	ug/l	933.40	1.2	4500	45	P	
52	**Cr**	2	**654.700**	ug/l	6,547.00	1.6	4500	45	A	
54	**Fe**	2	**112700.000**	ug/l	1,127,000.00	1.6	450000	74	A	
55	**Mn**	2	**1973.000**	ug/l	19,730.00	0.7	15000	45	A	
59	**Co**	2	**154.300**	ug/l	1,543.00	1.1	4500	45	P	
60	**Ni**	2	**2596.000**	ug/l	25,960.00	0.7	15000	45	A	
63	**Cu**	2	**73.270**	ug/l	732.70	0.6	15000	45	P	
66	**Zn**	2	**164.500**	ug/l	1,645.00	1.9	15000	45	P	
75	**As**	2	**14.430**	ug/l	144.30	4.0	4500	74	P	
78	**Se**	2	**1.205**	ug/l	12.05	75.9	4500	74	P	
88	**Sr**	3	**19.790**	ug/l	197.90	1.0	4500	74	P	
95	**Mo**	3	**0.971**	ug/l	9.71	9.6	4500	74	P	
107	**Ag**	3	**0.131**	ug/l	1.31	3.5	450	103	P	
111	**Cd**	3	**0.328**	ug/l	3.28	8.5	900	103	P	
118	**Sn**	3	**1.017**	ug/l	10.17	8.8	4500	103	P	
121	**Sb**	3	**1.082**	ug/l	10.82	2.5	4500	103	P	
135	**Ba**	3	**573.100**	ug/l	5,731.00	1.2	4500	103	P	
200	**Hg**	3	**111.800**	ug/l	1,118.00	1.6	45	209	P	Fail
205	**Tl**	3	**0.225**	ug/l	2.25	8.9	4500	209	P	
208	**Pb**	3	**46.970**	ug/l	469.70	1.3	4500	209	P	
238	**U**	3	**0.358**	ug/l	3.58	4.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3667494	0.61	5119000	**71.6**	30	-	120	
45	Sc	1	197045	0.86	341400	**57.7**	30	-	120	
45	Sc	2	263694	1.40	273900	**96.3**	30	-	120	
74	Ge	1	147769	0.75	283600	**52.1**	30	-	120	
74	Ge	2	375097	1.00	422600	**88.8**	30	-	120	
74	Ge	3	1516180	1.64	1674000	**90.6**	30	-	120	
103	Rh	2	689196	1.08	814900	**84.6**	30	-	120	
103	Rh	3	1356274	1.13	1535000	**88.4**	30	-	120	
165	Ho	3	3047825	0.68	3236000	**94.2**	30	-	120	
175	Lu	3	3358047	1.39	3584000	**93.7**	30	-	120	
209	Bi	3	6506353	0.82	7619000	**85.4**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\079SMPL.D\079SMPL.D#
Date Acquired: May 27 2010 09:35 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**53.040**	ug/l	53.04	1.2	450	6	P	
23	**Na**	2	**5002.000**	ug/l	5,002.00	2.4	450000	45	A	
24	**Mg**	2	**5137.000**	ug/l	5,137.00	2.2	450000	45	A	
27	**Al**	2	**513.200**	ug/l	513.20	1.6	450000	45	P	
31	**P**	2	**5031.000**	ug/l	5,031.00	2.4	450000	45	P	
39	**K**	2	**5356.000**	ug/l	5,356.00	1.2	450000	45	A	
44	**Ca**	2	**5214.000**	ug/l	5,214.00	1.7	450000	45	P	
47	**Ti**	2	**52.810**	ug/l	52.81	2.4	4500	45	P	
51	**V**	2	**52.480**	ug/l	52.48	2.8	4500	45	P	
52	**Cr**	2	**53.480**	ug/l	53.48	2.4	4500	45	P	
54	**Fe**	2	**5205.000**	ug/l	5,205.00	1.2	450000	74	P	
55	**Mn**	2	**53.960**	ug/l	53.96	2.0	15000	45	P	
59	**Co**	2	**53.770**	ug/l	53.77	1.9	4500	45	P	
60	**Ni**	2	**55.920**	ug/l	55.92	0.8	15000	45	P	
63	**Cu**	2	**54.230**	ug/l	54.23	1.4	15000	45	P	
66	**Zn**	2	**54.760**	ug/l	54.76	1.7	15000	45	P	
75	**As**	2	**51.970**	ug/l	51.97	1.4	4500	74	P	
78	**Se**	2	**59.180**	ug/l	59.18	6.9	4500	74	P	
88	**Sr**	3	**53.070**	ug/l	53.07	2.0	4500	74	P	
95	**Mo**	3	**53.020**	ug/l	53.02	2.3	4500	74	P	
107	**Ag**	3	**52.160**	ug/l	52.16	0.9	450	103	P	
111	**Cd**	3	**52.200**	ug/l	52.20	2.4	900	103	P	
118	**Sn**	3	**52.070**	ug/l	52.07	2.4	4500	103	P	
121	**Sb**	3	**52.450**	ug/l	52.45	2.0	4500	103	P	
135	**Ba**	3	**52.750**	ug/l	52.75	2.6	4500	103	P	
200	**Hg**	3	**4.455**	ug/l	4.46	1.2	45	209	P	
205	**Tl**	3	**51.850**	ug/l	51.85	3.3	4500	209	P	
208	**Pb**	3	**52.840**	ug/l	52.84	2.0	4500	209	P	
238	**U**	3	**51.010**	ug/l	51.01	2.8	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3836967	1.62	5119000	**75.0**	30	-	120	
45	Sc	1	204612	0.27	341400	**59.9**	30	-	120	
45	Sc	2	232187	2.06	273900	**84.8**	30	-	120	
74	Ge	1	175654	0.68	283600	**61.9**	30	-	120	
74	Ge	2	378946	1.20	422600	**89.7**	30	-	120	
74	Ge	3	1522366	1.49	1674000	**90.9**	30	-	120	
103	Rh	2	720662	0.44	814900	**88.4**	30	-	120	
103	Rh	3	1396247	1.04	1535000	**91.0**	30	-	120	
165	Ho	3	3032068	0.60	3236000	**93.7**	30	-	120	
175	Lu	3	3388139	1.32	3584000	**94.5**	30	-	120	
209	Bi	3	7054861	0.68	7619000	**92.6**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\080SMPL.D\080SMPL.D#
Date Acquired: May 27 2010 09:43 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.015**	ug/l	0.02	17.0	450	6	P	
23	**Na**	2	**4.040**	ug/l	4.04	10.5	450000	45	P	
24	**Mg**	2	**10.890**	ug/l	10.89	1.4	450000	45	P	
27	**Al**	2	**1.602**	ug/l	1.60	7.7	450000	45	P	
31	**P**	2	**-1.610**	ug/l	-1.61	384.2	450000	45	P	
39	**K**	2	**11.650**	ug/l	11.65	34.6	450000	45	P	
44	**Ca**	2	**3.423**	ug/l	3.42	41.3	450000	45	P	
47	**Ti**	2	**0.048**	ug/l	0.05	59.4	4500	45	P	
51	**V**	2	**-0.110**	ug/l	-0.11	12.6	4500	45	P	
52	**Cr**	2	**0.058**	ug/l	0.06	72.2	4500	45	P	
54	**Fe**	2	**6.053**	ug/l	6.05	11.8	450000	74	P	
55	**Mn**	2	**0.183**	ug/l	0.18	11.7	15000	45	P	
59	**Co**	2	**0.022**	ug/l	0.02	17.1	4500	45	P	
60	**Ni**	2	**0.183**	ug/l	0.18	78.9	15000	45	P	
63	**Cu**	2	**0.049**	ug/l	0.05	19.4	15000	45	P	
66	**Zn**	2	**0.073**	ug/l	0.07	25.4	15000	45	P	
75	**As**	2	**-0.046**	ug/l	-0.05	37.6	4500	74	P	
78	**Se**	2	**-0.106**	ug/l	-0.11	134.4	4500	74	P	
88	**Sr**	3	**0.009**	ug/l	0.01	58.4	4500	74	P	
95	**Mo**	3	**0.010**	ug/l	0.01	50.5	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	25.8	450	103	P	
111	**Cd**	3	**0.005**	ug/l	0.00	236.2	900	103	P	
118	**Sn**	3	**0.028**	ug/l	0.03	36.6	4500	103	P	
121	**Sb**	3	**0.013**	ug/l	0.01	12.5	4500	103	P	
135	**Ba**	3	**0.028**	ug/l	0.03	39.7	4500	103	P	
200	**Hg**	3	**1.491**	ug/l	1.49	0.8	45	209	P	
205	**Tl**	3	**0.324**	ug/l	0.32	3.9	4500	209	P	
208	**Pb**	3	**0.012**	ug/l	0.01	27.0	4500	209	P	
238	**U**	3	**0.009**	ug/l	0.01	17.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3802756	1.76	5119000	**74.3**	30	-	120	
45	Sc	1	222447	1.35	341400	**65.2**	30	-	120	
45	Sc	2	236914	0.55	273900	**86.5**	30	-	120	
74	Ge	1	194874	0.61	283600	**68.7**	30	-	120	
74	Ge	2	392403	0.76	422600	**92.9**	30	-	120	
74	Ge	3	1512202	2.43	1674000	**90.3**	30	-	120	
103	Rh	2	760092	1.00	814900	**93.3**	30	-	120	
103	Rh	3	1434895	1.43	1535000	**93.5**	30	-	120	
165	Ho	3	3064398	0.80	3236000	**94.7**	30	-	120	
175	Lu	3	3390854	0.91	3584000	**94.6**	30	-	120	
209	Bi	3	7264491	0.50	7619000	**95.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\081SMPL.D\081SMPL.D#
Date Acquired: May 27 2010 09:50 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-8-B Vial Number: 3101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.424**	ug/l	14.24	0.6	450	6	P	
23	**Na**	2	**90.970**	ug/l	909.70	5.2	450000	45	P	
24	**Mg**	2	**104000.000**	ug/l	1,040,000.00	0.9	450000	45	A	
27	**Al**	2	**41840.000**	ug/l	418,400.00	1.5	450000	45	A	
31	**P**	2	**590.100**	ug/l	5,901.00	1.9	450000	45	P	
39	**K**	2	**2911.000**	ug/l	29,110.00	1.1	450000	45	A	
44	**Ca**	2	**2636.000**	ug/l	26,360.00	1.7	450000	45	P	
47	**Ti**	2	**99.920**	ug/l	999.20	2.4	4500	45	P	
51	**V**	2	**126.600**	ug/l	1,266.00	0.4	4500	45	P	
52	**Cr**	2	**783.900**	ug/l	7,839.00	0.8	4500	45	A	
54	**Fe**	2	**127200.000**	ug/l	1,272,000.00	0.9	450000	74	A	
55	**Mn**	2	**2386.000**	ug/l	23,860.00	0.6	15000	45	A	
59	**Co**	2	**171.900**	ug/l	1,719.00	0.3	4500	45	P	
60	**Ni**	2	**2544.000**	ug/l	25,440.00	0.2	15000	45	A	
63	**Cu**	2	**74.900**	ug/l	749.00	1.1	15000	45	P	
66	**Zn**	2	**153.300**	ug/l	1,533.00	0.3	15000	45	P	
75	**As**	2	**21.050**	ug/l	210.50	0.2	4500	74	P	
78	**Se**	2	**1.247**	ug/l	12.47	52.2	4500	74	P	
88	**Sr**	3	**21.930**	ug/l	219.30	1.5	4500	74	P	
95	**Mo**	3	**0.855**	ug/l	8.55	3.7	4500	74	P	
107	**Ag**	3	**0.157**	ug/l	1.57	6.1	450	103	P	
111	**Cd**	3	**0.366**	ug/l	3.66	12.5	900	103	P	
118	**Sn**	3	**1.508**	ug/l	15.08	1.9	4500	103	P	
121	**Sb**	3	**1.211**	ug/l	12.11	3.3	4500	103	P	
135	**Ba**	3	**841.600**	ug/l	8,416.00	1.8	4500	103	P	
200	**Hg**	3	**627.600**	ug/l	6,276.00	1.0	45	209	A	Fail
205	**Tl**	3	**0.359**	ug/l	3.59	1.9	4500	209	P	
208	**Pb**	3	**25.440**	ug/l	254.40	0.2	4500	209	P	
238	**U**	3	**0.333**	ug/l	3.33	4.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3658549	1.09	5119000	**71.5**	30	-	120	
45	Sc	1	216069	0.43	341400	**63.3**	30	-	120	
45	Sc	2	267962	0.98	273900	**97.8**	30	-	120	
74	Ge	1	160980	0.77	283600	**56.8**	30	-	120	
74	Ge	2	381447	0.90	422600	**90.3**	30	-	120	
74	Ge	3	1526867	2.33	1674000	**91.2**	30	-	120	
103	Rh	2	694902	1.21	814900	**85.3**	30	-	120	
103	Rh	3	1374438	1.62	1535000	**89.5**	30	-	120	
165	Ho	3	3056074	0.22	3236000	**94.4**	30	-	120	
175	Lu	3	3398875	1.61	3584000	**94.8**	30	-	120	
209	Bi	3	6638683	0.61	7619000	**87.1**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\082SMPL.D\082SMPL.D#
Date Acquired: May 27 2010 09:57 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-9-A Vial Number: 3102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.456**	ug/l	14.56	2.8	450	6	P	
23	**Na**	2	**87.550**	ug/l	875.50	41.7	450000	45	P	
24	**Mg**	2	**29620.000**	ug/l	296,200.00	0.5	450000	45	A	
27	**Al**	2	**34050.000**	ug/l	340,500.00	1.3	450000	45	A	
31	**P**	2	**644.900**	ug/l	6,449.00	2.8	450000	45	P	
39	**K**	2	**2269.000**	ug/l	22,690.00	1.6	450000	45	A	
44	**Ca**	2	**1944.000**	ug/l	19,440.00	1.6	450000	45	P	
47	**Ti**	2	**1248.000**	ug/l	12,480.00	0.5	4500	45	P	
51	**V**	2	**99.580**	ug/l	995.80	0.7	4500	45	P	
52	**Cr**	2	**300.400**	ug/l	3,004.00	0.8	4500	45	P	
54	**Fe**	2	**75720.000**	ug/l	757,200.00	1.8	450000	74	A	
55	**Mn**	2	**1119.000**	ug/l	11,190.00	1.5	15000	45	A	
59	**Co**	2	**58.070**	ug/l	580.70	0.6	4500	45	P	
60	**Ni**	2	**610.400**	ug/l	6,104.00	0.4	15000	45	P	
63	**Cu**	2	**62.760**	ug/l	627.60	0.8	15000	45	P	
66	**Zn**	2	**131.300**	ug/l	1,313.00	0.3	15000	45	P	
75	**As**	2	**12.520**	ug/l	125.20	4.4	4500	74	P	
78	**Se**	2	**0.645**	ug/l	6.45	21.7	4500	74	P	
88	**Sr**	3	**10.430**	ug/l	104.30	1.5	4500	74	P	
95	**Mo**	3	**0.755**	ug/l	7.55	11.3	4500	74	P	
107	**Ag**	3	**0.030**	ug/l	0.30	16.2	450	103	P	
111	**Cd**	3	**0.284**	ug/l	2.84	9.6	900	103	P	
118	**Sn**	3	**1.358**	ug/l	13.58	1.6	4500	103	P	
121	**Sb**	3	**0.968**	ug/l	9.68	3.6	4500	103	P	
135	**Ba**	3	**239.300**	ug/l	2,393.00	1.8	4500	103	P	
200	**Hg**	3	**16.930**	ug/l	169.30	2.4	45	209	P	
205	**Tl**	3	**0.261**	ug/l	2.61	1.8	4500	209	P	
208	**Pb**	3	**24.090**	ug/l	240.90	1.0	4500	209	P	
238	**U**	3	**0.997**	ug/l	9.97	2.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3899313	2.09	5119000	**76.2**	30	-	120	
45	Sc	1	199337	1.62	341400	**58.4**	30	-	120	
45	Sc	2	260761	0.46	273900	**95.2**	30	-	120	
74	Ge	1	155718	1.69	283600	**54.9**	30	-	120	
74	Ge	2	386664	1.48	422600	**91.5**	30	-	120	
74	Ge	3	1608222	1.62	1674000	**96.1**	30	-	120	
103	Rh	2	722030	0.80	814900	**88.6**	30	-	120	
103	Rh	3	1461609	1.17	1535000	**95.2**	30	-	120	
165	Ho	3	3154200	0.58	3236000	**97.5**	30	-	120	
175	Lu	3	3513231	1.18	3584000	**98.0**	30	-	120	
209	Bi	3	6996478	0.90	7619000	**91.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\083SMPL.D\083SMPL.D#
Date Acquired: May 27 2010 10:04 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-10-A Vial Number: 3103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.108**	ug/l	11.08	3.7	450	6	P	
23	**Na**	2	**90.630**	ug/l	906.30	6.3	450000	45	P	
24	**Mg**	2	**37410.000**	ug/l	374,100.00	1.0	450000	45	A	
27	**Al**	2	**29690.000**	ug/l	296,900.00	1.3	450000	45	A	
31	**P**	2	**887.800**	ug/l	8,878.00	3.8	450000	45	P	
39	**K**	2	**2754.000**	ug/l	27,540.00	0.5	450000	45	A	
44	**Ca**	2	**6506.000**	ug/l	65,060.00	0.8	450000	45	P	
47	**Ti**	2	**696.500**	ug/l	6,965.00	0.8	4500	45	P	
51	**V**	2	**96.070**	ug/l	960.70	0.7	4500	45	P	
52	**Cr**	2	**282.000**	ug/l	2,820.00	0.9	4500	45	P	
54	**Fe**	2	**69710.000**	ug/l	697,100.00	1.3	450000	74	A	
55	**Mn**	2	**1383.000**	ug/l	13,830.00	0.2	15000	45	A	
59	**Co**	2	**54.000**	ug/l	540.00	0.5	4500	45	P	
60	**Ni**	2	**562.200**	ug/l	5,622.00	0.9	15000	45	P	
63	**Cu**	2	**78.080**	ug/l	780.80	1.4	15000	45	P	
66	**Zn**	2	**128.500**	ug/l	1,285.00	0.3	15000	45	P	
75	**As**	2	**14.740**	ug/l	147.40	2.7	4500	74	P	
78	**Se**	2	**0.307**	ug/l	3.07	203.3	4500	74	P	
88	**Sr**	3	**47.400**	ug/l	474.00	1.2	4500	74	P	
95	**Mo**	3	**1.632**	ug/l	16.32	6.3	4500	74	P	
107	**Ag**	3	**0.095**	ug/l	0.95	15.3	450	103	P	
111	**Cd**	3	**0.281**	ug/l	2.81	20.7	900	103	P	
118	**Sn**	3	**1.052**	ug/l	10.52	4.4	4500	103	P	
121	**Sb**	3	**1.017**	ug/l	10.17	2.9	4500	103	P	
135	**Ba**	3	**488.000**	ug/l	4,880.00	1.2	4500	103	P	
200	**Hg**	3	**72.920**	ug/l	729.20	1.1	45	209	P	Fail
205	**Tl**	3	**0.204**	ug/l	2.04	2.6	4500	209	P	
208	**Pb**	3	**25.350**	ug/l	253.50	0.4	4500	209	P	
238	**U**	3	**0.466**	ug/l	4.66	1.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3939096	1.22	5119000	**77.0**	30	-	120	
45	Sc	1	202387	1.02	341400	**59.3**	30	-	120	
45	Sc	2	263809	0.63	273900	**96.3**	30	-	120	
74	Ge	1	161520	1.87	283600	**57.0**	30	-	120	
74	Ge	2	390608	0.77	422600	**92.4**	30	-	120	
74	Ge	3	1604168	1.23	1674000	**95.8**	30	-	120	
103	Rh	2	721547	0.61	814900	**88.5**	30	-	120	
103	Rh	3	1428271	1.05	1535000	**93.0**	30	-	120	
165	Ho	3	3123711	1.18	3236000	**96.5**	30	-	120	
175	Lu	3	3485432	0.96	3584000	**97.2**	30	-	120	
209	Bi	3	6945183	0.99	7619000	**91.2**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\084SMPL.D\084SMPL.D#
Date Acquired: May 27 2010 10:11 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-11-B Vial Number: 3104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.101**	ug/l	11.01	5.6	450	6	P	
23	**Na**	2	**85.980**	ug/l	859.80	2.4	450000	45	P	
24	**Mg**	2	**84630.000**	ug/l	846,300.00	1.0	450000	45	A	
27	**Al**	2	**27650.000**	ug/l	276,500.00	1.4	450000	45	A	
31	**P**	2	**603.300**	ug/l	6,033.00	5.2	450000	45	P	
39	**K**	2	**2199.000**	ug/l	21,990.00	0.7	450000	45	M	
44	**Ca**	2	**3728.000**	ug/l	37,280.00	0.5	450000	45	P	
47	**Ti**	2	**500.200**	ug/l	5,002.00	0.7	4500	45	P	
51	**V**	2	**105.200**	ug/l	1,052.00	1.4	4500	45	P	
52	**Cr**	2	**703.300**	ug/l	7,033.00	0.2	4500	45	A	
54	**Fe**	2	**98670.000**	ug/l	986,700.00	1.7	450000	74	A	
55	**Mn**	2	**2692.000**	ug/l	26,920.00	0.9	15000	45	A	
59	**Co**	2	**143.600**	ug/l	1,436.00	0.3	4500	45	P	
60	**Ni**	2	**1995.000**	ug/l	19,950.00	0.2	15000	45	A	
63	**Cu**	2	**76.700**	ug/l	767.00	1.3	15000	45	P	
66	**Zn**	2	**140.900**	ug/l	1,409.00	1.5	15000	45	P	
75	**As**	2	**17.660**	ug/l	176.60	1.1	4500	74	P	
78	**Se**	2	**0.997**	ug/l	9.97	67.6	4500	74	P	
88	**Sr**	3	**28.080**	ug/l	280.80	0.9	4500	74	P	
95	**Mo**	3	**1.396**	ug/l	13.96	6.9	4500	74	P	
107	**Ag**	3	**0.093**	ug/l	0.93	12.4	450	103	P	
111	**Cd**	3	**0.282**	ug/l	2.82	3.7	900	103	P	
118	**Sn**	3	**0.990**	ug/l	9.90	8.9	4500	103	P	
121	**Sb**	3	**1.999**	ug/l	19.99	4.7	4500	103	P	
135	**Ba**	3	**549.100**	ug/l	5,491.00	1.0	4500	103	P	
200	**Hg**	3	**752.600**	ug/l	7,526.00	1.3	45	209	A	Fail
205	**Tl**	3	**0.195**	ug/l	1.95	1.7	4500	209	P	
208	**Pb**	3	**51.130**	ug/l	511.30	1.6	4500	209	P	
238	**U**	3	**0.550**	ug/l	5.50	0.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3703882	1.90	5119000	**72.4**	30	-	120	
45	Sc	1	191486	0.94	341400	**56.1**	30	-	120	
45	Sc	2	261502	0.98	273900	**95.5**	30	-	120	
74	Ge	1	145486	1.59	283600	**51.3**	30	-	120	
74	Ge	2	382587	1.40	422600	**90.5**	30	-	120	
74	Ge	3	1533587	0.79	1674000	**91.6**	30	-	120	
103	Rh	2	708580	1.52	814900	**87.0**	30	-	120	
103	Rh	3	1383990	1.17	1535000	**90.2**	30	-	120	
165	Ho	3	3105760	1.03	3236000	**96.0**	30	-	120	
175	Lu	3	3415428	0.81	3584000	**95.3**	30	-	120	
209	Bi	3	6751332	2.01	7619000	**88.6**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\085SMPL.D\085SMPL.D#
Date Acquired: May 27 2010 10:18 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-12-A Vial Number: 3105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.424**	ug/l	4.24	6.8	450	6	P	
23	**Na**	2	**152.100**	ug/l	1,521.00	1.8	450000	45	P	
24	**Mg**	2	**145200.000**	ug/l	1,452,000.00	1.1	450000	45	A	
27	**Al**	2	**38350.000**	ug/l	383,500.00	1.6	450000	45	A	
31	**P**	2	**255.500**	ug/l	2,555.00	8.9	450000	45	P	
39	**K**	2	**936.500**	ug/l	9,365.00	2.1	450000	45	P	
44	**Ca**	2	**3999.000**	ug/l	39,990.00	2.1	450000	45	P	
47	**Ti**	2	**575.400**	ug/l	5,754.00	0.9	4500	45	P	
51	**V**	2	**116.900**	ug/l	1,169.00	1.8	4500	45	P	
52	**Cr**	2	**1952.000**	ug/l	19,520.00	1.4	4500	45	A	
54	**Fe**	2	**116700.000**	ug/l	1,167,000.00	1.5	450000	74	A	
55	**Mn**	2	**1526.000**	ug/l	15,260.00	0.8	15000	45	A	
59	**Co**	2	**187.700**	ug/l	1,877.00	1.2	4500	45	P	
60	**Ni**	2	**2929.000**	ug/l	29,290.00	0.5	15000	45	A	
63	**Cu**	2	**68.370**	ug/l	683.70	1.8	15000	45	P	
66	**Zn**	2	**83.120**	ug/l	831.20	1.6	15000	45	P	
75	**As**	2	**18.390**	ug/l	183.90	1.8	4500	74	P	
78	**Se**	2	**0.283**	ug/l	2.83	184.4	4500	74	P	
88	**Sr**	3	**24.470**	ug/l	244.70	0.3	4500	74	P	
95	**Mo**	3	**0.293**	ug/l	2.93	5.8	4500	74	P	
107	**Ag**	3	**0.050**	ug/l	0.50	12.3	450	103	P	
111	**Cd**	3	**0.159**	ug/l	1.59	16.4	900	103	P	
118	**Sn**	3	**0.381**	ug/l	3.81	6.4	4500	103	P	
121	**Sb**	3	**0.504**	ug/l	5.04	0.7	4500	103	P	
135	**Ba**	3	**290.200**	ug/l	2,902.00	1.2	4500	103	P	
200	**Hg**	3	**27.900**	ug/l	279.00	0.3	45	209	P	
205	**Tl**	3	**0.188**	ug/l	1.88	0.6	4500	209	P	
208	**Pb**	3	**7.128**	ug/l	71.28	0.9	4500	209	P	
238	**U**	3	**0.122**	ug/l	1.22	3.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3515934	0.79	5119000	**68.7**	30	-	120	
45	Sc	1	195668	1.94	341400	**57.3**	30	-	120	
45	Sc	2	259539	0.38	273900	**94.8**	30	-	120	
74	Ge	1	146643	2.34	283600	**51.7**	30	-	120	
74	Ge	2	367871	1.30	422600	**87.0**	30	-	120	
74	Ge	3	1496607	0.20	1674000	**89.4**	30	-	120	
103	Rh	2	688541	1.42	814900	**84.5**	30	-	120	
103	Rh	3	1356879	0.50	1535000	**88.4**	30	-	120	
165	Ho	3	3042941	1.40	3236000	**94.0**	30	-	120	
175	Lu	3	3376903	0.58	3584000	**94.2**	30	-	120	
209	Bi	3	6607722	1.17	7619000	**86.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\086SMPL.D\086SMPL.D#
Date Acquired: May 27 2010 10:25 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-13-B Vial Number: 3106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.941**	ug/l	9.41	4.0	450	6	P	
23	**Na**	2	**39.350**	ug/l	393.50	2.2	450000	45	P	
24	**Mg**	2	**75200.000**	ug/l	752,000.00	2.2	450000	45	A	
27	**Al**	2	**17920.000**	ug/l	179,200.00	0.4	450000	45	A	
31	**P**	2	**730.800**	ug/l	7,308.00	4.0	450000	45	P	
39	**K**	2	**2323.000**	ug/l	23,230.00	1.0	450000	45	A	
44	**Ca**	2	**2446.000**	ug/l	24,460.00	0.4	450000	45	P	
47	**Ti**	2	**105.200**	ug/l	1,052.00	5.1	4500	45	P	
51	**V**	2	**83.200**	ug/l	832.00	0.8	4500	45	P	
52	**Cr**	2	**484.300**	ug/l	4,843.00	0.6	4500	45	A	
54	**Fe**	2	**101300.000**	ug/l	1,013,000.00	1.3	450000	74	A	
55	**Mn**	2	**1635.000**	ug/l	16,350.00	1.1	15000	45	A	
59	**Co**	2	**139.400**	ug/l	1,394.00	0.2	4500	45	P	
60	**Ni**	2	**2520.000**	ug/l	25,200.00	2.0	15000	45	A	
63	**Cu**	2	**64.480**	ug/l	644.80	0.7	15000	45	P	
66	**Zn**	2	**139.400**	ug/l	1,394.00	1.3	15000	45	P	
75	**As**	2	**14.410**	ug/l	144.10	5.1	4500	74	P	
78	**Se**	2	**0.748**	ug/l	7.48	68.4	4500	74	P	
88	**Sr**	3	**27.340**	ug/l	273.40	2.0	4500	74	P	
95	**Mo**	3	**1.170**	ug/l	11.70	7.5	4500	74	P	
107	**Ag**	3	**0.127**	ug/l	1.27	3.2	450	103	P	
111	**Cd**	3	**0.239**	ug/l	2.39	13.9	900	103	P	
118	**Sn**	3	**2.078**	ug/l	20.78	1.4	4500	103	P	
121	**Sb**	3	**2.469**	ug/l	24.69	1.9	4500	103	P	
135	**Ba**	3	**241.900**	ug/l	2,419.00	0.6	4500	103	P	
200	**Hg**	3	**66.040**	ug/l	660.40	1.7	45	209	P	Fail
205	**Tl**	3	**0.211**	ug/l	2.11	9.8	4500	209	P	
208	**Pb**	3	**233.600**	ug/l	2,336.00	1.4	4500	209	A	
238	**U**	3	**0.335**	ug/l	3.35	3.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3611349	1.03	5119000	**70.5**	30	-	120	
45	Sc	1	188403	2.08	341400	**55.2**	30	-	120	
45	Sc	2	259143	0.94	273900	**94.6**	30	-	120	
74	Ge	1	144971	1.29	283600	**51.1**	30	-	120	
74	Ge	2	381922	1.24	422600	**90.4**	30	-	120	
74	Ge	3	1512008	1.25	1674000	**90.3**	30	-	120	
103	Rh	2	706642	1.38	814900	**86.7**	30	-	120	
103	Rh	3	1378286	1.56	1535000	**89.8**	30	-	120	
165	Ho	3	3062666	0.85	3236000	**94.6**	30	-	120	
175	Lu	3	3349822	1.64	3584000	**93.5**	30	-	120	
209	Bi	3	6677571	1.72	7619000	**87.6**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\087SMPL.D\087SMPL.D#
Date Acquired: May 27 2010 10:32 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**51.230**	ug/l	51.23	2.7	450	6	P	
23	**Na**	2	**5015.000**	ug/l	5,015.00	3.6	450000	45	A	
24	**Mg**	2	**5134.000**	ug/l	5,134.00	2.9	450000	45	A	
27	**Al**	2	**500.200**	ug/l	500.20	1.1	450000	45	P	
31	**P**	2	**4890.000**	ug/l	4,890.00	1.0	450000	45	P	
39	**K**	2	**5265.000**	ug/l	5,265.00	1.7	450000	45	A	
44	**Ca**	2	**5221.000**	ug/l	5,221.00	3.1	450000	45	P	
47	**Ti**	2	**52.670**	ug/l	52.67	1.4	4500	45	P	
51	**V**	2	**52.340**	ug/l	52.34	1.3	4500	45	P	
52	**Cr**	2	**53.230**	ug/l	53.23	2.0	4500	45	P	
54	**Fe**	2	**5169.000**	ug/l	5,169.00	0.5	450000	74	P	
55	**Mn**	2	**53.920**	ug/l	53.92	1.4	15000	45	P	
59	**Co**	2	**53.190**	ug/l	53.19	1.6	4500	45	P	
60	**Ni**	2	**54.100**	ug/l	54.10	0.2	15000	45	P	
63	**Cu**	2	**53.860**	ug/l	53.86	1.0	15000	45	P	
66	**Zn**	2	**54.850**	ug/l	54.85	1.4	15000	45	P	
75	**As**	2	**51.370**	ug/l	51.37	1.5	4500	74	P	
78	**Se**	2	**50.110**	ug/l	50.11	6.8	4500	74	P	
88	**Sr**	3	**53.910**	ug/l	53.91	0.1	4500	74	P	
95	**Mo**	3	**53.810**	ug/l	53.81	0.6	4500	74	P	
107	**Ag**	3	**51.830**	ug/l	51.83	2.3	450	103	P	
111	**Cd**	3	**51.540**	ug/l	51.54	1.8	900	103	P	
118	**Sn**	3	**52.510**	ug/l	52.51	2.7	4500	103	P	
121	**Sb**	3	**52.680**	ug/l	52.68	2.8	4500	103	P	
135	**Ba**	3	**53.690**	ug/l	53.69	3.6	4500	103	P	
200	**Hg**	3	**4.330**	ug/l	4.33	1.3	45	209	P	
205	**Tl**	3	**51.770**	ug/l	51.77	2.6	4500	209	P	
208	**Pb**	3	**52.880**	ug/l	52.88	2.0	4500	209	P	
238	**U**	3	**52.020**	ug/l	52.02	3.0	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3727925	0.85	5119000	**72.8**	30	-	120	
45	Sc	1	195966	0.68	341400	**57.4**	30	-	120	
45	Sc	2	223784	1.67	273900	**81.7**	30	-	120	
74	Ge	1	165171	1.34	283600	**58.2**	30	-	120	
74	Ge	2	364915	1.06	422600	**86.4**	30	-	120	
74	Ge	3	1464999	2.25	1674000	**87.5**	30	-	120	
103	Rh	2	698555	1.62	814900	**85.7**	30	-	120	
103	Rh	3	1355518	0.85	1535000	**88.3**	30	-	120	
165	Ho	3	3016618	0.55	3236000	**93.2**	30	-	120	
175	Lu	3	3349103	0.92	3584000	**93.4**	30	-	120	
209	Bi	3	7001938	1.10	7619000	**91.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\088SMPL.D\088SMPL.D#
Date Acquired: May 27 2010 10:39 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.013**	ug/l	0.01	42.2	450	6	P	
23	**Na**	2	**3.233**	ug/l	3.23	38.4	450000	45	P	
24	**Mg**	2	**6.984**	ug/l	6.98	5.1	450000	45	P	
27	**Al**	2	**1.632**	ug/l	1.63	23.2	450000	45	P	
31	**P**	2	**-5.544**	ug/l	-5.54	21.3	450000	45	P	
39	**K**	2	**9.779**	ug/l	9.78	40.6	450000	45	P	
44	**Ca**	2	**3.008**	ug/l	3.01	56.7	450000	45	P	
47	**Ti**	2	**0.035**	ug/l	0.03	70.3	4500	45	P	
51	**V**	2	**-0.107**	ug/l	-0.11	47.8	4500	45	P	
52	**Cr**	2	**0.045**	ug/l	0.05	103.9	4500	45	P	
54	**Fe**	2	**5.699**	ug/l	5.70	13.1	450000	74	P	
55	**Mn**	2	**0.208**	ug/l	0.21	5.7	15000	45	P	
59	**Co**	2	**0.027**	ug/l	0.03	5.7	4500	45	P	
60	**Ni**	2	**0.204**	ug/l	0.20	16.9	15000	45	P	
63	**Cu**	2	**0.022**	ug/l	0.02	47.8	15000	45	P	
66	**Zn**	2	**0.140**	ug/l	0.14	20.5	15000	45	P	
75	**As**	2	**-0.053**	ug/l	-0.05	24.6	4500	74	P	
78	**Se**	2	**0.085**	ug/l	0.08	446.6	4500	74	P	
88	**Sr**	3	**0.013**	ug/l	0.01	44.6	4500	74	P	
95	**Mo**	3	**0.011**	ug/l	0.01	111.1	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.01	43.0	450	103	P	
111	**Cd**	3	**0.006**	ug/l	0.01	176.7	900	103	P	
118	**Sn**	3	**0.039**	ug/l	0.04	27.0	4500	103	P	
121	**Sb**	3	**0.023**	ug/l	0.02	26.0	4500	103	P	
135	**Ba**	3	**0.032**	ug/l	0.03	32.7	4500	103	P	
200	**Hg**	3	**1.504**	ug/l	1.50	0.9	45	209	P	
205	**Tl**	3	**0.331**	ug/l	0.33	8.9	4500	209	P	
208	**Pb**	3	**0.023**	ug/l	0.02	11.7	4500	209	P	
238	**U**	3	**0.010**	ug/l	0.01	9.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3539394	0.62	5119000	**69.1**	30	-	120	
45	Sc	1	205779	1.30	341400	**60.3**	30	-	120	
45	Sc	2	227463	0.70	273900	**83.0**	30	-	120	
74	Ge	1	180855	0.85	283600	**63.8**	30	-	120	
74	Ge	2	378403	0.93	422600	**89.5**	30	-	120	
74	Ge	3	1451116	0.92	1674000	**86.7**	30	-	120	
103	Rh	2	740264	0.51	814900	**90.8**	30	-	120	
103	Rh	3	1369834	1.11	1535000	**89.2**	30	-	120	
165	Ho	3	2989092	0.62	3236000	**92.4**	30	-	120	
175	Lu	3	3331687	0.94	3584000	**93.0**	30	-	120	
209	Bi	3	7166026	0.69	7619000	**94.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\089SMPL.D\089SMPL.D#
Date Acquired: May 27 2010 10:47 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64499/19-A Vial Number: 3201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	85.3	450	6	P	
23	**Na**	2	**5.484**	ug/l	5.48	220.8	450000	45	P	
24	**Mg**	2	**1.932**	ug/l	1.93	7.4	450000	45	P	
27	**Al**	2	**0.450**	ug/l	0.45	9.0	450000	45	P	
31	**P**	2	**-10.130**	ug/l	-10.13	37.6	450000	45	P	
39	**K**	2	**12.610**	ug/l	12.61	166.7	450000	45	P	
44	**Ca**	2	**-0.272**	ug/l	-0.27	290.1	450000	45	P	
47	**Ti**	2	**0.008**	ug/l	0.01	176.1	4500	45	P	
51	**V**	2	**-0.104**	ug/l	-0.10	89.6	4500	45	P	
52	**Cr**	2	**0.019**	ug/l	0.02	403.7	4500	45	P	
54	**Fe**	2	**1.188**	ug/l	1.19	69.5	450000	74	P	
55	**Mn**	2	**0.154**	ug/l	0.15	24.6	15000	45	P	
59	**Co**	2	**0.008**	ug/l	0.01	12.8	4500	45	P	
60	**Ni**	2	**0.083**	ug/l	0.08	77.0	15000	45	P	
63	**Cu**	2	**0.019**	ug/l	0.02	45.5	15000	45	P	
66	**Zn**	2	**0.073**	ug/l	0.07	17.0	15000	45	P	
75	**As**	2	**-0.031**	ug/l	-0.03	121.8	4500	74	P	
78	**Se**	2	**0.158**	ug/l	0.16	347.3	4500	74	P	
88	**Sr**	3	**0.004**	ug/l	0.00	41.2	4500	74	P	
95	**Mo**	3	**-0.008**	ug/l	-0.01	55.9	4500	74	P	
107	**Ag**	3	**-0.003**	ug/l	0.00	76.8	450	103	P	
111	**Cd**	3	**0.000**	ug/l	0.00	587.3	900	103	P	
118	**Sn**	3	**0.010**	ug/l	0.01	78.5	4500	103	P	
121	**Sb**	3	**0.010**	ug/l	0.01	58.7	4500	103	P	
135	**Ba**	3	**0.007**	ug/l	0.01	161.0	4500	103	P	
200	**Hg**	3	**1.390**	ug/l	1.39	2.4	45	209	P	
205	**Tl**	3	**0.118**	ug/l	0.12	10.1	4500	209	P	
208	**Pb**	3	**0.005**	ug/l	0.01	24.3	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.00	237.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3549359	1.47	5119000	**69.3**	30	-	120	
45	Sc	1	206146	1.32	341400	**60.4**	30	-	120	
45	Sc	2	222901	12.14	273900	**81.4**	30	-	120	
74	Ge	1	181795	0.79	283600	**64.1**	30	-	120	
74	Ge	2	372000	10.17	422600	**88.0**	30	-	120	
74	Ge	3	1438880	0.05	1674000	**86.0**	30	-	120	
103	Rh	2	728774	12.02	814900	**89.4**	30	-	120	
103	Rh	3	1390077	0.67	1535000	**90.6**	30	-	120	
165	Ho	3	3010248	0.22	3236000	**93.0**	30	-	120	
175	Lu	3	3381929	1.12	3584000	**94.4**	30	-	120	
209	Bi	3	7230005	0.67	7619000	**94.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\090SMPL.D\090SMPL.D#
Date Acquired: May 27 2010 10:54 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-E SD Vial Number: 3202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.01	90.8	450	6	P	
23	**Na**	2	**1214.000**	ug/l	6,070.00	2.0	450000	45	A	
24	**Mg**	2	**2004.000**	ug/l	10,020.00	1.2	450000	45	P	
27	**Al**	2	**27.230**	ug/l	136.15	2.5	450000	45	P	
31	**P**	2	**3.632**	ug/l	18.16	66.7	450000	45	P	
39	**K**	2	**401.500**	ug/l	2,007.50	2.2	450000	45	P	
44	**Ca**	2	**1723.000**	ug/l	8,615.00	3.7	450000	45	P	
47	**Ti**	2	**0.077**	ug/l	0.38	50.6	4500	45	P	
51	**V**	2	**1.524**	ug/l	7.62	8.5	4500	45	P	
52	**Cr**	2	**1.201**	ug/l	6.01	5.4	4500	45	P	
54	**Fe**	2	**2.471**	ug/l	12.36	19.5	450000	74	P	
55	**Mn**	2	**0.228**	ug/l	1.14	2.9	15000	45	P	
59	**Co**	2	**1.754**	ug/l	8.77	3.5	4500	45	P	
60	**Ni**	2	**0.247**	ug/l	1.23	32.2	15000	45	P	
63	**Cu**	2	**0.047**	ug/l	0.23	37.3	15000	45	P	
66	**Zn**	2	**0.246**	ug/l	1.23	40.0	15000	45	P	
75	**As**	2	**0.503**	ug/l	2.52	2.3	4500	74	P	
78	**Se**	2	**-0.069**	ug/l	-0.35	425.4	4500	74	P	
88	**Sr**	3	**10.020**	ug/l	50.10	1.6	4500	74	P	
95	**Mo**	3	**0.054**	ug/l	0.27	33.6	4500	74	P	
107	**Ag**	3	**-0.001**	ug/l	0.00	212.7	450	103	P	
111	**Cd**	3	**-0.001**	ug/l	0.00	571.6	900	103	P	
118	**Sn**	3	**0.022**	ug/l	0.11	34.2	4500	103	P	
121	**Sb**	3	**0.019**	ug/l	0.09	24.1	4500	103	P	
135	**Ba**	3	**0.876**	ug/l	4.38	6.2	4500	103	P	
200	**Hg**	3	**0.708**	ug/l	3.54	3.5	45	209	P	
205	**Tl**	3	**0.071**	ug/l	0.36	8.5	4500	209	P	
208	**Pb**	3	**0.009**	ug/l	0.04	25.9	4500	209	P	
238	**U**	3	**0.009**	ug/l	0.04	47.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3302573	1.83	5119000	**64.5**	30	-	120	
45	Sc	1	192925	0.50	341400	**56.5**	30	-	120	
45	Sc	2	219359	0.67	273900	**80.1**	30	-	120	
74	Ge	1	172757	1.57	283600	**60.9**	30	-	120	
74	Ge	2	370841	0.47	422600	**87.8**	30	-	120	
74	Ge	3	1445680	1.87	1674000	**86.4**	30	-	120	
103	Rh	2	708844	0.31	814900	**87.0**	30	-	120	
103	Rh	3	1341837	0.90	1535000	**87.4**	30	-	120	
165	Ho	3	2981920	0.80	3236000	**92.1**	30	-	120	
175	Lu	3	3327813	0.27	3584000	**92.9**	30	-	120	
209	Bi	3	7047988	0.94	7619000	**92.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\091SMPL.D\091SMPL.D#
Date Acquired: May 27 2010 11:01 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-E Vial Number: 3203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.00	80.1	450	6	P	
23	**Na**	2	**5902.000**	ug/l	5,902.00	0.3	450000	45	A	
24	**Mg**	2	**9439.000**	ug/l	9,439.00	0.8	450000	45	A	
27	**Al**	2	**7.775**	ug/l	7.78	6.3	450000	45	P	
31	**P**	2	**48.250**	ug/l	48.25	19.3	450000	45	P	
39	**K**	2	**2011.000**	ug/l	2,011.00	0.6	450000	45	P	
44	**Ca**	2	**8455.000**	ug/l	8,455.00	0.6	450000	45	P	
47	**Ti**	2	**0.368**	ug/l	0.37	22.4	4500	45	P	
51	**V**	2	**9.511**	ug/l	9.51	1.4	4500	45	P	
52	**Cr**	2	**5.894**	ug/l	5.89	1.3	4500	45	P	
54	**Fe**	2	**9.418**	ug/l	9.42	7.8	450000	74	P	
55	**Mn**	2	**0.718**	ug/l	0.72	1.2	15000	45	P	
59	**Co**	2	**8.794**	ug/l	8.79	0.8	4500	45	P	
60	**Ni**	2	**1.148**	ug/l	1.15	6.8	15000	45	P	
63	**Cu**	2	**0.440**	ug/l	0.44	18.2	15000	45	P	
66	**Zn**	2	**9.612**	ug/l	9.61	3.3	15000	45	P	
75	**As**	2	**2.491**	ug/l	2.49	6.4	4500	74	P	
78	**Se**	2	**-0.078**	ug/l	-0.08	184.3	4500	74	P	
88	**Sr**	3	**46.120**	ug/l	46.12	2.6	4500	74	P	
95	**Mo**	3	**0.229**	ug/l	0.23	15.7	4500	74	P	
107	**Ag**	3	**0.000**	ug/l	0.00	2969.0	450	103	P	
111	**Cd**	3	**0.017**	ug/l	0.02	83.6	900	103	P	
118	**Sn**	3	**0.232**	ug/l	0.23	2.5	4500	103	P	
121	**Sb**	3	**0.106**	ug/l	0.11	21.6	4500	103	P	
135	**Ba**	3	**4.332**	ug/l	4.33	4.0	4500	103	P	
200	**Hg**	3	**0.239**	ug/l	0.24	4.1	45	209	P	
205	**Tl**	3	**0.065**	ug/l	0.06	9.1	4500	209	P	
208	**Pb**	3	**0.037**	ug/l	0.04	3.0	4500	209	P	
238	**U**	3	**0.051**	ug/l	0.05	6.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2852653	1.29	5119000	**55.7**	30	-	120	
45	Sc	1	174932	2.55	341400	**51.2**	30	-	120	
45	Sc	2	204614	0.95	273900	**74.7**	30	-	120	
74	Ge	1	165368	1.29	283600	**58.3**	30	-	120	
74	Ge	2	375772	1.22	422600	**88.9**	30	-	120	
74	Ge	3	1433402	0.76	1674000	**85.6**	30	-	120	
103	Rh	2	656125	0.98	814900	**80.5**	30	-	120	
103	Rh	3	1262760	0.56	1535000	**82.3**	30	-	120	
165	Ho	3	2870410	0.86	3236000	**88.7**	30	-	120	
175	Lu	3	3167731	1.31	3584000	**88.4**	30	-	120	
209	Bi	3	6654344	0.39	7619000	**87.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\092SMPL.D\092SMPL.D#
Date Acquired: May 27 2010 11:08 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-F DU Vial Number: 3204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	37.6	450	6	P	
23	**Na**	2	**5879.000**	ug/l	5,879.00	3.6	450000	45	A	
24	**Mg**	2	**9319.000**	ug/l	9,319.00	2.5	450000	45	A	
27	**Al**	2	**7.238**	ug/l	7.24	9.3	450000	45	P	
31	**P**	2	**42.240**	ug/l	42.24	13.3	450000	45	P	
39	**K**	2	**2017.000**	ug/l	2,017.00	2.1	450000	45	P	
44	**Ca**	2	**8409.000**	ug/l	8,409.00	2.4	450000	45	P	
47	**Ti**	2	**0.550**	ug/l	0.55	51.2	4500	45	P	
51	**V**	2	**9.675**	ug/l	9.68	2.2	4500	45	P	
52	**Cr**	2	**5.945**	ug/l	5.95	1.5	4500	45	P	
54	**Fe**	2	**9.762**	ug/l	9.76	6.1	450000	74	P	
55	**Mn**	2	**0.706**	ug/l	0.71	1.5	15000	45	P	
59	**Co**	2	**8.750**	ug/l	8.75	1.6	4500	45	P	
60	**Ni**	2	**1.209**	ug/l	1.21	18.1	15000	45	P	
63	**Cu**	2	**0.379**	ug/l	0.38	7.2	15000	45	P	
66	**Zn**	2	**1.907**	ug/l	1.91	16.7	15000	45	P	
75	**As**	2	**2.480**	ug/l	2.48	5.1	4500	74	P	
78	**Se**	2	**-0.146**	ug/l	-0.15	448.2	4500	74	P	
88	**Sr**	3	**46.460**	ug/l	46.46	3.9	4500	74	P	
95	**Mo**	3	**0.262**	ug/l	0.26	28.8	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	111.3	450	103	P	
111	**Cd**	3	**-0.003**	ug/l	0.00	420.1	900	103	P	
118	**Sn**	3	**0.121**	ug/l	0.12	6.7	4500	103	P	
121	**Sb**	3	**0.090**	ug/l	0.09	9.3	4500	103	P	
135	**Ba**	3	**4.180**	ug/l	4.18	5.6	4500	103	P	
200	**Hg**	3	**0.216**	ug/l	0.22	4.0	45	209	P	
205	**Tl**	3	**0.054**	ug/l	0.05	13.7	4500	209	P	
208	**Pb**	3	**0.038**	ug/l	0.04	11.1	4500	209	P	
238	**U**	3	**0.053**	ug/l	0.05	5.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2687960	2.22	5119000	**52.5**	30	-	120	
45	Sc	1	167065	0.44	341400	**48.9**	30	-	120	
45	Sc	2	199838	2.46	273900	**73.0**	30	-	120	
74	Ge	1	159907	1.28	283600	**56.4**	30	-	120	
74	Ge	2	366695	0.62	422600	**86.8**	30	-	120	
74	Ge	3	1403228	4.03	1674000	**83.8**	30	-	120	
103	Rh	2	646139	1.62	814900	**79.3**	30	-	120	
103	Rh	3	1236048	1.27	1535000	**80.5**	30	-	120	
165	Ho	3	2844239	1.65	3236000	**87.9**	30	-	120	
175	Lu	3	3183670	1.69	3584000	**88.8**	30	-	120	
209	Bi	3	6613079	0.30	7619000	**86.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\093SMPL.D\093SMPL.D#
Date Acquired: May 27 2010 11:15 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-G MS Vial Number: 3205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.147**	ug/l	107.35	1.8	450	6	P	
23	**Na**	2	**549.900**	ug/l	27,495.00	1.2	450000	45	P	
24	**Mg**	2	**628.200**	ug/l	31,410.00	1.3	450000	45	P	
27	**Al**	2	**86.720**	ug/l	4,336.00	1.6	450000	45	P	
31	**P**	2	**388.500**	ug/l	19,425.00	1.1	450000	45	P	
39	**K**	2	**478.600**	ug/l	23,930.00	1.8	450000	45	P	
44	**Ca**	2	**592.300**	ug/l	29,615.00	5.9	450000	45	P	
47	**Ti**	2	**102.200**	ug/l	5,110.00	1.3	4500	45	P	
51	**V**	2	**21.100**	ug/l	1,055.00	1.3	4500	45	P	
52	**Cr**	2	**8.653**	ug/l	432.65	2.5	4500	45	P	
54	**Fe**	2	**456.200**	ug/l	22,810.00	1.1	450000	74	P	
55	**Mn**	2	**21.850**	ug/l	1,092.50	1.2	15000	45	P	
59	**Co**	2	**21.820**	ug/l	1,091.00	0.6	4500	45	P	
60	**Ni**	2	**22.150**	ug/l	1,107.50	1.9	15000	45	P	
63	**Cu**	2	**10.910**	ug/l	545.50	2.2	15000	45	P	
66	**Zn**	2	**22.810**	ug/l	1,140.50	1.4	15000	45	P	
75	**As**	2	**80.070**	ug/l	4,003.50	0.4	4500	74	P	
78	**Se**	2	**82.640**	ug/l	4,132.00	3.5	4500	74	P	
88	**Sr**	3	**0.974**	ug/l	48.70	1.7	4500	74	P	
95	**Mo**	3	**107.400**	ug/l	5,370.00	1.1	4500	74	P	
107	**Ag**	3	**12.490**	ug/l	624.50	1.7	450	103	P	
111	**Cd**	3	**2.055**	ug/l	102.75	1.6	900	103	P	
118	**Sn**	3	**106.300**	ug/l	5,315.00	1.0	4500	103	P	
121	**Sb**	3	**61.300**	ug/l	3,065.00	1.1	4500	103	P	
135	**Ba**	3	**84.820**	ug/l	4,241.00	1.5	4500	103	P	
200	**Hg**	3	**1.923**	ug/l	96.15	0.1	45	209	P	
205	**Tl**	3	**80.280**	ug/l	4,014.00	1.8	4500	209	A	
208	**Pb**	3	**21.100**	ug/l	1,055.00	1.3	4500	209	P	
238	**U**	3	**0.000**	ug/l	-0.01	187.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3645884	1.48	5119000	**71.2**	30	-	120	
45	Sc	1	191092	0.90	341400	**56.0**	30	-	120	
45	Sc	2	221996	1.23	273900	**81.0**	30	-	120	
74	Ge	1	167674	1.24	283600	**59.1**	30	-	120	
74	Ge	2	366252	0.86	422600	**86.7**	30	-	120	
74	Ge	3	1437383	0.75	1674000	**85.9**	30	-	120	
103	Rh	2	715074	1.61	814900	**87.7**	30	-	120	
103	Rh	3	1365896	1.31	1535000	**89.0**	30	-	120	
165	Ho	3	2985228	0.47	3236000	**92.3**	30	-	120	
175	Lu	3	3314399	0.95	3584000	**92.5**	30	-	120	
209	Bi	3	7153365	0.61	7619000	**93.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed

0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\094SMPL.D\094SMPL.D#
Date Acquired: May 27 2010 11:22 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-H MSD Vial Number: 3206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.097**	ug/l	104.85	5.1	450	6	P	
23	**Na**	2	**568.700**	ug/l	28,435.00	0.8	450000	45	P	
24	**Mg**	2	**640.400**	ug/l	32,020.00	0.8	450000	45	P	
27	**Al**	2	**83.630**	ug/l	4,181.50	0.6	450000	45	P	
31	**P**	2	**402.300**	ug/l	20,115.00	5.2	450000	45	P	
39	**K**	2	**496.400**	ug/l	24,820.00	2.0	450000	45	P	
44	**Ca**	2	**639.800**	ug/l	31,990.00	0.6	450000	45	P	
47	**Ti**	2	**105.400**	ug/l	5,270.00	1.1	4500	45	P	
51	**V**	2	**21.290**	ug/l	1,064.50	2.1	4500	45	P	
52	**Cr**	2	**8.860**	ug/l	443.00	1.2	4500	45	P	
54	**Fe**	2	**472.800**	ug/l	23,640.00	1.2	450000	74	P	
55	**Mn**	2	**22.420**	ug/l	1,121.00	0.6	15000	45	P	
59	**Co**	2	**22.510**	ug/l	1,125.50	0.9	4500	45	P	
60	**Ni**	2	**22.710**	ug/l	1,135.50	3.7	15000	45	P	
63	**Cu**	2	**11.670**	ug/l	583.50	0.5	15000	45	P	
66	**Zn**	2	**22.400**	ug/l	1,120.00	2.5	15000	45	P	
75	**As**	2	**82.550**	ug/l	4,127.50	1.0	4500	74	P	
78	**Se**	2	**87.380**	ug/l	4,369.00	1.1	4500	74	P	
88	**Sr**	3	**0.995**	ug/l	49.76	4.8	4500	74	P	
95	**Mo**	3	**109.500**	ug/l	5,475.00	0.7	4500	74	P	
107	**Ag**	3	**12.960**	ug/l	648.00	0.5	450	103	P	
111	**Cd**	3	**2.135**	ug/l	106.75	4.6	900	103	P	
118	**Sn**	3	**110.800**	ug/l	5,540.00	1.2	4500	103	P	
121	**Sb**	3	**63.810**	ug/l	3,190.50	1.9	4500	103	P	
135	**Ba**	3	**88.530**	ug/l	4,426.50	2.0	4500	103	P	
200	**Hg**	3	**2.167**	ug/l	108.35	0.1	45	209	P	
205	**Tl**	3	**82.550**	ug/l	4,127.50	0.8	4500	209	A	
208	**Pb**	3	**21.730**	ug/l	1,086.50	0.9	4500	209	P	
238	**U**	3	**0.000**	ug/l	-0.02	162.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3738018	1.63	5119000	**73.0**	30	-	120	
45	Sc	1	188553	1.10	341400	**55.2**	30	-	120	
45	Sc	2	223858	0.08	273900	**81.7**	30	-	120	
74	Ge	1	166899	1.45	283600	**58.9**	30	-	120	
74	Ge	2	369745	0.94	422600	**87.5**	30	-	120	
74	Ge	3	1463319	0.15	1674000	**87.4**	30	-	120	
103	Rh	2	715227	0.64	814900	**87.8**	30	-	120	
103	Rh	3	1359983	1.27	1535000	**88.6**	30	-	120	
165	Ho	3	2967428	1.18	3236000	**91.7**	30	-	120	
175	Lu	3	3330529	0.50	3584000	**92.9**	30	-	120	
209	Bi	3	7156704	0.88	7619000	**93.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\095SMPL.D\095SMPL.D#
Date Acquired: May 27 2010 11:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-E PDS Vial Number: 3207
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.180**	ug/l	109.00	2.3	450	6	P	
23	**Na**	2	**558.200**	ug/l	27,910.00	0.9	450000	45	P	
24	**Mg**	2	**638.500**	ug/l	31,925.00	2.0	450000	45	P	
27	**Al**	2	**82.810**	ug/l	4,140.50	1.8	450000	45	P	
31	**P**	2	**389.700**	ug/l	19,485.00	0.4	450000	45	P	
39	**K**	2	**492.800**	ug/l	24,640.00	0.6	450000	45	P	
44	**Ca**	2	**605.700**	ug/l	30,285.00	2.5	450000	45	P	
47	**Ti**	2	**105.100**	ug/l	5,255.00	1.4	4500	45	P	
51	**V**	2	**21.780**	ug/l	1,089.00	1.0	4500	45	P	
52	**Cr**	2	**8.886**	ug/l	444.30	3.8	4500	45	P	
54	**Fe**	2	**462.900**	ug/l	23,145.00	0.2	450000	74	P	
55	**Mn**	2	**22.480**	ug/l	1,124.00	0.4	15000	45	P	
59	**Co**	2	**22.380**	ug/l	1,119.00	0.6	4500	45	P	
60	**Ni**	2	**22.500**	ug/l	1,125.00	1.3	15000	45	P	
63	**Cu**	2	**11.260**	ug/l	563.00	2.1	15000	45	P	
66	**Zn**	2	**22.240**	ug/l	1,112.00	2.2	15000	45	P	
75	**As**	2	**82.450**	ug/l	4,122.50	0.8	4500	74	P	
78	**Se**	2	**89.970**	ug/l	4,498.50	4.2	4500	74	P	
88	**Sr**	3	**1.020**	ug/l	51.00	1.1	4500	74	P	
95	**Mo**	3	**109.900**	ug/l	5,495.00	1.8	4500	74	P	
107	**Ag**	3	**12.870**	ug/l	643.50	0.9	450	103	P	
111	**Cd**	3	**2.103**	ug/l	105.15	4.2	900	103	P	
118	**Sn**	3	**109.900**	ug/l	5,495.00	2.0	4500	103	P	
121	**Sb**	3	**63.440**	ug/l	3,172.00	2.3	4500	103	P	
135	**Ba**	3	**88.150**	ug/l	4,407.50	3.6	4500	103	P	
200	**Hg**	3	**2.165**	ug/l	108.25	1.2	45	209	P	
205	**Tl**	3	**82.280**	ug/l	4,114.00	1.3	4500	209	A	
208	**Pb**	3	**21.690**	ug/l	1,084.50	2.3	4500	209	P	
238	**U**	3	**0.000**	ug/l	-0.02	227.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3764377	0.50	5119000	**73.5**	30	-	120	
45	Sc	1	192631	0.70	341400	**56.4**	30	-	120	
45	Sc	2	227347	0.94	273900	**83.0**	30	-	120	
74	Ge	1	168599	1.03	283600	**59.4**	30	-	120	
74	Ge	2	373966	0.28	422600	**88.5**	30	-	120	
74	Ge	3	1469452	0.30	1674000	**87.8**	30	-	120	
103	Rh	2	722627	1.63	814900	**88.7**	30	-	120	
103	Rh	3	1380069	0.69	1535000	**89.9**	30	-	120	
165	Ho	3	3030507	0.83	3236000	**93.6**	30	-	120	
175	Lu	3	3335013	1.02	3584000	**93.1**	30	-	120	
209	Bi	3	7207560	0.60	7619000	**94.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\096SMPL.D\096SMPL.D#
Date Acquired: May 27 2010 11:37 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64499/20-A Vial Number: 3208
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.113**	ug/l	105.65	1.2	450	6	P	
23	**Na**	2	**420.500**	ug/l	21,025.00	0.8	450000	45	P	
24	**Mg**	2	**414.400**	ug/l	20,720.00	1.1	450000	45	P	
27	**Al**	2	**77.830**	ug/l	3,891.50	2.3	450000	45	P	
31	**P**	2	**354.000**	ug/l	17,700.00	4.1	450000	45	P	
39	**K**	2	**434.800**	ug/l	21,740.00	0.9	450000	45	P	
44	**Ca**	2	**421.100**	ug/l	21,055.00	2.0	450000	45	P	
47	**Ti**	2	**101.100**	ug/l	5,055.00	1.7	4500	45	P	
51	**V**	2	**21.010**	ug/l	1,050.50	0.3	4500	45	P	
52	**Cr**	2	**8.186**	ug/l	409.30	2.0	4500	45	P	
54	**Fe**	2	**449.200**	ug/l	22,460.00	1.2	450000	74	P	
55	**Mn**	2	**21.300**	ug/l	1,065.00	0.9	15000	45	P	
59	**Co**	2	**21.370**	ug/l	1,068.50	0.7	4500	45	P	
60	**Ni**	2	**21.570**	ug/l	1,078.50	1.6	15000	45	P	
63	**Cu**	2	**10.910**	ug/l	545.50	2.5	15000	45	P	
66	**Zn**	2	**21.720**	ug/l	1,086.00	3.0	15000	45	P	
75	**As**	2	**81.010**	ug/l	4,050.50	0.8	4500	74	P	
78	**Se**	2	**78.360**	ug/l	3,918.00	4.2	4500	74	P	
88	**Sr**	3	**0.002**	ug/l	0.12	185.2	4500	74	P	
95	**Mo**	3	**106.500**	ug/l	5,325.00	0.7	4500	74	P	
107	**Ag**	3	**12.450**	ug/l	622.50	1.4	450	103	P	
111	**Cd**	3	**2.100**	ug/l	105.00	4.6	900	103	P	
118	**Sn**	3	**106.800**	ug/l	5,340.00	1.3	4500	103	P	
121	**Sb**	3	**60.530**	ug/l	3,026.50	1.3	4500	103	P	
135	**Ba**	3	**83.710**	ug/l	4,185.50	0.7	4500	103	P	
200	**Hg**	3	**1.587**	ug/l	79.35	1.5	45	209	P	
205	**Tl**	3	**79.970**	ug/l	3,998.50	1.5	4500	209	A	
208	**Pb**	3	**20.950**	ug/l	1,047.50	1.2	4500	209	P	
238	**U**	3	**-0.002**	ug/l	-0.08	8.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3374207	1.62	5119000	**65.9**	30	-	120	
45	Sc	1	183561	0.89	341400	**53.8**	30	-	120	
45	Sc	2	221824	1.76	273900	**81.0**	30	-	120	
74	Ge	1	160856	0.95	283600	**56.7**	30	-	120	
74	Ge	2	369206	1.82	422600	**87.4**	30	-	120	
74	Ge	3	1446739	0.08	1674000	**86.4**	30	-	120	
103	Rh	2	722921	2.22	814900	**88.7**	30	-	120	
103	Rh	3	1375131	1.17	1535000	**89.6**	30	-	120	
165	Ho	3	3014344	1.31	3236000	**93.2**	30	-	120	
175	Lu	3	3416381	0.55	3584000	**95.3**	30	-	120	
209	Bi	3	7261040	1.58	7619000	**95.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\097SMPL.D\097SMPL.D#
Date Acquired: May 27 2010 11:44 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64499/21-A Vial Number: 3209
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.105**	ug/l	105.25	2.6	450	6	P	
23	**Na**	2	**419.800**	ug/l	20,990.00	1.9	450000	45	P	
24	**Mg**	2	**410.200**	ug/l	20,510.00	1.0	450000	45	P	
27	**Al**	2	**78.110**	ug/l	3,905.50	0.2	450000	45	P	
31	**P**	2	**360.500**	ug/l	18,025.00	4.0	450000	45	P	
39	**K**	2	**439.900**	ug/l	21,995.00	1.6	450000	45	P	
44	**Ca**	2	**414.300**	ug/l	20,715.00	4.0	450000	45	P	
47	**Ti**	2	**101.000**	ug/l	5,050.00	0.6	4500	45	P	
51	**V**	2	**21.180**	ug/l	1,059.00	0.6	4500	45	P	
52	**Cr**	2	**8.423**	ug/l	421.15	0.7	4500	45	P	
54	**Fe**	2	**446.000**	ug/l	22,300.00	2.0	450000	74	P	
55	**Mn**	2	**21.540**	ug/l	1,077.00	2.0	15000	45	P	
59	**Co**	2	**21.450**	ug/l	1,072.50	1.6	4500	45	P	
60	**Ni**	2	**21.460**	ug/l	1,073.00	4.8	15000	45	P	
63	**Cu**	2	**11.090**	ug/l	554.50	3.3	15000	45	P	
66	**Zn**	2	**21.560**	ug/l	1,078.00	3.0	15000	45	P	
75	**As**	2	**81.420**	ug/l	4,071.00	0.9	4500	74	P	
78	**Se**	2	**82.680**	ug/l	4,134.00	8.6	4500	74	P	
88	**Sr**	3	**0.012**	ug/l	0.60	31.5	4500	74	P	
95	**Mo**	3	**106.400**	ug/l	5,320.00	1.7	4500	74	P	
107	**Ag**	3	**12.450**	ug/l	622.50	1.4	450	103	P	
111	**Cd**	3	**2.063**	ug/l	103.15	9.2	900	103	P	
118	**Sn**	3	**106.100**	ug/l	5,305.00	1.3	4500	103	P	
121	**Sb**	3	**60.030**	ug/l	3,001.50	0.6	4500	103	P	
135	**Ba**	3	**83.880**	ug/l	4,194.00	0.9	4500	103	P	
200	**Hg**	3	**1.559**	ug/l	77.95	2.2	45	209	P	
205	**Tl**	3	**80.640**	ug/l	4,032.00	1.4	4500	209	A	
208	**Pb**	3	**20.790**	ug/l	1,039.50	2.2	4500	209	P	
238	**U**	3	**-0.001**	ug/l	-0.06	22.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3349102	0.33	5119000	**65.4**	30	-	120	
45	Sc	1	177859	0.69	341400	**52.1**	30	-	120	
45	Sc	2	221115	1.34	273900	**80.7**	30	-	120	
74	Ge	1	153704	1.42	283600	**54.2**	30	-	120	
74	Ge	2	368054	0.23	422600	**87.1**	30	-	120	
74	Ge	3	1444342	0.84	1674000	**86.3**	30	-	120	
103	Rh	2	723055	0.40	814900	**88.7**	30	-	120	
103	Rh	3	1365530	0.72	1535000	**89.0**	30	-	120	
165	Ho	3	3034244	0.66	3236000	**93.8**	30	-	120	
175	Lu	3	3358152	1.43	3584000	**93.7**	30	-	120	
209	Bi	3	7234663	0.98	7619000	**95.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\098SMPL.D\098SMPL.D#
Date Acquired: May 27 2010 11:51 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**54.230**	ug/l	54.23	1.4	450	6	P	
23	**Na**	2	**4904.000**	ug/l	4,904.00	2.2	450000	45	A	
24	**Mg**	2	**4988.000**	ug/l	4,988.00	0.9	450000	45	A	
27	**Al**	2	**488.600**	ug/l	488.60	2.4	450000	45	P	
31	**P**	2	**4909.000**	ug/l	4,909.00	0.6	450000	45	P	
39	**K**	2	**5195.000**	ug/l	5,195.00	1.4	450000	45	A	
44	**Ca**	2	**5210.000**	ug/l	5,210.00	0.2	450000	45	P	
47	**Ti**	2	**52.780**	ug/l	52.78	0.7	4500	45	P	
51	**V**	2	**51.670**	ug/l	51.67	1.2	4500	45	P	
52	**Cr**	2	**52.290**	ug/l	52.29	1.5	4500	45	P	
54	**Fe**	2	**5070.000**	ug/l	5,070.00	0.4	450000	74	P	
55	**Mn**	2	**53.640**	ug/l	53.64	0.8	15000	45	P	
59	**Co**	2	**53.200**	ug/l	53.20	0.9	4500	45	P	
60	**Ni**	2	**53.470**	ug/l	53.47	3.6	15000	45	P	
63	**Cu**	2	**53.580**	ug/l	53.58	1.0	15000	45	P	
66	**Zn**	2	**53.290**	ug/l	53.29	1.6	15000	45	P	
75	**As**	2	**51.690**	ug/l	51.69	1.3	4500	74	P	
78	**Se**	2	**50.120**	ug/l	50.12	3.1	4500	74	P	
88	**Sr**	3	**54.040**	ug/l	54.04	2.2	4500	74	P	
95	**Mo**	3	**54.130**	ug/l	54.13	2.1	4500	74	P	
107	**Ag**	3	**52.000**	ug/l	52.00	0.2	450	103	P	
111	**Cd**	3	**52.080**	ug/l	52.08	1.9	900	103	P	
118	**Sn**	3	**52.870**	ug/l	52.87	1.9	4500	103	P	
121	**Sb**	3	**52.370**	ug/l	52.37	1.2	4500	103	P	
135	**Ba**	3	**53.040**	ug/l	53.04	1.1	4500	103	P	
200	**Hg**	3	**3.264**	ug/l	3.26	1.8	45	209	P	
205	**Tl**	3	**53.070**	ug/l	53.07	1.4	4500	209	P	
208	**Pb**	3	**53.100**	ug/l	53.10	1.6	4500	209	P	
238	**U**	3	**51.920**	ug/l	51.92	2.6	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3523044	1.20	5119000	**68.8**	30	-	120	
45	Sc	1	183017	2.22	341400	**53.6**	30	-	120	
45	Sc	2	229828	0.70	273900	**83.9**	30	-	120	
74	Ge	1	161858	3.12	283600	**57.1**	30	-	120	
74	Ge	2	379230	0.69	422600	**89.7**	30	-	120	
74	Ge	3	1494042	1.63	1674000	**89.2**	30	-	120	
103	Rh	2	718497	0.83	814900	**88.2**	30	-	120	
103	Rh	3	1403076	0.78	1535000	**91.4**	30	-	120	
165	Ho	3	3066196	1.24	3236000	**94.8**	30	-	120	
175	Lu	3	3412388	0.38	3584000	**95.2**	30	-	120	
209	Bi	3	7136907	0.09	7619000	**93.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\099SMPL.D\099SMPL.D#
Date Acquired: May 27 2010 11:58 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.016**	ug/l	0.02	17.0	450	6	P	
23	**Na**	2	**6.261**	ug/l	6.26	13.6	450000	45	P	
24	**Mg**	2	**2.578**	ug/l	2.58	11.9	450000	45	P	
27	**Al**	2	**0.269**	ug/l	0.27	11.7	450000	45	P	
31	**P**	2	**-6.389**	ug/l	-6.39	64.3	450000	45	P	
39	**K**	2	**10.820**	ug/l	10.82	27.4	450000	45	P	
44	**Ca**	2	**3.966**	ug/l	3.97	40.5	450000	45	P	
47	**Ti**	2	**0.018**	ug/l	0.02	106.3	4500	45	P	
51	**V**	2	**-0.061**	ug/l	-0.06	53.6	4500	45	P	
52	**Cr**	2	**0.033**	ug/l	0.03	38.8	4500	45	P	
54	**Fe**	2	**1.894**	ug/l	1.89	26.4	450000	74	P	
55	**Mn**	2	**0.125**	ug/l	0.13	7.3	15000	45	P	
59	**Co**	2	**0.024**	ug/l	0.02	18.3	4500	45	P	
60	**Ni**	2	**0.148**	ug/l	0.15	43.8	15000	45	P	
63	**Cu**	2	**0.026**	ug/l	0.03	27.8	15000	45	P	
66	**Zn**	2	**0.073**	ug/l	0.07	71.2	15000	45	P	
75	**As**	2	**-0.055**	ug/l	-0.06	34.9	4500	74	P	
78	**Se**	2	**0.165**	ug/l	0.16	233.0	4500	74	P	
88	**Sr**	3	**0.007**	ug/l	0.01	59.7	4500	74	P	
95	**Mo**	3	**0.017**	ug/l	0.02	105.4	4500	74	P	
107	**Ag**	3	**0.006**	ug/l	0.01	128.7	450	103	P	
111	**Cd**	3	**0.008**	ug/l	0.01	88.4	900	103	P	
118	**Sn**	3	**0.076**	ug/l	0.08	14.2	4500	103	P	
121	**Sb**	3	**0.035**	ug/l	0.04	13.9	4500	103	P	
135	**Ba**	3	**0.022**	ug/l	0.02	80.0	4500	103	P	
200	**Hg**	3	**0.622**	ug/l	0.62	2.6	45	209	P	
205	**Tl**	3	**0.640**	ug/l	0.64	7.0	4500	209	P	
208	**Pb**	3	**0.014**	ug/l	0.01	30.3	4500	209	P	
238	**U**	3	**0.008**	ug/l	0.01	35.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3364518	1.66	5119000	**65.7**	30	-	120	
45	Sc	1	186274	1.96	341400	**54.6**	30	-	120	
45	Sc	2	230080	0.36	273900	**84.0**	30	-	120	
74	Ge	1	162161	1.91	283600	**57.2**	30	-	120	
74	Ge	2	380527	1.22	422600	**90.0**	30	-	120	
74	Ge	3	1472733	1.06	1674000	**88.0**	30	-	120	
103	Rh	2	744411	1.43	814900	**91.4**	30	-	120	
103	Rh	3	1403615	1.00	1535000	**91.4**	30	-	120	
165	Ho	3	3067805	0.81	3236000	**94.8**	30	-	120	
175	Lu	3	3410210	0.61	3584000	**95.2**	30	-	120	
209	Bi	3	7331702	1.67	7619000	**96.2**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\100SMPL.D\100SMPL.D#
Date Acquired: May 28 2010 12:05 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-2-B Vial Number: 3301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.009**	ug/l	0.01	78.0	450	6	P	
23	**Na**	2	**11680.000**	ug/l	11,680.00	1.6	450000	45	A	
24	**Mg**	2	**24900.000**	ug/l	24,900.00	1.7	450000	45	A	
27	**Al**	2	**7.333**	ug/l	7.33	8.7	450000	45	P	
31	**P**	2	**52.440**	ug/l	52.44	5.4	450000	45	P	
39	**K**	2	**2902.000**	ug/l	2,902.00	1.5	450000	45	M	
44	**Ca**	2	**21070.000**	ug/l	21,070.00	0.8	450000	45	P	
47	**Ti**	2	**0.278**	ug/l	0.28	33.0	4500	45	P	
51	**V**	2	**6.630**	ug/l	6.63	4.2	4500	45	P	
52	**Cr**	2	**0.742**	ug/l	0.74	11.0	4500	45	P	
54	**Fe**	2	**47.270**	ug/l	47.27	2.0	450000	74	P	
55	**Mn**	2	**373.500**	ug/l	373.50	1.1	15000	45	P	
59	**Co**	2	**1.025**	ug/l	1.03	1.2	4500	45	P	
60	**Ni**	2	**3.624**	ug/l	3.62	3.1	15000	45	P	
63	**Cu**	2	**0.457**	ug/l	0.46	16.0	15000	45	P	
66	**Zn**	2	**2.294**	ug/l	2.29	9.0	15000	45	P	
75	**As**	2	**4.785**	ug/l	4.79	1.0	4500	74	P	
78	**Se**	2	**0.263**	ug/l	0.26	256.6	4500	74	P	
88	**Sr**	3	**125.800**	ug/l	125.80	1.1	4500	74	A	
95	**Mo**	3	**5.913**	ug/l	5.91	2.6	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	104.3	450	103	P	
111	**Cd**	3	**0.033**	ug/l	0.03	61.3	900	103	P	
118	**Sn**	3	**0.375**	ug/l	0.38	11.2	4500	103	P	
121	**Sb**	3	**0.148**	ug/l	0.15	19.9	4500	103	P	
135	**Ba**	3	**14.790**	ug/l	14.79	3.1	4500	103	P	
200	**Hg**	3	**0.176**	ug/l	0.18	1.5	45	209	P	
205	**Tl**	3	**0.368**	ug/l	0.37	4.8	4500	209	P	
208	**Pb**	3	**0.033**	ug/l	0.03	9.9	4500	209	P	
238	**U**	3	**0.496**	ug/l	0.50	2.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2764018	2.31	5119000	**54.0**	30	-	120	
45	Sc	1	162599	1.28	341400	**47.6**	30	-	120	
45	Sc	2	204451	1.55	273900	**74.6**	30	-	120	
74	Ge	1	153167	1.43	283600	**54.0**	30	-	120	
74	Ge	2	374828	1.11	422600	**88.7**	30	-	120	
74	Ge	3	1464844	1.60	1674000	**87.5**	30	-	120	
103	Rh	2	642730	1.94	814900	**78.9**	30	-	120	
103	Rh	3	1249398	2.36	1535000	**81.4**	30	-	120	
165	Ho	3	2902099	1.12	3236000	**89.7**	30	-	120	
175	Lu	3	3270918	0.82	3584000	**91.3**	30	-	120	
209	Bi	3	6630748	0.84	7619000	**87.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\101SMPL.D\101SMPL.D#
Date Acquired: May 28 2010 12:12 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-3-B Vial Number: 3302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.00	106.4	450	6	P	
23	**Na**	2	**7408.000**	ug/l	7,408.00	1.8	450000	45	A	
24	**Mg**	2	**26210.000**	ug/l	26,210.00	1.8	450000	45	A	
27	**Al**	2	**9.477**	ug/l	9.48	4.8	450000	45	P	
31	**P**	2	**31.520**	ug/l	31.52	14.5	450000	45	P	
39	**K**	2	**2842.000**	ug/l	2,842.00	1.8	450000	45	M	
44	**Ca**	2	**21140.000**	ug/l	21,140.00	2.3	450000	45	P	
47	**Ti**	2	**0.465**	ug/l	0.46	5.5	4500	45	P	
51	**V**	2	**9.778**	ug/l	9.78	2.1	4500	45	P	
52	**Cr**	2	**4.186**	ug/l	4.19	3.4	4500	45	P	
54	**Fe**	2	**8.882**	ug/l	8.88	8.3	450000	74	P	
55	**Mn**	2	**1.027**	ug/l	1.03	2.6	15000	45	P	
59	**Co**	2	**0.146**	ug/l	0.15	4.3	4500	45	P	
60	**Ni**	2	**2.158**	ug/l	2.16	1.6	15000	45	P	
63	**Cu**	2	**1.193**	ug/l	1.19	6.4	15000	45	P	
66	**Zn**	2	**1.673**	ug/l	1.67	2.9	15000	45	P	
75	**As**	2	**1.861**	ug/l	1.86	4.0	4500	74	P	
78	**Se**	2	**-0.254**	ug/l	-0.25	172.5	4500	74	P	
88	**Sr**	3	**114.100**	ug/l	114.10	0.9	4500	74	A	
95	**Mo**	3	**0.220**	ug/l	0.22	11.4	4500	74	P	
107	**Ag**	3	**0.022**	ug/l	0.02	38.0	450	103	P	
111	**Cd**	3	**0.009**	ug/l	0.01	216.0	900	103	P	
118	**Sn**	3	**0.319**	ug/l	0.32	9.9	4500	103	P	
121	**Sb**	3	**0.106**	ug/l	0.11	12.3	4500	103	P	
135	**Ba**	3	**11.670**	ug/l	11.67	2.1	4500	103	P	
200	**Hg**	3	**0.192**	ug/l	0.19	3.5	45	209	P	
205	**Tl**	3	**0.252**	ug/l	0.25	3.2	4500	209	P	
208	**Pb**	3	**0.037**	ug/l	0.04	8.3	4500	209	P	
238	**U**	3	**0.632**	ug/l	0.63	2.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2663534	1.10	5119000	**52.0**	30	-	120	
45	Sc	1	161211	1.87	341400	**47.2**	30	-	120	
45	Sc	2	203247	2.05	273900	**74.2**	30	-	120	
74	Ge	1	151976	0.75	283600	**53.6**	30	-	120	
74	Ge	2	381498	0.77	422600	**90.3**	30	-	120	
74	Ge	3	1448838	1.76	1674000	**86.5**	30	-	120	
103	Rh	2	647023	0.51	814900	**79.4**	30	-	120	
103	Rh	3	1247963	0.62	1535000	**81.3**	30	-	120	
165	Ho	3	2918888	1.15	3236000	**90.2**	30	-	120	
175	Lu	3	3246898	0.46	3584000	**90.6**	30	-	120	
209	Bi	3	6594426	0.71	7619000	**86.6**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\102SMPL.D\102SMPL.D#
Date Acquired: May 28 2010 12:20 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-4-B Vial Number: 3303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	204.3	450	6	P	
23	**Na**	2	**7307.000**	ug/l	7,307.00	2.2	450000	45	A	
24	**Mg**	2	**14610.000**	ug/l	14,610.00	1.4	450000	45	A	
27	**Al**	2	**7.655**	ug/l	7.66	6.5	450000	45	P	
31	**P**	2	**29.870**	ug/l	29.87	21.8	450000	45	P	
39	**K**	2	**2277.000**	ug/l	2,277.00	0.5	450000	45	P	
44	**Ca**	2	**11390.000**	ug/l	11,390.00	1.8	450000	45	P	
47	**Ti**	2	**0.363**	ug/l	0.36	16.9	4500	45	P	
51	**V**	2	**11.000**	ug/l	11.00	1.3	4500	45	P	
52	**Cr**	2	**0.546**	ug/l	0.55	4.4	4500	45	P	
54	**Fe**	2	**4.824**	ug/l	4.82	30.1	450000	74	P	
55	**Mn**	2	**59.860**	ug/l	59.86	1.0	15000	45	P	
59	**Co**	2	**0.163**	ug/l	0.16	2.8	4500	45	P	
60	**Ni**	2	**3.326**	ug/l	3.33	3.0	15000	45	P	
63	**Cu**	2	**1.919**	ug/l	1.92	6.1	15000	45	P	
66	**Zn**	2	**1.852**	ug/l	1.85	5.1	15000	45	P	
75	**As**	2	**2.791**	ug/l	2.79	4.0	4500	74	P	
78	**Se**	2	**-0.317**	ug/l	-0.32	96.8	4500	74	P	
88	**Sr**	3	**57.990**	ug/l	57.99	4.4	4500	74	P	
95	**Mo**	3	**2.253**	ug/l	2.25	2.2	4500	74	P	
107	**Ag**	3	**0.000**	ug/l	0.00	856.3	450	103	P	
111	**Cd**	3	**0.015**	ug/l	0.01	46.3	900	103	P	
118	**Sn**	3	**0.120**	ug/l	0.12	15.8	4500	103	P	
121	**Sb**	3	**0.146**	ug/l	0.15	6.5	4500	103	P	
135	**Ba**	3	**5.665**	ug/l	5.67	0.4	4500	103	P	
200	**Hg**	3	**0.179**	ug/l	0.18	6.7	45	209	P	
205	**Tl**	3	**0.183**	ug/l	0.18	2.7	4500	209	P	
208	**Pb**	3	**0.025**	ug/l	0.03	11.3	4500	209	P	
238	**U**	3	**0.078**	ug/l	0.08	5.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2677063	0.05	5119000	**52.3**	30	-	120	
45	Sc	1	148997	2.53	341400	**43.6**	30	-	120	
45	Sc	2	197390	1.81	273900	**72.1**	30	-	120	
74	Ge	1	143009	2.22	283600	**50.4**	30	-	120	
74	Ge	2	363444	1.07	422600	**86.0**	30	-	120	
74	Ge	3	1372188	2.70	1674000	**82.0**	30	-	120	
103	Rh	2	633529	1.45	814900	**77.7**	30	-	120	
103	Rh	3	1211541	1.09	1535000	**78.9**	30	-	120	
165	Ho	3	2834281	2.03	3236000	**87.6**	30	-	120	
175	Lu	3	3200710	1.47	3584000	**89.3**	30	-	120	
209	Bi	3	6583712	0.33	7619000	**86.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\103SMPL.D\103SMPL.D#
Date Acquired: May 28 2010 12:27 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-5-B Vial Number: 3304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	70.6	450	6	P	
23	**Na**	2	**7238.000**	ug/l	7,238.00	0.5	450000	45	A	
24	**Mg**	2	**14260.000**	ug/l	14,260.00	0.3	450000	45	A	
27	**Al**	2	**6.217**	ug/l	6.22	5.7	450000	45	P	
31	**P**	2	**37.190**	ug/l	37.19	24.2	450000	45	P	
39	**K**	2	**2244.000**	ug/l	2,244.00	1.3	450000	45	P	
44	**Ca**	2	**11170.000**	ug/l	11,170.00	1.1	450000	45	P	
47	**Ti**	2	**0.318**	ug/l	0.32	40.3	4500	45	P	
51	**V**	2	**11.030**	ug/l	11.03	1.9	4500	45	P	
52	**Cr**	2	**0.506**	ug/l	0.51	14.6	4500	45	P	
54	**Fe**	2	**4.610**	ug/l	4.61	18.2	450000	74	P	
55	**Mn**	2	**56.100**	ug/l	56.10	0.5	15000	45	P	
59	**Co**	2	**0.151**	ug/l	0.15	9.8	4500	45	P	
60	**Ni**	2	**3.292**	ug/l	3.29	8.7	15000	45	P	
63	**Cu**	2	**1.566**	ug/l	1.57	4.4	15000	45	P	
66	**Zn**	2	**1.424**	ug/l	1.42	18.3	15000	45	P	
75	**As**	2	**2.837**	ug/l	2.84	6.3	4500	74	P	
78	**Se**	2	**-0.401**	ug/l	-0.40	100.5	4500	74	P	
88	**Sr**	3	**56.780**	ug/l	56.78	1.4	4500	74	P	
95	**Mo**	3	**2.197**	ug/l	2.20	3.1	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.01	74.1	450	103	P	
111	**Cd**	3	**0.032**	ug/l	0.03	47.9	900	103	P	
118	**Sn**	3	**0.093**	ug/l	0.09	6.5	4500	103	P	
121	**Sb**	3	**0.126**	ug/l	0.13	18.2	4500	103	P	
135	**Ba**	3	**5.705**	ug/l	5.71	2.3	4500	103	P	
200	**Hg**	3	**0.165**	ug/l	0.16	8.0	45	209	P	
205	**Tl**	3	**0.143**	ug/l	0.14	2.9	4500	209	P	
208	**Pb**	3	**0.012**	ug/l	0.01	43.7	4500	209	P	
238	**U**	3	**0.075**	ug/l	0.07	2.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2660959	0.57	5119000	**52.0**	30	-	120	
45	Sc	1	145792	0.94	341400	**42.7**	30	-	120	
45	Sc	2	197906	1.34	273900	**72.3**	30	-	120	
74	Ge	1	136895	2.35	283600	**48.3**	30	-	120	
74	Ge	2	357354	1.43	422600	**84.6**	30	-	120	
74	Ge	3	1373421	0.12	1674000	**82.0**	30	-	120	
103	Rh	2	626838	1.14	814900	**76.9**	30	-	120	
103	Rh	3	1211051	1.09	1535000	**78.9**	30	-	120	
165	Ho	3	2840987	0.40	3236000	**87.8**	30	-	120	
175	Lu	3	3172339	0.80	3584000	**88.5**	30	-	120	
209	Bi	3	6498283	0.80	7619000	**85.3**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\104SMPL.D\104SMPL.D#
Date Acquired: May 28 2010 12:34 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-6-B Vial Number: 3305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	76.0	450	6	P	
23	**Na**	2	**19790.000**	ug/l	19,790.00	1.4	450000	45	A	
24	**Mg**	2	**17130.000**	ug/l	17,130.00	0.7	450000	45	A	
27	**Al**	2	**7.604**	ug/l	7.60	2.5	450000	45	P	
31	**P**	2	**46.360**	ug/l	46.36	23.8	450000	45	P	
39	**K**	2	**3070.000**	ug/l	3,070.00	3.8	450000	45	M	
44	**Ca**	2	**14150.000**	ug/l	14,150.00	0.6	450000	45	P	
47	**Ti**	2	**0.249**	ug/l	0.25	25.0	4500	45	P	
51	**V**	2	**11.730**	ug/l	11.73	1.4	4500	45	P	
52	**Cr**	2	**0.550**	ug/l	0.55	6.5	4500	45	P	
54	**Fe**	2	**31.140**	ug/l	31.14	3.3	450000	74	P	
55	**Mn**	2	**81.050**	ug/l	81.05	0.4	15000	45	P	
59	**Co**	2	**0.113**	ug/l	0.11	2.3	4500	45	P	
60	**Ni**	2	**0.937**	ug/l	0.94	2.0	15000	45	P	
63	**Cu**	2	**0.319**	ug/l	0.32	15.0	15000	45	P	
66	**Zn**	2	**1.216**	ug/l	1.22	9.9	15000	45	P	
75	**As**	2	**3.883**	ug/l	3.88	3.7	4500	74	P	
78	**Se**	2	**-0.401**	ug/l	-0.40	76.8	4500	74	P	
88	**Sr**	3	**69.010**	ug/l	69.01	2.4	4500	74	P	
95	**Mo**	3	**1.255**	ug/l	1.26	7.4	4500	74	P	
107	**Ag**	3	**0.002**	ug/l	0.00	139.8	450	103	P	
111	**Cd**	3	**0.019**	ug/l	0.02	108.0	900	103	P	
118	**Sn**	3	**0.099**	ug/l	0.10	17.0	4500	103	P	
121	**Sb**	3	**0.085**	ug/l	0.09	6.9	4500	103	P	
135	**Ba**	3	**11.130**	ug/l	11.13	3.2	4500	103	P	
200	**Hg**	3	**0.178**	ug/l	0.18	9.0	45	209	P	
205	**Tl**	3	**0.113**	ug/l	0.11	9.5	4500	209	P	
208	**Pb**	3	**0.020**	ug/l	0.02	28.3	4500	209	P	
238	**U**	3	**0.275**	ug/l	0.28	0.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2623079	2.32	5119000	**51.2**	30	-	120	
45	Sc	1	146723	2.05	341400	**43.0**	30	-	120	
45	Sc	2	196498	1.20	273900	**71.7**	30	-	120	
74	Ge	1	136935	0.44	283600	**48.3**	30	-	120	
74	Ge	2	360555	0.80	422600	**85.3**	30	-	120	
74	Ge	3	1368614	2.98	1674000	**81.8**	30	-	120	
103	Rh	2	617695	1.01	814900	**75.8**	30	-	120	
103	Rh	3	1203202	1.04	1535000	**78.4**	30	-	120	
165	Ho	3	2894194	0.87	3236000	**89.4**	30	-	120	
175	Lu	3	3202168	0.75	3584000	**89.3**	30	-	120	
209	Bi	3	6410938	0.79	7619000	**84.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\105SMPL.D\105SMPL.D#
Date Acquired: May 28 2010 12:41 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-7-B Vial Number: 3306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.00	171.8	450	6	P	
23	**Na**	2	**13460.000**	ug/l	13,460.00	1.9	450000	45	A	
24	**Mg**	2	**24890.000**	ug/l	24,890.00	3.3	450000	45	A	
27	**Al**	2	**8.464**	ug/l	8.46	8.1	450000	45	P	
31	**P**	2	**186.100**	ug/l	186.10	10.8	450000	45	P	
39	**K**	2	**2382.000**	ug/l	2,382.00	1.6	450000	45	P	
44	**Ca**	2	**28270.000**	ug/l	28,270.00	1.7	450000	45	P	
47	**Ti**	2	**0.588**	ug/l	0.59	7.4	4500	45	P	
51	**V**	2	**5.308**	ug/l	5.31	7.1	4500	45	P	
52	**Cr**	2	**0.745**	ug/l	0.75	8.3	4500	45	P	
54	**Fe**	2	**740.400**	ug/l	740.40	1.2	450000	74	P	
55	**Mn**	2	**3521.000**	ug/l	3,521.00	2.3	15000	45	A	
59	**Co**	2	**1.232**	ug/l	1.23	3.3	4500	45	P	
60	**Ni**	2	**1.956**	ug/l	1.96	13.3	15000	45	P	
63	**Cu**	2	**0.452**	ug/l	0.45	13.4	15000	45	P	
66	**Zn**	2	**1.927**	ug/l	1.93	12.5	15000	45	P	
75	**As**	2	**22.780**	ug/l	22.78	4.5	4500	74	P	
78	**Se**	2	**0.052**	ug/l	0.05	1051.1	4500	74	P	
88	**Sr**	3	**199.400**	ug/l	199.40	1.1	4500	74	A	
95	**Mo**	3	**1.697**	ug/l	1.70	3.6	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.00	85.2	450	103	P	
111	**Cd**	3	**0.013**	ug/l	0.01	66.1	900	103	P	
118	**Sn**	3	**0.071**	ug/l	0.07	17.1	4500	103	P	
121	**Sb**	3	**0.043**	ug/l	0.04	5.9	4500	103	P	
135	**Ba**	3	**15.530**	ug/l	15.53	0.6	4500	103	P	
200	**Hg**	3	**0.180**	ug/l	0.18	10.9	45	209	P	
205	**Tl**	3	**0.090**	ug/l	0.09	11.6	4500	209	P	
208	**Pb**	3	**0.054**	ug/l	0.05	8.1	4500	209	P	
238	**U**	3	**0.361**	ug/l	0.36	2.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2510463	1.13	5119000	**49.0**	30	-	120	
45	Sc	1	148848	1.91	341400	**43.6**	30	-	120	
45	Sc	2	195755	2.20	273900	**71.5**	30	-	120	
74	Ge	1	137828	1.36	283600	**48.6**	30	-	120	
74	Ge	2	357200	1.73	422600	**84.5**	30	-	120	
74	Ge	3	1368398	0.72	1674000	**81.7**	30	-	120	
103	Rh	2	617046	1.06	814900	**75.7**	30	-	120	
103	Rh	3	1196044	0.59	1535000	**77.9**	30	-	120	
165	Ho	3	2840662	0.68	3236000	**87.8**	30	-	120	
175	Lu	3	3199509	1.28	3584000	**89.3**	30	-	120	
209	Bi	3	6404370	0.25	7619000	**84.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\106SMPL.D\106SMPL.D#
Date Acquired: May 28 2010 12:48 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19439-E-1-A Vial Number: 3307
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.015**	ug/l	0.07	26.0	450	6	P	
23	**Na**	2	**16680.000**	ug/l	83,400.00	1.1	450000	45	A	
24	**Mg**	2	**13910.000**	ug/l	69,550.00	1.0	450000	45	A	
27	**Al**	2	**254.500**	ug/l	1,272.50	2.7	450000	45	P	
31	**P**	2	**9.509**	ug/l	47.55	16.7	450000	45	P	
39	**K**	2	**4003.000**	ug/l	20,015.00	0.4	450000	45	A	
44	**Ca**	2	**31860.000**	ug/l	159,300.00	0.3	450000	45	P	
47	**Ti**	2	**15.960**	ug/l	79.80	7.5	4500	45	P	
51	**V**	2	**1.779**	ug/l	8.90	0.6	4500	45	P	
52	**Cr**	2	**0.374**	ug/l	1.87	3.7	4500	45	P	
54	**Fe**	2	**321.700**	ug/l	1,608.50	2.3	450000	74	P	
55	**Mn**	2	**220.800**	ug/l	1,104.00	0.5	15000	45	P	
59	**Co**	2	**0.372**	ug/l	1.86	4.2	4500	45	P	
60	**Ni**	2	**1.295**	ug/l	6.48	7.0	15000	45	P	
63	**Cu**	2	**1.099**	ug/l	5.50	0.6	15000	45	P	
66	**Zn**	2	**1.532**	ug/l	7.66	3.3	15000	45	P	
75	**As**	2	**0.415**	ug/l	2.08	9.7	4500	74	P	
78	**Se**	2	**0.024**	ug/l	0.12	1094.3	4500	74	P	
88	**Sr**	3	**307.200**	ug/l	1,536.00	0.4	4500	74	A	
95	**Mo**	3	**1.584**	ug/l	7.92	2.8	4500	74	P	
107	**Ag**	3	**0.002**	ug/l	0.01	177.5	450	103	P	
111	**Cd**	3	**0.024**	ug/l	0.12	48.5	900	103	P	
118	**Sn**	3	**0.032**	ug/l	0.16	13.2	4500	103	P	
121	**Sb**	3	**0.071**	ug/l	0.36	12.4	4500	103	P	
135	**Ba**	3	**51.090**	ug/l	255.45	0.8	4500	103	P	
200	**Hg**	3	**0.345**	ug/l	1.72	3.1	45	209	P	
205	**Tl**	3	**0.069**	ug/l	0.35	1.8	4500	209	P	
208	**Pb**	3	**0.255**	ug/l	1.27	6.3	4500	209	P	
238	**U**	3	**5.300**	ug/l	26.50	1.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3203680	1.05	5119000	**62.6**	30	-	120	
45	Sc	1	168336	0.37	341400	**49.3**	30	-	120	
45	Sc	2	220200	0.11	273900	**80.4**	30	-	120	
74	Ge	1	148093	1.88	283600	**52.2**	30	-	120	
74	Ge	2	368076	0.65	422600	**87.1**	30	-	120	
74	Ge	3	1429379	0.68	1674000	**85.4**	30	-	120	
103	Rh	2	675518	1.31	814900	**82.9**	30	-	120	
103	Rh	3	1305146	1.27	1535000	**85.0**	30	-	120	
165	Ho	3	3075171	0.67	3236000	**95.0**	30	-	120	
175	Lu	3	3400399	0.76	3584000	**94.9**	30	-	120	
209	Bi	3	6885431	0.18	7619000	**90.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\107SMPL.D\107SMPL.D#
Date Acquired: May 28 2010 12:55 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19439-E-2-A Vial Number: 3308
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.00	240.5	450	6	P	
23	**Na**	2	**19900.000**	ug/l	99,500.00	0.8	450000	45	A	
24	**Mg**	2	**9675.000**	ug/l	48,375.00	1.0	450000	45	A	
27	**Al**	2	**2.378**	ug/l	11.89	20.4	450000	45	P	
31	**P**	2	**1.062**	ug/l	5.31	245.1	450000	45	P	
39	**K**	2	**915.800**	ug/l	4,579.00	0.5	450000	45	P	
44	**Ca**	2	**21140.000**	ug/l	105,700.00	1.1	450000	45	P	
47	**Ti**	2	**0.150**	ug/l	0.75	32.6	4500	45	P	
51	**V**	2	**5.396**	ug/l	26.98	5.3	4500	45	P	
52	**Cr**	2	**0.090**	ug/l	0.45	8.5	4500	45	P	
54	**Fe**	2	**1.792**	ug/l	8.96	16.8	450000	74	P	
55	**Mn**	2	**9.074**	ug/l	45.37	1.0	15000	45	P	
59	**Co**	2	**0.079**	ug/l	0.40	3.7	4500	45	P	
60	**Ni**	2	**0.947**	ug/l	4.73	3.7	15000	45	P	
63	**Cu**	2	**1.080**	ug/l	5.40	14.2	15000	45	P	
66	**Zn**	2	**1.489**	ug/l	7.45	8.8	15000	45	P	
75	**As**	2	**1.380**	ug/l	6.90	4.9	4500	74	P	
78	**Se**	2	**-0.411**	ug/l	-2.06	96.2	4500	74	P	
88	**Sr**	3	**141.900**	ug/l	709.50	1.2	4500	74	A	
95	**Mo**	3	**1.454**	ug/l	7.27	1.4	4500	74	P	
107	**Ag**	3	**-0.002**	ug/l	-0.01	114.7	450	103	P	
111	**Cd**	3	**0.104**	ug/l	0.52	15.8	900	103	P	
118	**Sn**	3	**0.038**	ug/l	0.19	25.0	4500	103	P	
121	**Sb**	3	**0.072**	ug/l	0.36	4.5	4500	103	P	
135	**Ba**	3	**17.390**	ug/l	86.95	1.1	4500	103	P	
200	**Hg**	3	**0.360**	ug/l	1.80	7.5	45	209	P	
205	**Tl**	3	**0.054**	ug/l	0.27	15.9	4500	209	P	
208	**Pb**	3	**0.047**	ug/l	0.23	6.0	4500	209	P	
238	**U**	3	**3.998**	ug/l	19.99	1.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3268715	1.45	5119000	**63.9**	30	-	120	
45	Sc	1	167422	1.51	341400	**49.0**	30	-	120	
45	Sc	2	224367	0.29	273900	**81.9**	30	-	120	
74	Ge	1	147233	0.67	283600	**51.9**	30	-	120	
74	Ge	2	370369	0.25	422600	**87.6**	30	-	120	
74	Ge	3	1459816	2.12	1674000	**87.2**	30	-	120	
103	Rh	2	683800	1.69	814900	**83.9**	30	-	120	
103	Rh	3	1322267	0.69	1535000	**86.1**	30	-	120	
165	Ho	3	3063441	0.46	3236000	**94.7**	30	-	120	
175	Lu	3	3419526	0.38	3584000	**95.4**	30	-	120	
209	Bi	3	6909696	0.27	7619000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\108SMPL.D\108SMPL.D#
Date Acquired: May 28 2010 01:03 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-1-A Vial Number: 3309
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.00	319.6	450	6	P	
23	**Na**	2	**16130.000**	ug/l	80,650.00	1.8	450000	45	A	
24	**Mg**	2	**7041.000**	ug/l	35,205.00	2.2	450000	45	A	
27	**Al**	2	**8.616**	ug/l	43.08	4.1	450000	45	P	
31	**P**	2	**-0.945**	ug/l	-4.73	145.5	450000	45	P	
39	**K**	2	**1574.000**	ug/l	7,870.00	1.9	450000	45	P	
44	**Ca**	2	**22930.000**	ug/l	114,650.00	2.5	450000	45	P	
47	**Ti**	2	**0.179**	ug/l	0.89	9.4	4500	45	P	
51	**V**	2	**3.289**	ug/l	16.45	4.6	4500	45	P	
52	**Cr**	2	**0.103**	ug/l	0.52	27.9	4500	45	P	
54	**Fe**	2	**3.685**	ug/l	18.43	15.1	450000	74	P	
55	**Mn**	2	**9.175**	ug/l	45.88	3.6	15000	45	P	
59	**Co**	2	**0.064**	ug/l	0.32	2.9	4500	45	P	
60	**Ni**	2	**0.645**	ug/l	3.23	19.5	15000	45	P	
63	**Cu**	2	**1.031**	ug/l	5.16	2.7	15000	45	P	
66	**Zn**	2	**1.051**	ug/l	5.26	16.5	15000	45	P	
75	**As**	2	**1.235**	ug/l	6.18	5.4	4500	74	P	
78	**Se**	2	**0.098**	ug/l	0.49	303.3	4500	74	P	
88	**Sr**	3	**126.300**	ug/l	631.50	1.8	4500	74	A	
95	**Mo**	3	**0.982**	ug/l	4.91	2.2	4500	74	P	
107	**Ag**	3	**-0.002**	ug/l	-0.01	34.2	450	103	P	
111	**Cd**	3	**0.021**	ug/l	0.11	32.0	900	103	P	
118	**Sn**	3	**0.090**	ug/l	0.45	20.0	4500	103	P	
121	**Sb**	3	**0.056**	ug/l	0.28	11.7	4500	103	P	
135	**Ba**	3	**23.740**	ug/l	118.70	3.3	4500	103	P	
200	**Hg**	3	**0.392**	ug/l	1.96	1.0	45	209	P	
205	**Tl**	3	**0.042**	ug/l	0.21	15.8	4500	209	P	
208	**Pb**	3	**0.016**	ug/l	0.08	10.7	4500	209	P	
238	**U**	3	**3.419**	ug/l	17.10	1.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3305976	3.93	5119000	**64.6**	30	-	120	
45	Sc	1	172153	0.61	341400	**50.4**	30	-	120	
45	Sc	2	225435	1.99	273900	**82.3**	30	-	120	
74	Ge	1	152304	1.22	283600	**53.7**	30	-	120	
74	Ge	2	373425	0.68	422600	**88.4**	30	-	120	
74	Ge	3	1492709	1.95	1674000	**89.2**	30	-	120	
103	Rh	2	701327	0.90	814900	**86.1**	30	-	120	
103	Rh	3	1346082	1.33	1535000	**87.7**	30	-	120	
165	Ho	3	3063200	0.26	3236000	**94.7**	30	-	120	
175	Lu	3	3396516	0.72	3584000	**94.8**	30	-	120	
209	Bi	3	7067409	0.94	7619000	**92.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\109SMPL.D\109SMPL.D#
Date Acquired: May 28 2010 01:10 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-2-A Vial Number: 3310
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.02	103.1	450	6	P	
23	**Na**	2	**6789.000**	ug/l	33,945.00	1.1	450000	45	A	
24	**Mg**	2	**9424.000**	ug/l	47,120.00	1.5	450000	45	A	
27	**Al**	2	**5.676**	ug/l	28.38	10.2	450000	45	P	
31	**P**	2	**43.750**	ug/l	218.75	6.5	450000	45	P	
39	**K**	2	**2080.000**	ug/l	10,400.00	0.6	450000	45	P	
44	**Ca**	2	**18010.000**	ug/l	90,050.00	1.0	450000	45	P	
47	**Ti**	2	**0.420**	ug/l	2.10	7.9	4500	45	P	
51	**V**	2	**0.530**	ug/l	2.65	14.2	4500	45	P	
52	**Cr**	2	**0.071**	ug/l	0.35	34.3	4500	45	P	
54	**Fe**	2	**1168.000**	ug/l	5,840.00	0.9	450000	74	P	
55	**Mn**	2	**1224.000**	ug/l	6,120.00	0.4	15000	45	A	
59	**Co**	2	**0.357**	ug/l	1.78	3.5	4500	45	P	
60	**Ni**	2	**1.229**	ug/l	6.15	8.5	15000	45	P	
63	**Cu**	2	**0.052**	ug/l	0.26	62.4	15000	45	P	
66	**Zn**	2	**0.837**	ug/l	4.19	15.8	15000	45	P	
75	**As**	2	**4.021**	ug/l	20.11	3.1	4500	74	P	
78	**Se**	2	**-0.077**	ug/l	-0.38	191.4	4500	74	P	
88	**Sr**	3	**127.900**	ug/l	639.50	1.0	4500	74	A	
95	**Mo**	3	**1.118**	ug/l	5.59	4.4	4500	74	P	
107	**Ag**	3	**-0.001**	ug/l	0.00	76.1	450	103	P	
111	**Cd**	3	**0.006**	ug/l	0.03	113.6	900	103	P	
118	**Sn**	3	**0.029**	ug/l	0.14	6.5	4500	103	P	
121	**Sb**	3	**0.016**	ug/l	0.08	32.6	4500	103	P	
135	**Ba**	3	**32.450**	ug/l	162.25	3.0	4500	103	P	
200	**Hg**	3	**0.316**	ug/l	1.58	5.1	45	209	P	
205	**Tl**	3	**0.030**	ug/l	0.15	18.1	4500	209	P	
208	**Pb**	3	**0.011**	ug/l	0.05	23.8	4500	209	P	
238	**U**	3	**0.511**	ug/l	2.56	1.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3297505	0.50	5119000	**64.4**	30	-	120	
45	Sc	1	181113	1.38	341400	**53.0**	30	-	120	
45	Sc	2	227648	0.86	273900	**83.1**	30	-	120	
74	Ge	1	158623	2.63	283600	**55.9**	30	-	120	
74	Ge	2	375349	1.17	422600	**88.8**	30	-	120	
74	Ge	3	1487475	0.16	1674000	**88.9**	30	-	120	
103	Rh	2	703260	1.18	814900	**86.3**	30	-	120	
103	Rh	3	1354958	1.70	1535000	**88.3**	30	-	120	
165	Ho	3	3054120	1.51	3236000	**94.4**	30	-	120	
175	Lu	3	3409881	0.24	3584000	**95.1**	30	-	120	
209	Bi	3	7013806	0.79	7619000	**92.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\110SMPL.D\110SMPL.D#
Date Acquired: May 28 2010 01:17 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**54.790**	ug/l	54.79	1.4	450	6	P	
23	**Na**	2	**4915.000**	ug/l	4,915.00	0.9	450000	45	A	
24	**Mg**	2	**5030.000**	ug/l	5,030.00	2.0	450000	45	A	
27	**Al**	2	**494.400**	ug/l	494.40	0.1	450000	45	P	
31	**P**	2	**4908.000**	ug/l	4,908.00	1.2	450000	45	P	
39	**K**	2	**5259.000**	ug/l	5,259.00	2.2	450000	45	A	
44	**Ca**	2	**5226.000**	ug/l	5,226.00	1.3	450000	45	P	
47	**Ti**	2	**51.980**	ug/l	51.98	1.5	4500	45	P	
51	**V**	2	**52.220**	ug/l	52.22	0.8	4500	45	P	
52	**Cr**	2	**52.040**	ug/l	52.04	0.6	4500	45	P	
54	**Fe**	2	**5107.000**	ug/l	5,107.00	1.3	450000	74	P	
55	**Mn**	2	**54.060**	ug/l	54.06	0.3	15000	45	P	
59	**Co**	2	**53.210**	ug/l	53.21	0.8	4500	45	P	
60	**Ni**	2	**53.540**	ug/l	53.54	1.2	15000	45	P	
63	**Cu**	2	**53.570**	ug/l	53.57	1.8	15000	45	P	
66	**Zn**	2	**54.090**	ug/l	54.09	3.6	15000	45	P	
75	**As**	2	**51.630**	ug/l	51.63	0.8	4500	74	P	
78	**Se**	2	**51.640**	ug/l	51.64	1.4	4500	74	P	
88	**Sr**	3	**53.930**	ug/l	53.93	1.0	4500	74	P	
95	**Mo**	3	**53.510**	ug/l	53.51	0.9	4500	74	P	
107	**Ag**	3	**52.610**	ug/l	52.61	1.3	450	103	P	
111	**Cd**	3	**53.190**	ug/l	53.19	1.6	900	103	P	
118	**Sn**	3	**52.910**	ug/l	52.91	1.7	4500	103	P	
121	**Sb**	3	**53.240**	ug/l	53.24	1.3	4500	103	P	
135	**Ba**	3	**53.930**	ug/l	53.93	1.1	4500	103	P	
200	**Hg**	3	**2.967**	ug/l	2.97	0.7	45	209	P	
205	**Tl**	3	**52.200**	ug/l	52.20	1.5	4500	209	P	
208	**Pb**	3	**52.780**	ug/l	52.78	1.7	4500	209	P	
238	**U**	3	**51.550**	ug/l	51.55	1.7	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3551934	2.36	5119000	**69.4**	30	-	120	
45	Sc	1	180625	1.45	341400	**52.9**	30	-	120	
45	Sc	2	234181	0.86	273900	**85.5**	30	-	120	
74	Ge	1	157362	0.32	283600	**55.5**	30	-	120	
74	Ge	2	382744	0.44	422600	**90.6**	30	-	120	
74	Ge	3	1539906	0.59	1674000	**92.0**	30	-	120	
103	Rh	2	726195	1.25	814900	**89.1**	30	-	120	
103	Rh	3	1410816	0.49	1535000	**91.9**	30	-	120	
165	Ho	3	3129227	1.03	3236000	**96.7**	30	-	120	
175	Lu	3	3472104	0.50	3584000	**96.9**	30	-	120	
209	Bi	3	7243321	0.57	7619000	**95.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\111SMPL.D\111SMPL.D#
Date Acquired: May 28 2010 01:24 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.012**	ug/l	0.01	45.1	450	6	P	
23	**Na**	2	**7.854**	ug/l	7.85	33.3	450000	45	P	
24	**Mg**	2	**2.762**	ug/l	2.76	13.1	450000	45	P	
27	**Al**	2	**0.762**	ug/l	0.76	33.4	450000	45	P	
31	**P**	2	**-4.267**	ug/l	-4.27	149.5	450000	45	P	
39	**K**	2	**19.610**	ug/l	19.61	28.8	450000	45	P	
44	**Ca**	2	**4.333**	ug/l	4.33	35.9	450000	45	P	
47	**Ti**	2	**0.074**	ug/l	0.07	23.0	4500	45	P	
51	**V**	2	**-0.025**	ug/l	-0.02	146.9	4500	45	P	
52	**Cr**	2	**-0.009**	ug/l	-0.01	290.1	4500	45	P	
54	**Fe**	2	**1.624**	ug/l	1.62	19.9	450000	74	P	
55	**Mn**	2	**0.212**	ug/l	0.21	10.1	15000	45	P	
59	**Co**	2	**0.018**	ug/l	0.02	30.0	4500	45	P	
60	**Ni**	2	**0.122**	ug/l	0.12	52.8	15000	45	P	
63	**Cu**	2	**0.011**	ug/l	0.01	57.1	15000	45	P	
66	**Zn**	2	**0.074**	ug/l	0.07	47.7	15000	45	P	
75	**As**	2	**-0.046**	ug/l	-0.05	57.0	4500	74	P	
78	**Se**	2	**0.056**	ug/l	0.06	1103.0	4500	74	P	
88	**Sr**	3	**0.011**	ug/l	0.01	20.1	4500	74	P	
95	**Mo**	3	**0.015**	ug/l	0.01	24.0	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.01	70.8	450	103	P	
111	**Cd**	3	**0.004**	ug/l	0.00	236.2	900	103	P	
118	**Sn**	3	**0.023**	ug/l	0.02	6.0	4500	103	P	
121	**Sb**	3	**0.013**	ug/l	0.01	15.6	4500	103	P	
135	**Ba**	3	**0.005**	ug/l	0.01	65.8	4500	103	P	
200	**Hg**	3	**0.403**	ug/l	0.40	3.2	45	209	P	
205	**Tl**	3	**0.375**	ug/l	0.38	2.8	4500	209	P	
208	**Pb**	3	**0.012**	ug/l	0.01	35.4	4500	209	P	
238	**U**	3	**0.006**	ug/l	0.01	56.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3569564	2.08	5119000	**69.7**	30	-	120	
45	Sc	1	177489	0.21	341400	**52.0**	30	-	120	
45	Sc	2	235042	1.17	273900	**85.8**	30	-	120	
74	Ge	1	154115	0.48	283600	**54.3**	30	-	120	
74	Ge	2	392497	0.19	422600	**92.9**	30	-	120	
74	Ge	3	1543168	0.68	1674000	**92.2**	30	-	120	
103	Rh	2	760942	0.77	814900	**93.4**	30	-	120	
103	Rh	3	1450776	0.96	1535000	**94.5**	30	-	120	
165	Ho	3	3121776	0.93	3236000	**96.5**	30	-	120	
175	Lu	3	3414452	0.42	3584000	**95.3**	30	-	120	
209	Bi	3	7408655	0.21	7619000	**97.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\112SMPL.D\112SMPL.D#
Date Acquired: May 28 2010 01:31 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-3-A Vial Number: 3401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.013**	ug/l	0.07	50.4	450	6	P	
23	**Na**	2	**38300.000**	ug/l	191,500.00	1.5	450000	45	A	
24	**Mg**	2	**1884.000**	ug/l	9,420.00	1.0	450000	45	P	
27	**Al**	2	**165.800**	ug/l	829.00	2.1	450000	45	P	
31	**P**	2	**35.060**	ug/l	175.30	22.3	450000	45	P	
39	**K**	2	**1177.000**	ug/l	5,885.00	0.6	450000	45	P	
44	**Ca**	2	**6673.000**	ug/l	33,365.00	1.6	450000	45	P	
47	**Ti**	2	**7.076**	ug/l	35.38	9.0	4500	45	P	
51	**V**	2	**16.480**	ug/l	82.40	1.8	4500	45	P	
52	**Cr**	2	**0.786**	ug/l	3.93	4.0	4500	45	P	
54	**Fe**	2	**172.200**	ug/l	861.00	3.5	450000	74	P	
55	**Mn**	2	**8.120**	ug/l	40.60	0.4	15000	45	P	
59	**Co**	2	**0.128**	ug/l	0.64	6.7	4500	45	P	
60	**Ni**	2	**0.475**	ug/l	2.37	24.3	15000	45	P	
63	**Cu**	2	**0.685**	ug/l	3.42	1.4	15000	45	P	
66	**Zn**	2	**1.031**	ug/l	5.16	4.6	15000	45	P	
75	**As**	2	**15.460**	ug/l	77.30	0.7	4500	74	P	
78	**Se**	2	**0.149**	ug/l	0.75	623.2	4500	74	P	
88	**Sr**	3	**38.250**	ug/l	191.25	1.7	4500	74	P	
95	**Mo**	3	**8.363**	ug/l	41.82	3.5	4500	74	P	
107	**Ag**	3	**0.006**	ug/l	0.03	32.1	450	103	P	
111	**Cd**	3	**0.010**	ug/l	0.05	273.9	900	103	P	
118	**Sn**	3	**0.044**	ug/l	0.22	9.8	4500	103	P	
121	**Sb**	3	**0.142**	ug/l	0.71	8.0	4500	103	P	
135	**Ba**	3	**16.150**	ug/l	80.75	1.2	4500	103	P	
200	**Hg**	3	**0.276**	ug/l	1.38	4.7	45	209	P	
205	**Tl**	3	**0.150**	ug/l	0.75	2.9	4500	209	P	
208	**Pb**	3	**0.159**	ug/l	0.79	6.0	4500	209	P	
238	**U**	3	**5.219**	ug/l	26.10	1.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3239524	2.03	5119000	**63.3**	30	-	120	
45	Sc	1	177225	2.48	341400	**51.9**	30	-	120	
45	Sc	2	229694	1.73	273900	**83.9**	30	-	120	
74	Ge	1	154859	1.19	283600	**54.6**	30	-	120	
74	Ge	2	385404	0.78	422600	**91.2**	30	-	120	
74	Ge	3	1514110	3.19	1674000	**90.4**	30	-	120	
103	Rh	2	708166	1.76	814900	**86.9**	30	-	120	
103	Rh	3	1358630	2.18	1535000	**88.5**	30	-	120	
165	Ho	3	3082939	1.13	3236000	**95.3**	30	-	120	
175	Lu	3	3414361	0.67	3584000	**95.3**	30	-	120	
209	Bi	3	7114725	1.53	7619000	**93.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\113SMPL.D\113SMPL.D#
Date Acquired: May 28 2010 01:38 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-4-A Vial Number: 3402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.02	23.9	450	6	P	
23	**Na**	2	**23370.000**	ug/l	116,850.00	1.6	450000	45	A	
24	**Mg**	2	**13060.000**	ug/l	65,300.00	2.1	450000	45	A	
27	**Al**	2	**17.480**	ug/l	87.40	5.7	450000	45	P	
31	**P**	2	**5.893**	ug/l	29.47	74.5	450000	45	P	
39	**K**	2	**5870.000**	ug/l	29,350.00	1.0	450000	45	A	
44	**Ca**	2	**29390.000**	ug/l	146,950.00	2.0	450000	45	P	
47	**Ti**	2	**1.537**	ug/l	7.69	12.9	4500	45	P	
51	**V**	2	**1.907**	ug/l	9.54	8.0	4500	45	P	
52	**Cr**	2	**0.127**	ug/l	0.63	31.4	4500	45	P	
54	**Fe**	2	**19.600**	ug/l	98.00	7.6	450000	74	P	
55	**Mn**	2	**127.300**	ug/l	636.50	0.8	15000	45	P	
59	**Co**	2	**0.691**	ug/l	3.45	2.0	4500	45	P	
60	**Ni**	2	**5.601**	ug/l	28.01	5.3	15000	45	P	
63	**Cu**	2	**1.954**	ug/l	9.77	1.9	15000	45	P	
66	**Zn**	2	**1.592**	ug/l	7.96	2.8	15000	45	P	
75	**As**	2	**0.621**	ug/l	3.11	19.7	4500	74	P	
78	**Se**	2	**0.006**	ug/l	0.03	4213.8	4500	74	P	
88	**Sr**	3	**238.800**	ug/l	1,194.00	1.3	4500	74	A	
95	**Mo**	3	**7.080**	ug/l	35.40	0.6	4500	74	P	
107	**Ag**	3	**0.002**	ug/l	0.01	178.8	450	103	P	
111	**Cd**	3	**0.101**	ug/l	0.51	12.0	900	103	P	
118	**Sn**	3	**0.039**	ug/l	0.19	43.5	4500	103	P	
121	**Sb**	3	**0.154**	ug/l	0.77	4.9	4500	103	P	
135	**Ba**	3	**39.760**	ug/l	198.80	2.4	4500	103	P	
200	**Hg**	3	**0.271**	ug/l	1.36	2.4	45	209	P	
205	**Tl**	3	**0.099**	ug/l	0.49	6.8	4500	209	P	
208	**Pb**	3	**0.122**	ug/l	0.61	4.4	4500	209	P	
238	**U**	3	**6.717**	ug/l	33.59	0.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3310432	0.91	5119000	**64.7**	30	-	120	
45	Sc	1	173935	0.95	341400	**50.9**	30	-	120	
45	Sc	2	224143	1.62	273900	**81.8**	30	-	120	
74	Ge	1	150688	0.71	283600	**53.1**	30	-	120	
74	Ge	2	376290	1.26	422600	**89.0**	30	-	120	
74	Ge	3	1480841	0.31	1674000	**88.5**	30	-	120	
103	Rh	2	686448	2.13	814900	**84.2**	30	-	120	
103	Rh	3	1339115	0.85	1535000	**87.2**	30	-	120	
165	Ho	3	3056862	0.24	3236000	**94.5**	30	-	120	
175	Lu	3	3375010	0.82	3584000	**94.2**	30	-	120	
209	Bi	3	6837098	1.41	7619000	**89.7**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\114SMPL.D\114SMPL.D#
Date Acquired: May 28 2010 01:45 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19402-H-2-A Vial Number: 3403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.000**	ug/l	0.00	599.4	450	6	P	
23	**Na**	2	**5209.000**	ug/l	26,045.00	2.1	450000	45	A	
24	**Mg**	2	**3791.000**	ug/l	18,955.00	1.7	450000	45	A	
27	**Al**	2	**1.721**	ug/l	8.61	12.2	450000	45	P	
31	**P**	2	**2.984**	ug/l	14.92	9.4	450000	45	P	
39	**K**	2	**922.700**	ug/l	4,613.50	1.3	450000	45	P	
44	**Ca**	2	**13660.000**	ug/l	68,300.00	0.8	450000	45	P	
47	**Ti**	2	**0.057**	ug/l	0.28	16.1	4500	45	P	
51	**V**	2	**2.124**	ug/l	10.62	4.5	4500	45	P	
52	**Cr**	2	**0.070**	ug/l	0.35	85.5	4500	45	P	
54	**Fe**	2	**2.712**	ug/l	13.56	16.5	450000	74	P	
55	**Mn**	2	**36.120**	ug/l	180.60	0.4	15000	45	P	
59	**Co**	2	**0.059**	ug/l	0.29	13.0	4500	45	P	
60	**Ni**	2	**0.835**	ug/l	4.17	7.5	15000	45	P	
63	**Cu**	2	**0.517**	ug/l	2.58	2.5	15000	45	P	
66	**Zn**	2	**3.217**	ug/l	16.09	8.2	15000	45	P	
75	**As**	2	**0.505**	ug/l	2.52	6.6	4500	74	P	
78	**Se**	2	**-0.337**	ug/l	-1.68	42.2	4500	74	P	
88	**Sr**	3	**69.430**	ug/l	347.15	1.3	4500	74	P	
95	**Mo**	3	**0.689**	ug/l	3.45	7.5	4500	74	P	
107	**Ag**	3	**-0.002**	ug/l	-0.01	86.6	450	103	P	
111	**Cd**	3	**0.006**	ug/l	0.03	112.5	900	103	P	
118	**Sn**	3	**0.018**	ug/l	0.09	69.4	4500	103	P	
121	**Sb**	3	**0.025**	ug/l	0.13	31.3	4500	103	P	
135	**Ba**	3	**19.060**	ug/l	95.30	2.8	4500	103	P	
200	**Hg**	3	**0.253**	ug/l	1.27	3.4	45	209	P	
205	**Tl**	3	**0.069**	ug/l	0.35	8.3	4500	209	P	
208	**Pb**	3	**0.516**	ug/l	2.58	1.2	4500	209	P	
238	**U**	3	**0.818**	ug/l	4.09	2.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3269546	0.82	5119000	**63.9**	30	-	120	
45	Sc	1	179985	1.36	341400	**52.7**	30	-	120	
45	Sc	2	228862	1.19	273900	**83.6**	30	-	120	
74	Ge	1	155290	2.23	283600	**54.8**	30	-	120	
74	Ge	2	379080	1.28	422600	**89.7**	30	-	120	
74	Ge	3	1490988	0.96	1674000	**89.1**	30	-	120	
103	Rh	2	710524	1.09	814900	**87.2**	30	-	120	
103	Rh	3	1368403	1.58	1535000	**89.1**	30	-	120	
165	Ho	3	3073944	0.57	3236000	**95.0**	30	-	120	
175	Lu	3	3448063	1.09	3584000	**96.2**	30	-	120	
209	Bi	3	7150862	0.53	7619000	**93.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\115SMPL.D\115SMPL.D#
Date Acquired: May 28 2010 01:53 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19402-H-3-A Vial Number: 3404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.00	148.0	450	6	P	
23	**Na**	2	**5099.000**	ug/l	25,495.00	0.4	450000	45	A	
24	**Mg**	2	**3717.000**	ug/l	18,585.00	1.2	450000	45	A	
27	**Al**	2	**3.049**	ug/l	15.25	5.7	450000	45	P	
31	**P**	2	**1.953**	ug/l	9.77	330.6	450000	45	P	
39	**K**	2	**890.200**	ug/l	4,451.00	1.1	450000	45	P	
44	**Ca**	2	**13470.000**	ug/l	67,350.00	0.4	450000	45	P	
47	**Ti**	2	**0.113**	ug/l	0.56	27.7	4500	45	P	
51	**V**	2	**2.117**	ug/l	10.59	9.1	4500	45	P	
52	**Cr**	2	**0.064**	ug/l	0.32	51.7	4500	45	P	
54	**Fe**	2	**6.608**	ug/l	33.04	4.7	450000	74	P	
55	**Mn**	2	**35.110**	ug/l	175.55	0.6	15000	45	P	
59	**Co**	2	**0.072**	ug/l	0.36	10.3	4500	45	P	
60	**Ni**	2	**0.764**	ug/l	3.82	10.0	15000	45	P	
63	**Cu**	2	**0.261**	ug/l	1.31	15.0	15000	45	P	
66	**Zn**	2	**3.021**	ug/l	15.11	9.2	15000	45	P	
75	**As**	2	**0.471**	ug/l	2.36	8.9	4500	74	P	
78	**Se**	2	**0.165**	ug/l	0.82	443.8	4500	74	P	
88	**Sr**	3	**66.510**	ug/l	332.55	5.5	4500	74	P	
95	**Mo**	3	**0.600**	ug/l	3.00	5.8	4500	74	P	
107	**Ag**	3	**-0.002**	ug/l	-0.01	282.9	450	103	P	
111	**Cd**	3	**0.008**	ug/l	0.04	59.4	900	103	P	
118	**Sn**	3	**0.018**	ug/l	0.09	90.7	4500	103	P	
121	**Sb**	3	**0.023**	ug/l	0.12	25.2	4500	103	P	
135	**Ba**	3	**17.610**	ug/l	88.05	7.9	4500	103	P	
200	**Hg**	3	**0.242**	ug/l	1.21	13.6	45	209	P	
205	**Tl**	3	**0.050**	ug/l	0.25	24.6	4500	209	P	
208	**Pb**	3	**0.024**	ug/l	0.12	12.4	4500	209	P	
238	**U**	3	**0.616**	ug/l	3.08	8.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3364238	2.36	5119000	**65.7**	30	-	120	
45	Sc	1	182483	1.85	341400	**53.5**	30	-	120	
45	Sc	2	227157	0.71	273900	**82.9**	30	-	120	
74	Ge	1	158611	1.73	283600	**55.9**	30	-	120	
74	Ge	2	382069	0.91	422600	**90.4**	30	-	120	
74	Ge	3	1512956	3.55	1674000	**90.4**	30	-	120	
103	Rh	2	712739	0.90	814900	**87.5**	30	-	120	
103	Rh	3	1424914	6.18	1535000	**92.8**	30	-	120	
165	Ho	3	3191575	7.39	3236000	**98.6**	30	-	120	
175	Lu	3	3576149	5.85	3584000	**99.8**	30	-	120	
209	Bi	3	7331912	4.98	7619000	**96.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\116SMPL.D\116SMPL.D#
Date Acquired: May 28 2010 02:00 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**55.440**	ug/l	55.44	2.1	450	6	P	
23	**Na**	2	**4975.000**	ug/l	4,975.00	2.7	450000	45	A	
24	**Mg**	2	**5040.000**	ug/l	5,040.00	0.3	450000	45	A	
27	**Al**	2	**493.300**	ug/l	493.30	0.3	450000	45	P	
31	**P**	2	**4875.000**	ug/l	4,875.00	1.4	450000	45	P	
39	**K**	2	**5195.000**	ug/l	5,195.00	1.3	450000	45	A	
44	**Ca**	2	**5230.000**	ug/l	5,230.00	2.5	450000	45	P	
47	**Ti**	2	**52.020**	ug/l	52.02	1.1	4500	45	P	
51	**V**	2	**52.640**	ug/l	52.64	0.9	4500	45	P	
52	**Cr**	2	**53.040**	ug/l	53.04	1.1	4500	45	P	
54	**Fe**	2	**5115.000**	ug/l	5,115.00	0.5	450000	74	P	
55	**Mn**	2	**53.940**	ug/l	53.94	0.7	15000	45	P	
59	**Co**	2	**53.420**	ug/l	53.42	0.7	4500	45	P	
60	**Ni**	2	**53.810**	ug/l	53.81	1.7	15000	45	P	
63	**Cu**	2	**53.570**	ug/l	53.57	1.2	15000	45	P	
66	**Zn**	2	**54.530**	ug/l	54.53	0.8	15000	45	P	
75	**As**	2	**51.990**	ug/l	51.99	1.4	4500	74	P	
78	**Se**	2	**54.780**	ug/l	54.78	4.7	4500	74	P	
88	**Sr**	3	**54.090**	ug/l	54.09	1.7	4500	74	P	
95	**Mo**	3	**53.670**	ug/l	53.67	2.4	4500	74	P	
107	**Ag**	3	**52.430**	ug/l	52.43	1.9	450	103	P	
111	**Cd**	3	**52.610**	ug/l	52.61	2.8	900	103	P	
118	**Sn**	3	**53.520**	ug/l	53.52	2.0	4500	103	P	
121	**Sb**	3	**53.320**	ug/l	53.32	2.3	4500	103	P	
135	**Ba**	3	**54.280**	ug/l	54.28	2.0	4500	103	P	
200	**Hg**	3	**2.986**	ug/l	2.99	0.5	45	209	P	
205	**Tl**	3	**52.930**	ug/l	52.93	0.8	4500	209	P	
208	**Pb**	3	**53.550**	ug/l	53.55	1.1	4500	209	P	
238	**U**	3	**51.940**	ug/l	51.94	0.7	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3514483	1.10	5119000	**68.7**	30	-	120	
45	Sc	1	192352	2.12	341400	**56.3**	30	-	120	
45	Sc	2	234713	0.99	273900	**85.7**	30	-	120	
74	Ge	1	165627	1.32	283600	**58.4**	30	-	120	
74	Ge	2	386289	0.58	422600	**91.4**	30	-	120	
74	Ge	3	1540505	0.90	1674000	**92.0**	30	-	120	
103	Rh	2	732203	1.65	814900	**89.9**	30	-	120	
103	Rh	3	1412780	0.96	1535000	**92.0**	30	-	120	
165	Ho	3	3120733	0.97	3236000	**96.4**	30	-	120	
175	Lu	3	3486894	0.52	3584000	**97.3**	30	-	120	
209	Bi	3	7156871	0.28	7619000	**93.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\117SMPL.D\117SMPL.D#
Date Acquired: May 28 2010 02:07 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.014**	ug/l	0.01	32.8	450	6	P	
23	**Na**	2	**7.180**	ug/l	7.18	6.0	450000	45	P	
24	**Mg**	2	**2.599**	ug/l	2.60	12.7	450000	45	P	
27	**Al**	2	**0.362**	ug/l	0.36	76.3	450000	45	P	
31	**P**	2	**-6.859**	ug/l	-6.86	41.9	450000	45	P	
39	**K**	2	**15.370**	ug/l	15.37	23.7	450000	45	P	
44	**Ca**	2	**3.801**	ug/l	3.80	56.2	450000	45	P	
47	**Ti**	2	**0.055**	ug/l	0.06	45.8	4500	45	P	
51	**V**	2	**-0.066**	ug/l	-0.07	62.0	4500	45	P	
52	**Cr**	2	**-0.002**	ug/l	0.00	3230.8	4500	45	P	
54	**Fe**	2	**0.877**	ug/l	0.88	20.5	450000	74	P	
55	**Mn**	2	**0.092**	ug/l	0.09	5.2	15000	45	P	
59	**Co**	2	**0.017**	ug/l	0.02	27.2	4500	45	P	
60	**Ni**	2	**0.081**	ug/l	0.08	48.2	15000	45	P	
63	**Cu**	2	**0.027**	ug/l	0.03	37.9	15000	45	P	
66	**Zn**	2	**0.034**	ug/l	0.03	239.1	15000	45	P	
75	**As**	2	**-0.031**	ug/l	-0.03	118.4	4500	74	P	
78	**Se**	2	**-0.426**	ug/l	-0.43	89.2	4500	74	P	
88	**Sr**	3	**0.018**	ug/l	0.02	25.0	4500	74	P	
95	**Mo**	3	**0.004**	ug/l	0.00	7.3	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.01	8.5	450	103	P	
111	**Cd**	3	**0.012**	ug/l	0.01	95.7	900	103	P	
118	**Sn**	3	**0.015**	ug/l	0.02	26.6	4500	103	P	
121	**Sb**	3	**0.017**	ug/l	0.02	38.5	4500	103	P	
135	**Ba**	3	**0.008**	ug/l	0.01	80.9	4500	103	P	
200	**Hg**	3	**0.339**	ug/l	0.34	2.7	45	209	P	
205	**Tl**	3	**0.376**	ug/l	0.38	6.5	4500	209	P	
208	**Pb**	3	**0.013**	ug/l	0.01	12.2	4500	209	P	
238	**U**	3	**0.011**	ug/l	0.01	3.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3545477	2.67	5119000	**69.3**	30	-	120	
45	Sc	1	181365	2.13	341400	**53.1**	30	-	120	
45	Sc	2	235580	0.86	273900	**86.0**	30	-	120	
74	Ge	1	158750	0.82	283600	**56.0**	30	-	120	
74	Ge	2	390004	1.23	422600	**92.3**	30	-	120	
74	Ge	3	1506942	1.61	1674000	**90.0**	30	-	120	
103	Rh	2	752909	1.25	814900	**92.4**	30	-	120	
103	Rh	3	1429488	0.92	1535000	**93.1**	30	-	120	
165	Ho	3	3089178	1.80	3236000	**95.5**	30	-	120	
175	Lu	3	3399808	0.42	3584000	**94.9**	30	-	120	
209	Bi	3	7361822	0.89	7619000	**96.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\118SMPL.D\118SMPL.D#
Date Acquired: May 28 2010 02:14 am Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64536/21-A Vial Number: 3501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.004**	ug/l	0.04	34.3	450	6	P	
23	**Na**	2	**5.219**	ug/l	52.19	24.9	450000	45	P	
24	**Mg**	2	**0.969**	ug/l	9.69	24.9	450000	45	P	
27	**Al**	2	**-0.138**	ug/l	-1.38	84.0	450000	45	P	
31	**P**	2	**-4.601**	ug/l	-46.01	92.8	450000	45	P	
39	**K**	2	**11.450**	ug/l	114.50	25.5	450000	45	P	
44	**Ca**	2	**0.165**	ug/l	1.65	1116.4	450000	45	P	
47	**Ti**	2	**0.011**	ug/l	0.11	213.6	4500	45	P	
51	**V**	2	**-0.100**	ug/l	-1.00	57.0	4500	45	P	
52	**Cr**	2	**-0.007**	ug/l	-0.07	369.9	4500	45	P	
54	**Fe**	2	**-0.130**	ug/l	-1.30	266.1	450000	74	P	
55	**Mn**	2	**0.079**	ug/l	0.79	14.4	15000	45	P	
59	**Co**	2	**0.005**	ug/l	0.05	89.7	4500	45	P	
60	**Ni**	2	**0.063**	ug/l	0.63	42.9	15000	45	P	
63	**Cu**	2	**0.020**	ug/l	0.20	130.3	15000	45	P	
66	**Zn**	2	**-0.011**	ug/l	-0.11	160.8	15000	45	P	
75	**As**	2	**-0.056**	ug/l	-0.56	47.3	4500	74	P	
78	**Se**	2	**-0.269**	ug/l	-2.69	157.1	4500	74	P	
88	**Sr**	3	**0.002**	ug/l	0.02	139.8	4500	74	P	
95	**Mo**	3	**-0.007**	ug/l	-0.07	52.0	4500	74	P	
107	**Ag**	3	**0.002**	ug/l	0.02	159.6	450	103	P	
111	**Cd**	3	**0.002**	ug/l	0.02	952.2	900	103	P	
118	**Sn**	3	**0.016**	ug/l	0.16	37.4	4500	103	P	
121	**Sb**	3	**0.008**	ug/l	0.08	33.6	4500	103	P	
135	**Ba**	3	**-0.003**	ug/l	-0.03	125.4	4500	103	P	
200	**Hg**	3	**0.327**	ug/l	3.27	3.5	45	209	P	
205	**Tl**	3	**0.150**	ug/l	1.50	1.8	4500	209	P	
208	**Pb**	3	**0.000**	ug/l	0.00	15623.0	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.01	132.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3675360	0.81	5119000	**71.8**	30	-	120	
45	Sc	1	185942	1.78	341400	**54.5**	30	-	120	
45	Sc	2	237206	0.72	273900	**86.6**	30	-	120	
74	Ge	1	162557	0.44	283600	**57.3**	30	-	120	
74	Ge	2	389130	1.48	422600	**92.1**	30	-	120	
74	Ge	3	1534128	1.21	1674000	**91.6**	30	-	120	
103	Rh	2	750161	0.76	814900	**92.1**	30	-	120	
103	Rh	3	1432360	0.34	1535000	**93.3**	30	-	120	
165	Ho	3	3103646	0.87	3236000	**95.9**	30	-	120	
175	Lu	3	3437128	1.16	3584000	**95.9**	30	-	120	
209	Bi	3	7350793	0.57	7619000	**96.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\119SMPL.D\119SMPL.D#
Date Acquired: May 28 2010 02:21 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-B SD Vial Number: 3502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.113**	ug/l	5.66	1.4	450	6	P	
23	**Na**	2	**39.400**	ug/l	1,970.00	6.0	450000	45	P	
24	**Mg**	2	**3658.000**	ug/l	182,900.00	0.7	450000	45	A	
27	**Al**	2	**4941.000**	ug/l	247,050.00	1.7	450000	45	A	
31	**P**	2	**305.500**	ug/l	15,275.00	4.0	450000	45	P	
39	**K**	2	**541.700**	ug/l	27,085.00	1.4	450000	45	P	
44	**Ca**	2	**1652.000**	ug/l	82,600.00	0.7	450000	45	P	
47	**Ti**	2	**33.070**	ug/l	1,653.50	5.2	4500	45	P	
51	**V**	2	**27.000**	ug/l	1,350.00	1.5	4500	45	P	
52	**Cr**	2	**677.400**	ug/l	33,870.00	0.7	4500	45	A	
54	**Fe**	2	**60590.000**	ug/l	3,029,500.00	1.9	450000	74	A	
55	**Mn**	2	**248.500**	ug/l	12,425.00	0.7	15000	45	P	
59	**Co**	2	**30.900**	ug/l	1,545.00	1.1	4500	45	P	
60	**Ni**	2	**348.200**	ug/l	17,410.00	1.1	15000	45	P	
63	**Cu**	2	**25.080**	ug/l	1,254.00	2.1	15000	45	P	
66	**Zn**	2	**372.700**	ug/l	18,635.00	1.5	15000	45	P	
75	**As**	2	**2.060**	ug/l	103.00	1.7	4500	74	P	
78	**Se**	2	**-0.068**	ug/l	-3.38	589.5	4500	74	P	
88	**Sr**	3	**15.710**	ug/l	785.50	1.0	4500	74	P	
95	**Mo**	3	**0.529**	ug/l	26.43	11.7	4500	74	P	
107	**Ag**	3	**0.033**	ug/l	1.64	5.9	450	103	P	
111	**Cd**	3	**0.197**	ug/l	9.87	19.0	900	103	P	
118	**Sn**	3	**0.901**	ug/l	45.06	4.3	4500	103	P	
121	**Sb**	3	**0.775**	ug/l	38.74	2.5	4500	103	P	
135	**Ba**	3	**52.660**	ug/l	2,633.00	2.4	4500	103	P	
200	**Hg**	3	**11600.000**	ug/l	580,000.00	0.3	45	209	A	Fail
205	**Tl**	3	**0.150**	ug/l	7.52	6.9	4500	209	P	
208	**Pb**	3	**254.200**	ug/l	12,710.00	0.2	4500	209	A	
238	**U**	3	**0.076**	ug/l	3.82	6.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3503835	0.68	5119000	**68.4**	30	-	120	
45	Sc	1	196808	2.36	341400	**57.6**	30	-	120	
45	Sc	2	232807	1.10	273900	**85.0**	30	-	120	
74	Ge	1	165015	0.85	283600	**58.2**	30	-	120	
74	Ge	2	371173	1.23	422600	**87.8**	30	-	120	
74	Ge	3	1453813	1.14	1674000	**86.8**	30	-	120	
103	Rh	2	708914	1.58	814900	**87.0**	30	-	120	
103	Rh	3	1343500	1.40	1535000	**87.5**	30	-	120	
165	Ho	3	3029067	1.43	3236000	**93.6**	30	-	120	
175	Lu	3	3382335	0.72	3584000	**94.4**	30	-	120	
209	Bi	3	7019296	0.50	7619000	**92.1**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\120SMPL.D\120SMPL.D#
Date Acquired: May 28 2010 02:28 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-B Vial Number: 3503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.582**	ug/l	5.82	2.1	450	6	P	
23	**Na**	2	**181.800**	ug/l	1,818.00	2.5	450000	45	P	
24	**Mg**	2	**16050.000**	ug/l	160,500.00	1.0	450000	45	A	
27	**Al**	2	**21520.000**	ug/l	215,200.00	1.6	450000	45	A	
31	**P**	2	**1403.000**	ug/l	14,030.00	2.3	450000	45	P	
39	**K**	2	**2365.000**	ug/l	23,650.00	1.0	450000	45	P	
44	**Ca**	2	**7420.000**	ug/l	74,200.00	1.2	450000	45	P	
47	**Ti**	2	**147.900**	ug/l	1,479.00	8.6	4500	45	P	
51	**V**	2	**122.100**	ug/l	1,221.00	0.7	4500	45	P	
52	**Cr**	2	**2917.000**	ug/l	29,170.00	1.5	4500	45	A	
54	**Fe**	2	**296200.000**	ug/l	2,962,000.00	0.9	450000	74	A	
55	**Mn**	2	**1085.000**	ug/l	10,850.00	2.1	15000	45	A	
59	**Co**	2	**136.600**	ug/l	1,366.00	1.2	4500	45	P	
60	**Ni**	2	**1500.000**	ug/l	15,000.00	1.3	15000	45	A	
63	**Cu**	2	**109.700**	ug/l	1,097.00	1.1	15000	45	P	
66	**Zn**	2	**1653.000**	ug/l	16,530.00	2.2	15000	45	P	
75	**As**	2	**9.883**	ug/l	98.83	0.9	4500	74	P	
78	**Se**	2	**0.857**	ug/l	8.57	140.0	4500	74	P	
88	**Sr**	3	**78.770**	ug/l	787.70	1.8	4500	74	P	
95	**Mo**	3	**3.021**	ug/l	30.21	3.1	4500	74	P	
107	**Ag**	3	**0.130**	ug/l	1.30	8.9	450	103	P	
111	**Cd**	3	**0.863**	ug/l	8.63	11.5	900	103	P	
118	**Sn**	3	**4.532**	ug/l	45.32	1.8	4500	103	P	
121	**Sb**	3	**3.781**	ug/l	37.81	3.0	4500	103	P	
135	**Ba**	3	**256.300**	ug/l	2,563.00	0.8	4500	103	P	
200	**Hg**	3	**59270.000**	ug/l	592,700.00	1.6	45	209	A	Fail
205	**Tl**	3	**0.315**	ug/l	3.15	4.9	4500	209	P	
208	**Pb**	3	**1240.000**	ug/l	12,400.00	1.3	4500	209	A	
238	**U**	3	**0.415**	ug/l	4.15	2.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2788876	1.17	5119000	**54.5**	30	-	120	
45	Sc	1	193235	1.45	341400	**56.6**	30	-	120	
45	Sc	2	215961	1.79	273900	**78.8**	30	-	120	
74	Ge	1	142634	1.36	283600	**50.3**	30	-	120	
74	Ge	2	314196	1.30	422600	**74.3**	30	-	120	
74	Ge	3	1234557	2.10	1674000	**73.7**	30	-	120	
103	Rh	2	604910	1.41	814900	**74.2**	30	-	120	
103	Rh	3	1194942	0.82	1535000	**77.8**	30	-	120	
165	Ho	3	2813448	0.58	3236000	**86.9**	30	-	120	
175	Lu	3	3119866	0.76	3584000	**87.0**	30	-	120	
209	Bi	3	6320709	1.50	7619000	**83.0**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\121SMPL.D\121SMPL.D#
Date Acquired: May 28 2010 02:35 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-C DU Vial Number: 3504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.607**	ug/l	6.07	2.5	450	6	P	
23	**Na**	2	**190.000**	ug/l	1,900.00	0.4	450000	45	P	
24	**Mg**	2	**16690.000**	ug/l	166,900.00	1.1	450000	45	A	
27	**Al**	2	**22230.000**	ug/l	222,300.00	0.8	450000	45	A	
31	**P**	2	**1452.000**	ug/l	14,520.00	6.3	450000	45	P	
39	**K**	2	**2406.000**	ug/l	24,060.00	1.5	450000	45	P	
44	**Ca**	2	**7607.000**	ug/l	76,070.00	0.5	450000	45	P	
47	**Ti**	2	**144.700**	ug/l	1,447.00	1.4	4500	45	P	
51	**V**	2	**126.500**	ug/l	1,265.00	1.5	4500	45	P	
52	**Cr**	2	**3009.000**	ug/l	30,090.00	1.1	4500	45	A	
54	**Fe**	2	**308500.000**	ug/l	3,085,000.00	1.8	450000	74	A	
55	**Mn**	2	**1117.000**	ug/l	11,170.00	1.9	15000	45	A	
59	**Co**	2	**142.000**	ug/l	1,420.00	1.4	4500	45	P	
60	**Ni**	2	**1556.000**	ug/l	15,560.00	2.2	15000	45	A	
63	**Cu**	2	**113.900**	ug/l	1,139.00	1.2	15000	45	P	
66	**Zn**	2	**1718.000**	ug/l	17,180.00	0.8	15000	45	P	
75	**As**	2	**10.650**	ug/l	106.50	1.5	4500	74	P	
78	**Se**	2	**0.590**	ug/l	5.90	32.8	4500	74	P	
88	**Sr**	3	**80.610**	ug/l	806.10	0.9	4500	74	P	
95	**Mo**	3	**2.967**	ug/l	29.67	4.4	4500	74	P	
107	**Ag**	3	**0.136**	ug/l	1.36	16.7	450	103	P	
111	**Cd**	3	**0.829**	ug/l	8.29	6.4	900	103	P	
118	**Sn**	3	**4.716**	ug/l	47.16	3.7	4500	103	P	
121	**Sb**	3	**3.936**	ug/l	39.36	3.3	4500	103	P	
135	**Ba**	3	**267.600**	ug/l	2,676.00	0.6	4500	103	P	
200	**Hg**	3	**60810.000**	ug/l	608,100.00	0.9	45	209	A	Fail
205	**Tl**	3	**0.293**	ug/l	2.93	4.6	4500	209	P	
208	**Pb**	3	**1266.000**	ug/l	12,660.00	0.6	4500	209	A	
238	**U**	3	**0.435**	ug/l	4.35	2.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2703033	1.65	5119000	**52.8**	30	-	120	
45	Sc	1	191451	1.10	341400	**56.1**	30	-	120	
45	Sc	2	211929	1.33	273900	**77.4**	30	-	120	
74	Ge	1	139723	1.04	283600	**49.3**	30	-	120	
74	Ge	2	308266	2.18	422600	**72.9**	30	-	120	
74	Ge	3	1253667	1.85	1674000	**74.9**	30	-	120	
103	Rh	2	600677	1.93	814900	**73.7**	30	-	120	
103	Rh	3	1188359	0.47	1535000	**77.4**	30	-	120	
165	Ho	3	2809526	0.16	3236000	**86.8**	30	-	120	
175	Lu	3	3156967	0.74	3584000	**88.1**	30	-	120	
209	Bi	3	6393694	0.42	7619000	**83.9**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\122SMPL.D\122SMPL.D#
Date Acquired: May 28 2010 02:42 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-D MS Vial Number: 3505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.211**	ug/l	110.55	0.5	450	6	P	
23	**Na**	2	**451.000**	ug/l	22,550.00	1.0	450000	45	P	
24	**Mg**	2	**3629.000**	ug/l	181,450.00	1.2	450000	45	A	
27	**Al**	2	**4520.000**	ug/l	226,000.00	0.5	450000	45	P	
31	**P**	2	**626.100**	ug/l	31,305.00	1.3	450000	45	P	
39	**K**	2	**884.200**	ug/l	44,210.00	0.4	450000	45	P	
44	**Ca**	2	**1859.000**	ug/l	92,950.00	0.8	450000	45	P	
47	**Ti**	2	**124.800**	ug/l	6,240.00	0.6	4500	45	P	
51	**V**	2	**44.100**	ug/l	2,205.00	1.6	4500	45	P	
52	**Cr**	2	**607.200**	ug/l	30,360.00	1.1	4500	45	A	
54	**Fe**	2	**53590.000**	ug/l	2,679,500.00	0.6	450000	74	A	
55	**Mn**	2	**240.200**	ug/l	12,010.00	0.5	15000	45	P	
59	**Co**	2	**47.540**	ug/l	2,377.00	0.3	4500	45	P	
60	**Ni**	2	**326.900**	ug/l	16,345.00	0.7	15000	45	P	
63	**Cu**	2	**32.250**	ug/l	1,612.50	0.9	15000	45	P	
66	**Zn**	2	**352.600**	ug/l	17,630.00	1.4	15000	45	P	
75	**As**	2	**78.870**	ug/l	3,943.50	1.1	4500	74	P	
78	**Se**	2	**85.530**	ug/l	4,276.50	7.7	4500	74	P	
88	**Sr**	3	**13.690**	ug/l	684.50	0.3	4500	74	P	
95	**Mo**	3	**105.700**	ug/l	5,285.00	1.4	4500	74	P	
107	**Ag**	3	**12.130**	ug/l	606.50	1.2	450	103	P	
111	**Cd**	3	**2.277**	ug/l	113.85	5.0	900	103	P	
118	**Sn**	3	**106.400**	ug/l	5,320.00	1.6	4500	103	P	
121	**Sb**	3	**59.100**	ug/l	2,955.00	1.4	4500	103	P	
135	**Ba**	3	**130.900**	ug/l	6,545.00	1.7	4500	103	P	
200	**Hg**	3	**10540.000**	ug/l	527,000.00	0.7	45	209	A	Fail
205	**Tl**	3	**80.210**	ug/l	4,010.50	0.6	4500	209	A	
208	**Pb**	3	**245.100**	ug/l	12,255.00	1.1	4500	209	A	
238	**U**	3	**0.074**	ug/l	3.69	2.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3215270	1.59	5119000	**62.8**	30	-	120	
45	Sc	1	188805	0.60	341400	**55.3**	30	-	120	
45	Sc	2	212052	0.68	273900	**77.4**	30	-	120	
74	Ge	1	157650	1.28	283600	**55.6**	30	-	120	
74	Ge	2	345724	1.37	422600	**81.8**	30	-	120	
74	Ge	3	1358625	0.97	1674000	**81.2**	30	-	120	
103	Rh	2	672207	0.09	814900	**82.5**	30	-	120	
103	Rh	3	1287027	0.40	1535000	**83.8**	30	-	120	
165	Ho	3	2926651	1.06	3236000	**90.4**	30	-	120	
175	Lu	3	3269518	0.85	3584000	**91.2**	30	-	120	
209	Bi	3	6840558	0.76	7619000	**89.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\123SMPL.D\123SMPL.D#
Date Acquired: May 28 2010 02:49 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-E MSD Vial Number: 3506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.340**	ug/l	117.00	4.5	450	6	P	
23	**Na**	2	**456.100**	ug/l	22,805.00	1.0	450000	45	P	
24	**Mg**	2	**3751.000**	ug/l	187,550.00	1.8	450000	45	A	
27	**Al**	2	**4641.000**	ug/l	232,050.00	0.7	450000	45	P	
31	**P**	2	**653.900**	ug/l	32,695.00	3.5	450000	45	P	
39	**K**	2	**920.800**	ug/l	46,040.00	1.0	450000	45	P	
44	**Ca**	2	**1939.000**	ug/l	96,950.00	1.6	450000	45	P	
47	**Ti**	2	**129.400**	ug/l	6,470.00	0.5	4500	45	P	
51	**V**	2	**44.670**	ug/l	2,233.50	0.4	4500	45	P	
52	**Cr**	2	**622.900**	ug/l	31,145.00	0.3	4500	45	A	
54	**Fe**	2	**56280.000**	ug/l	2,814,000.00	0.8	450000	74	A	
55	**Mn**	2	**246.400**	ug/l	12,320.00	0.5	15000	45	P	
59	**Co**	2	**48.900**	ug/l	2,445.00	0.7	4500	45	P	
60	**Ni**	2	**335.600**	ug/l	16,780.00	0.6	15000	45	P	
63	**Cu**	2	**33.310**	ug/l	1,665.50	1.3	15000	45	P	
66	**Zn**	2	**361.100**	ug/l	18,055.00	0.1	15000	45	P	
75	**As**	2	**83.000**	ug/l	4,150.00	2.5	4500	74	P	
78	**Se**	2	**83.460**	ug/l	4,173.00	5.0	4500	74	P	
88	**Sr**	3	**14.080**	ug/l	704.00	1.6	4500	74	P	
95	**Mo**	3	**110.600**	ug/l	5,530.00	1.7	4500	74	P	
107	**Ag**	3	**12.910**	ug/l	645.50	1.4	450	103	P	
111	**Cd**	3	**2.322**	ug/l	116.10	4.1	900	103	P	
118	**Sn**	3	**112.300**	ug/l	5,615.00	0.2	4500	103	P	
121	**Sb**	3	**62.290**	ug/l	3,114.50	1.9	4500	103	P	
135	**Ba**	3	**135.300**	ug/l	6,765.00	2.5	4500	103	P	
200	**Hg**	3	**10810.000**	ug/l	540,500.00	0.7	45	209	A	Fail
205	**Tl**	3	**83.760**	ug/l	4,188.00	1.4	4500	209	A	
208	**Pb**	3	**254.400**	ug/l	12,720.00	0.2	4500	209	A	
238	**U**	3	**0.068**	ug/l	3.42	5.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3249122	1.91	5119000	**63.5**	30	-	120	
45	Sc	1	196673	0.44	341400	**57.6**	30	-	120	
45	Sc	2	216349	1.14	273900	**79.0**	30	-	120	
74	Ge	1	167658	2.39	283600	**59.1**	30	-	120	
74	Ge	2	343560	1.24	422600	**81.3**	30	-	120	
74	Ge	3	1370036	1.32	1674000	**81.8**	30	-	120	
103	Rh	2	668136	0.61	814900	**82.0**	30	-	120	
103	Rh	3	1277754	0.41	1535000	**83.2**	30	-	120	
165	Ho	3	2919016	0.54	3236000	**90.2**	30	-	120	
175	Lu	3	3272152	0.70	3584000	**91.3**	30	-	120	
209	Bi	3	6822660	0.83	7619000	**89.5**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\124SMPL.D\124SMPL.D#
Date Acquired: May 28 2010 02:57 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-B PDS Vial Number: 3507
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.238**	ug/l	111.90	3.9	450	6	P	
23	**Na**	2	**463.500**	ug/l	23,175.00	0.9	450000	45	P	
24	**Mg**	2	**3787.000**	ug/l	189,350.00	3.3	450000	45	A	
27	**Al**	2	**4688.000**	ug/l	234,400.00	1.2	450000	45	P	
31	**P**	2	**648.000**	ug/l	32,400.00	1.3	450000	45	P	
39	**K**	2	**912.400**	ug/l	45,620.00	1.1	450000	45	P	
44	**Ca**	2	**1950.000**	ug/l	97,500.00	0.4	450000	45	P	
47	**Ti**	2	**130.000**	ug/l	6,500.00	1.7	4500	45	P	
51	**V**	2	**45.020**	ug/l	2,251.00	0.9	4500	45	P	
52	**Cr**	2	**624.800**	ug/l	31,240.00	1.9	4500	45	A	
54	**Fe**	2	**56330.000**	ug/l	2,816,500.00	2.1	450000	74	A	
55	**Mn**	2	**247.700**	ug/l	12,385.00	1.0	15000	45	P	
59	**Co**	2	**48.970**	ug/l	2,448.50	0.3	4500	45	P	
60	**Ni**	2	**338.000**	ug/l	16,900.00	0.7	15000	45	P	
63	**Cu**	2	**33.110**	ug/l	1,655.50	0.5	15000	45	P	
66	**Zn**	2	**364.000**	ug/l	18,200.00	1.4	15000	45	P	
75	**As**	2	**81.440**	ug/l	4,072.00	1.2	4500	74	P	
78	**Se**	2	**86.300**	ug/l	4,315.00	10.3	4500	74	P	
88	**Sr**	3	**14.120**	ug/l	706.00	1.1	4500	74	P	
95	**Mo**	3	**110.100**	ug/l	5,505.00	0.4	4500	74	P	
107	**Ag**	3	**12.670**	ug/l	633.50	0.3	450	103	P	
111	**Cd**	3	**2.254**	ug/l	112.70	5.7	900	103	P	
118	**Sn**	3	**111.700**	ug/l	5,585.00	1.0	4500	103	P	
121	**Sb**	3	**61.940**	ug/l	3,097.00	1.4	4500	103	P	
135	**Ba**	3	**134.900**	ug/l	6,745.00	2.3	4500	103	P	
200	**Hg**	3	**10790.000**	ug/l	539,500.00	0.9	45	209	A	Fail
205	**Tl**	3	**83.190**	ug/l	4,159.50	0.6	4500	209	A	
208	**Pb**	3	**254.400**	ug/l	12,720.00	0.3	4500	209	A	
238	**U**	3	**0.072**	ug/l	3.58	7.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3302458	1.21	5119000	**64.5**	30	-	120	
45	Sc	1	193331	1.24	341400	**56.6**	30	-	120	
45	Sc	2	214293	1.43	273900	**78.2**	30	-	120	
74	Ge	1	161265	2.21	283600	**56.9**	30	-	120	
74	Ge	2	342827	1.91	422600	**81.1**	30	-	120	
74	Ge	3	1342083	0.33	1674000	**80.2**	30	-	120	
103	Rh	2	666322	1.76	814900	**81.8**	30	-	120	
103	Rh	3	1264862	1.00	1535000	**82.4**	30	-	120	
165	Ho	3	2928652	0.52	3236000	**90.5**	30	-	120	
175	Lu	3	3235943	1.09	3584000	**90.3**	30	-	120	
209	Bi	3	6747785	0.26	7619000	**88.6**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\125SMPL.D\125SMPL.D#
Date Acquired: May 28 2010 03:04 am Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64536/22-A Vial Number: 3508
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.152**	ug/l	107.60	1.3	450	6	P	
23	**Na**	2	**425.600**	ug/l	21,280.00	1.8	450000	45	P	
24	**Mg**	2	**416.800**	ug/l	20,840.00	1.5	450000	45	P	
27	**Al**	2	**78.000**	ug/l	3,900.00	1.3	450000	45	P	
31	**P**	2	**369.000**	ug/l	18,450.00	2.9	450000	45	P	
39	**K**	2	**433.300**	ug/l	21,665.00	0.5	450000	45	P	
44	**Ca**	2	**409.900**	ug/l	20,495.00	2.1	450000	45	P	
47	**Ti**	2	**100.800**	ug/l	5,040.00	1.0	4500	45	P	
51	**V**	2	**20.620**	ug/l	1,031.00	1.3	4500	45	P	
52	**Cr**	2	**8.473**	ug/l	423.65	3.1	4500	45	P	
54	**Fe**	2	**455.100**	ug/l	22,755.00	1.0	450000	74	P	
55	**Mn**	2	**21.450**	ug/l	1,072.50	0.9	15000	45	P	
59	**Co**	2	**21.450**	ug/l	1,072.50	1.5	4500	45	P	
60	**Ni**	2	**21.840**	ug/l	1,092.00	2.9	15000	45	P	
63	**Cu**	2	**10.920**	ug/l	546.00	0.3	15000	45	P	
66	**Zn**	2	**21.310**	ug/l	1,065.50	4.0	15000	45	P	
75	**As**	2	**81.200**	ug/l	4,060.00	2.1	4500	74	P	
78	**Se**	2	**84.830**	ug/l	4,241.50	4.7	4500	74	P	
88	**Sr**	3	**0.007**	ug/l	0.35	84.5	4500	74	P	
95	**Mo**	3	**106.100**	ug/l	5,305.00	0.4	4500	74	P	
107	**Ag**	3	**12.430**	ug/l	621.50	2.0	450	103	P	
111	**Cd**	3	**1.966**	ug/l	98.30	0.6	900	103	P	
118	**Sn**	3	**106.400**	ug/l	5,320.00	1.6	4500	103	P	
121	**Sb**	3	**60.900**	ug/l	3,045.00	1.3	4500	103	P	
135	**Ba**	3	**84.920**	ug/l	4,246.00	2.1	4500	103	P	
200	**Hg**	3	**97.450**	ug/l	4,872.50	2.1	45	209	P	Fail
205	**Tl**	3	**79.380**	ug/l	3,969.00	2.1	4500	209	A	
208	**Pb**	3	**20.690**	ug/l	1,034.50	1.6	4500	209	P	
238	**U**	3	**-0.002**	ug/l	-0.08	15.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3172018	0.74	5119000	**62.0**	30	-	120	
45	Sc	1	187075	1.02	341400	**54.8**	30	-	120	
45	Sc	2	211130	1.70	273900	**77.1**	30	-	120	
74	Ge	1	160962	2.53	283600	**56.8**	30	-	120	
74	Ge	2	351420	0.76	422600	**83.2**	30	-	120	
74	Ge	3	1375847	0.18	1674000	**82.2**	30	-	120	
103	Rh	2	690459	0.53	814900	**84.7**	30	-	120	
103	Rh	3	1307511	0.54	1535000	**85.2**	30	-	120	
165	Ho	3	2971472	0.60	3236000	**91.8**	30	-	120	
175	Lu	3	3226827	0.89	3584000	**90.0**	30	-	120	
209	Bi	3	7068557	1.03	7619000	**92.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\126SMPL.D\126SMPL.D#
Date Acquired: May 28 2010 03:11 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64536/23-A Vial Number: 3509
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.159**	ug/l	107.95	1.3	450	6	P	
23	**Na**	2	**424.400**	ug/l	21,220.00	0.5	450000	45	P	
24	**Mg**	2	**414.600**	ug/l	20,730.00	1.1	450000	45	P	
27	**Al**	2	**76.790**	ug/l	3,839.50	3.4	450000	45	P	
31	**P**	2	**356.500**	ug/l	17,825.00	4.6	450000	45	P	
39	**K**	2	**428.500**	ug/l	21,425.00	0.4	450000	45	P	
44	**Ca**	2	**423.600**	ug/l	21,180.00	5.9	450000	45	P	
47	**Ti**	2	**99.850**	ug/l	4,992.50	1.8	4500	45	P	
51	**V**	2	**20.430**	ug/l	1,021.50	0.9	4500	45	P	
52	**Cr**	2	**8.212**	ug/l	410.60	1.1	4500	45	P	
54	**Fe**	2	**443.300**	ug/l	22,165.00	1.2	450000	74	P	
55	**Mn**	2	**21.330**	ug/l	1,066.50	0.3	15000	45	P	
59	**Co**	2	**21.180**	ug/l	1,059.00	0.6	4500	45	P	
60	**Ni**	2	**21.020**	ug/l	1,051.00	4.1	15000	45	P	
63	**Cu**	2	**10.900**	ug/l	545.00	0.8	15000	45	P	
66	**Zn**	2	**21.900**	ug/l	1,095.00	1.5	15000	45	P	
75	**As**	2	**80.880**	ug/l	4,044.00	1.0	4500	74	P	
78	**Se**	2	**75.290**	ug/l	3,764.50	7.8	4500	74	P	
88	**Sr**	3	**0.003**	ug/l	0.14	161.9	4500	74	P	
95	**Mo**	3	**106.600**	ug/l	5,330.00	1.2	4500	74	P	
107	**Ag**	3	**12.560**	ug/l	628.00	0.9	450	103	P	
111	**Cd**	3	**2.077**	ug/l	103.85	3.6	900	103	P	
118	**Sn**	3	**107.300**	ug/l	5,365.00	0.2	4500	103	P	
121	**Sb**	3	**60.830**	ug/l	3,041.50	1.4	4500	103	P	
135	**Ba**	3	**86.040**	ug/l	4,302.00	0.9	4500	103	P	
200	**Hg**	3	**71.400**	ug/l	3,570.00	1.7	45	209	P	Fail
205	**Tl**	3	**80.380**	ug/l	4,019.00	0.3	4500	209	A	
208	**Pb**	3	**20.920**	ug/l	1,046.00	0.5	4500	209	P	
238	**U**	3	**-0.002**	ug/l	-0.08	17.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3163652	1.52	5119000	**61.8**	30	-	120	
45	Sc	1	186752	0.91	341400	**54.7**	30	-	120	
45	Sc	2	213137	0.64	273900	**77.8**	30	-	120	
74	Ge	1	162307	0.71	283600	**57.2**	30	-	120	
74	Ge	2	353633	0.94	422600	**83.7**	30	-	120	
74	Ge	3	1391109	0.69	1674000	**83.1**	30	-	120	
103	Rh	2	696394	1.10	814900	**85.5**	30	-	120	
103	Rh	3	1316056	0.72	1535000	**85.7**	30	-	120	
165	Ho	3	2994420	1.18	3236000	**92.5**	30	-	120	
175	Lu	3	3327261	0.33	3584000	**92.8**	30	-	120	
209	Bi	3	7040570	0.32	7619000	**92.4**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\127SMPL.D\127SMPL.D#
Date Acquired: May 28 2010 03:18 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64536/24-A Vial Number: 3510
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**95.780**	ug/l	1,915.60	1.3	450	6	P	
23	**Na**	2	**328.900**	ug/l	6,578.00	0.5	450000	45	P	
24	**Mg**	2	**2449.000**	ug/l	48,980.00	0.6	450000	45	A	
27	**Al**	2	**5847.000**	ug/l	116,940.00	0.9	450000	45	A	
31	**P**	2	**403.100**	ug/l	8,062.00	5.6	450000	45	P	
39	**K**	2	**2430.000**	ug/l	48,600.00	0.5	450000	45	P	
44	**Ca**	2	**5586.000**	ug/l	111,720.00	2.1	450000	45	P	
47	**Ti**	2	**274.600**	ug/l	5,492.00	0.6	4500	45	P	
51	**V**	2	**56.980**	ug/l	1,139.60	1.2	4500	45	P	
52	**Cr**	2	**72.540**	ug/l	1,450.80	0.7	4500	45	P	
54	**Fe**	2	**10180.000**	ug/l	203,600.00	2.0	450000	74	A	
55	**Mn**	2	**216.600**	ug/l	4,332.00	0.5	15000	45	P	
59	**Co**	2	**70.910**	ug/l	1,418.20	0.5	4500	45	P	
60	**Ni**	2	**106.200**	ug/l	2,124.00	1.5	15000	45	P	
63	**Cu**	2	**40.610**	ug/l	812.20	0.5	15000	45	P	
66	**Zn**	2	**217.100**	ug/l	4,342.00	0.5	15000	45	P	
75	**As**	2	**130.700**	ug/l	2,614.00	1.2	4500	74	P	
78	**Se**	2	**89.080**	ug/l	1,781.60	10.3	4500	74	P	
88	**Sr**	3	**74.010**	ug/l	1,480.20	2.6	4500	74	P	
95	**Mo**	3	**67.690**	ug/l	1,353.80	2.2	4500	74	P	
107	**Ag**	3	**21.040**	ug/l	420.80	0.5	450	103	P	
111	**Cd**	3	**40.280**	ug/l	805.60	0.8	900	103	P	
118	**Sn**	3	**101.200**	ug/l	2,024.00	1.4	4500	103	P	
121	**Sb**	3	**86.000**	ug/l	1,720.00	1.4	4500	103	P	
135	**Ba**	3	**337.800**	ug/l	6,756.00	1.4	4500	103	P	
200	**Hg**	3	**73.880**	ug/l	1,477.60	0.9	45	209	P	Fail
205	**Tl**	3	**101.300**	ug/l	2,026.00	1.1	4500	209	A	
208	**Pb**	3	**126.600**	ug/l	2,532.00	0.3	4500	209	A	
238	**U**	3	**1.052**	ug/l	21.04	1.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3541150	1.81	5119000	**69.2**	30	-	120	
45	Sc	1	195648	1.35	341400	**57.3**	30	-	120	
45	Sc	2	217133	0.52	273900	**79.3**	30	-	120	
74	Ge	1	169345	1.69	283600	**59.7**	30	-	120	
74	Ge	2	353442	1.40	422600	**83.6**	30	-	120	
74	Ge	3	1413697	2.49	1674000	**84.5**	30	-	120	
103	Rh	2	676511	0.81	814900	**83.0**	30	-	120	
103	Rh	3	1318493	0.29	1535000	**85.9**	30	-	120	
165	Ho	3	2966347	1.69	3236000	**91.7**	30	-	120	
175	Lu	3	3306452	0.32	3584000	**92.3**	30	-	120	
209	Bi	3	6907766	0.97	7619000	**90.7**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\128SMPL.D\128SMPL.D#
Date Acquired: May 28 2010 03:25 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**53.990**	ug/l	53.99	1.3	450	6	P	
23	**Na**	2	**5053.000**	ug/l	5,053.00	1.8	450000	45	A	
24	**Mg**	2	**5087.000**	ug/l	5,087.00	2.0	450000	45	A	
27	**Al**	2	**491.400**	ug/l	491.40	0.6	450000	45	P	
31	**P**	2	**4989.000**	ug/l	4,989.00	2.9	450000	45	P	
39	**K**	2	**5325.000**	ug/l	5,325.00	2.1	450000	45	A	
44	**Ca**	2	**5194.000**	ug/l	5,194.00	1.9	450000	45	P	
47	**Ti**	2	**52.740**	ug/l	52.74	0.7	4500	45	P	
51	**V**	2	**53.020**	ug/l	53.02	1.6	4500	45	P	
52	**Cr**	2	**52.970**	ug/l	52.97	1.3	4500	45	P	
54	**Fe**	2	**5153.000**	ug/l	5,153.00	1.1	450000	74	P	
55	**Mn**	2	**53.850**	ug/l	53.85	0.4	15000	45	P	
59	**Co**	2	**53.890**	ug/l	53.89	0.8	4500	45	P	
60	**Ni**	2	**53.990**	ug/l	53.99	2.6	15000	45	P	
63	**Cu**	2	**53.780**	ug/l	53.78	1.5	15000	45	P	
66	**Zn**	2	**54.140**	ug/l	54.14	1.5	15000	45	P	
75	**As**	2	**51.910**	ug/l	51.91	3.0	4500	74	P	
78	**Se**	2	**51.220**	ug/l	51.22	2.4	4500	74	P	
88	**Sr**	3	**53.490**	ug/l	53.49	1.1	4500	74	P	
95	**Mo**	3	**52.860**	ug/l	52.86	1.3	4500	74	P	
107	**Ag**	3	**52.230**	ug/l	52.23	1.6	450	103	P	
111	**Cd**	3	**51.730**	ug/l	51.73	3.5	900	103	P	
118	**Sn**	3	**53.190**	ug/l	53.19	1.1	4500	103	P	
121	**Sb**	3	**53.210**	ug/l	53.21	2.7	4500	103	P	
135	**Ba**	3	**53.830**	ug/l	53.83	2.8	4500	103	P	
200	**Hg**	3	**54.090**	ug/l	54.09	0.1	45	209	P	Fail
205	**Tl**	3	**52.910**	ug/l	52.91	1.9	4500	209	P	
208	**Pb**	3	**53.100**	ug/l	53.10	1.6	4500	209	P	
238	**U**	3	**52.010**	ug/l	52.01	2.0	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3511565	0.22	5119000	**68.6**	30	-	120	
45	Sc	1	200366	1.51	341400	**58.7**	30	-	120	
45	Sc	2	220486	1.01	273900	**80.5**	30	-	120	
74	Ge	1	174374	0.98	283600	**61.5**	30	-	120	
74	Ge	2	361888	1.53	422600	**85.6**	30	-	120	
74	Ge	3	1466606	0.39	1674000	**87.6**	30	-	120	
103	Rh	2	696151	1.22	814900	**85.4**	30	-	120	
103	Rh	3	1336452	1.50	1535000	**87.1**	30	-	120	
165	Ho	3	2994963	1.73	3236000	**92.6**	30	-	120	
175	Lu	3	3319903	0.92	3584000	**92.6**	30	-	120	
209	Bi	3	6932508	0.97	7619000	**91.0**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\129SMPL.D\129SMPL.D#
Date Acquired: May 28 2010 03:32 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.018**	ug/l	0.02	17.3	450	6	P	
23	**Na**	2	**8.956**	ug/l	8.96	10.8	450000	45	P	
24	**Mg**	2	**2.350**	ug/l	2.35	6.4	450000	45	P	
27	**Al**	2	**0.566**	ug/l	0.57	19.0	450000	45	P	
31	**P**	2	**-5.222**	ug/l	-5.22	132.7	450000	45	P	
39	**K**	2	**12.230**	ug/l	12.23	13.6	450000	45	P	
44	**Ca**	2	**7.849**	ug/l	7.85	20.4	450000	45	P	
47	**Ti**	2	**0.062**	ug/l	0.06	92.9	4500	45	P	
51	**V**	2	**-0.171**	ug/l	-0.17	26.7	4500	45	P	
52	**Cr**	2	**0.013**	ug/l	0.01	167.0	4500	45	P	
54	**Fe**	2	**2.727**	ug/l	2.73	18.9	450000	74	P	
55	**Mn**	2	**0.104**	ug/l	0.10	5.1	15000	45	P	
59	**Co**	2	**0.023**	ug/l	0.02	21.4	4500	45	P	
60	**Ni**	2	**0.122**	ug/l	0.12	55.0	15000	45	P	
63	**Cu**	2	**0.018**	ug/l	0.02	99.9	15000	45	P	
66	**Zn**	2	**0.062**	ug/l	0.06	174.5	15000	45	P	
75	**As**	2	**-0.038**	ug/l	-0.04	37.7	4500	74	P	
78	**Se**	2	**-0.152**	ug/l	-0.15	550.8	4500	74	P	
88	**Sr**	3	**0.015**	ug/l	0.02	24.5	4500	74	P	
95	**Mo**	3	**0.007**	ug/l	0.01	112.5	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.01	37.2	450	103	P	
111	**Cd**	3	**0.013**	ug/l	0.01	55.0	900	103	P	
118	**Sn**	3	**0.069**	ug/l	0.07	8.6	4500	103	P	
121	**Sb**	3	**0.061**	ug/l	0.06	17.7	4500	103	P	
135	**Ba**	3	**0.042**	ug/l	0.04	20.3	4500	103	P	
200	**Hg**	3	**44.060**	ug/l	44.06	0.8	45	209	P	
205	**Tl**	3	**0.685**	ug/l	0.69	8.8	4500	209	P	
208	**Pb**	3	**0.025**	ug/l	0.02	10.2	4500	209	P	
238	**U**	3	**0.012**	ug/l	0.01	7.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3399935	2.19	5119000	**66.4**	30	-	120	
45	Sc	1	198430	0.80	341400	**58.1**	30	-	120	
45	Sc	2	223829	0.65	273900	**81.7**	30	-	120	
74	Ge	1	173828	1.18	283600	**61.3**	30	-	120	
74	Ge	2	371487	0.74	422600	**87.9**	30	-	120	
74	Ge	3	1448040	1.66	1674000	**86.5**	30	-	120	
103	Rh	2	720321	0.66	814900	**88.4**	30	-	120	
103	Rh	3	1363550	0.98	1535000	**88.8**	30	-	120	
165	Ho	3	2971052	1.42	3236000	**91.8**	30	-	120	
175	Lu	3	3308839	1.79	3584000	**92.3**	30	-	120	
209	Bi	3	7177571	0.78	7619000	**94.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\130SMPL.D\130SMPL.D#
Date Acquired: May 28 2010 03:39 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-15-B Vial Number: 4101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.252**	ug/l	12.52	2.8	450	6	P	
23	**Na**	2	**103.700**	ug/l	1,037.00	1.8	450000	45	P	
24	**Mg**	2	**33570.000**	ug/l	335,700.00	1.2	450000	45	A	
27	**Al**	2	**34420.000**	ug/l	344,200.00	1.6	450000	45	A	
31	**P**	2	**675.400**	ug/l	6,754.00	2.2	450000	45	P	
39	**K**	2	**2137.000**	ug/l	21,370.00	0.8	450000	45	P	
44	**Ca**	2	**2880.000**	ug/l	28,800.00	1.1	450000	45	P	
47	**Ti**	2	**79.600**	ug/l	796.00	14.2	4500	45	P	
51	**V**	2	**98.980**	ug/l	989.80	1.8	4500	45	P	
52	**Cr**	2	**344.600**	ug/l	3,446.00	0.9	4500	45	P	
54	**Fe**	2	**85250.000**	ug/l	852,500.00	1.7	450000	74	A	
55	**Mn**	2	**1647.000**	ug/l	16,470.00	0.7	15000	45	A	
59	**Co**	2	**81.780**	ug/l	817.80	0.9	4500	45	P	
60	**Ni**	2	**906.000**	ug/l	9,060.00	0.6	15000	45	P	
63	**Cu**	2	**82.590**	ug/l	825.90	1.1	15000	45	P	
66	**Zn**	2	**178.600**	ug/l	1,786.00	0.8	15000	45	P	
75	**As**	2	**21.340**	ug/l	213.40	1.7	4500	74	P	
78	**Se**	2	**0.862**	ug/l	8.62	28.0	4500	74	P	
88	**Sr**	3	**30.380**	ug/l	303.80	1.5	4500	74	P	
95	**Mo**	3	**1.894**	ug/l	18.94	5.5	4500	74	P	
107	**Ag**	3	**0.180**	ug/l	1.80	11.5	450	103	P	
111	**Cd**	3	**0.359**	ug/l	3.59	17.6	900	103	P	
118	**Sn**	3	**1.299**	ug/l	12.99	1.2	4500	103	P	
121	**Sb**	3	**0.442**	ug/l	4.42	10.1	4500	103	P	
135	**Ba**	3	**438.500**	ug/l	4,385.00	2.6	4500	103	P	
200	**Hg**	3	**745.500**	ug/l	7,455.00	1.6	45	209	A	Fail
205	**Tl**	3	**0.573**	ug/l	5.73	3.6	4500	209	P	
208	**Pb**	3	**36.910**	ug/l	369.10	1.1	4500	209	P	
238	**U**	3	**0.321**	ug/l	3.21	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3233697	1.57	5119000	**63.2**	30	-	120	
45	Sc	1	208169	0.87	341400	**61.0**	30	-	120	
45	Sc	2	235758	0.41	273900	**86.1**	30	-	120	
74	Ge	1	162388	1.51	283600	**57.3**	30	-	120	
74	Ge	2	354045	2.07	422600	**83.8**	30	-	120	
74	Ge	3	1436157	2.21	1674000	**85.8**	30	-	120	
103	Rh	2	671438	1.02	814900	**82.4**	30	-	120	
103	Rh	3	1317775	2.40	1535000	**85.8**	30	-	120	
165	Ho	3	3023569	1.13	3236000	**93.4**	30	-	120	
175	Lu	3	3357138	0.71	3584000	**93.7**	30	-	120	
209	Bi	3	6737754	0.75	7619000	**88.4**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\131SMPL.D\131SMPL.D#
Date Acquired: May 28 2010 03:47 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-16-B Vial Number: 4102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.186**	ug/l	11.86	3.5	450	6	P	
23	**Na**	2	**80.050**	ug/l	800.50	4.4	450000	45	P	
24	**Mg**	2	**17530.000**	ug/l	175,300.00	0.7	450000	45	A	
27	**Al**	2	**33520.000**	ug/l	335,200.00	0.0	450000	45	A	
31	**P**	2	**1011.000**	ug/l	10,110.00	0.7	450000	45	P	
39	**K**	2	**3474.000**	ug/l	34,740.00	1.0	450000	45	A	
44	**Ca**	2	**4382.000**	ug/l	43,820.00	1.0	450000	45	P	
47	**Ti**	2	**89.760**	ug/l	897.60	2.2	4500	45	P	
51	**V**	2	**86.910**	ug/l	869.10	0.7	4500	45	P	
52	**Cr**	2	**230.500**	ug/l	2,305.00	0.7	4500	45	P	
54	**Fe**	2	**75570.000**	ug/l	755,700.00	0.3	450000	74	A	
55	**Mn**	2	**1345.000**	ug/l	13,450.00	1.0	15000	45	A	
59	**Co**	2	**48.720**	ug/l	487.20	1.8	4500	45	P	
60	**Ni**	2	**420.300**	ug/l	4,203.00	0.9	15000	45	P	
63	**Cu**	2	**109.200**	ug/l	1,092.00	0.9	15000	45	P	
66	**Zn**	2	**226.800**	ug/l	2,268.00	1.6	15000	45	P	
75	**As**	2	**17.730**	ug/l	177.30	0.8	4500	74	P	
78	**Se**	2	**0.996**	ug/l	9.96	17.7	4500	74	P	
88	**Sr**	3	**32.830**	ug/l	328.30	1.2	4500	74	P	
95	**Mo**	3	**1.425**	ug/l	14.25	4.8	4500	74	P	
107	**Ag**	3	**0.117**	ug/l	1.17	10.4	450	103	P	
111	**Cd**	3	**0.484**	ug/l	4.84	4.8	900	103	P	
118	**Sn**	3	**1.957**	ug/l	19.57	6.6	4500	103	P	
121	**Sb**	3	**1.361**	ug/l	13.61	3.6	4500	103	P	
135	**Ba**	3	**461.300**	ug/l	4,613.00	3.2	4500	103	P	
200	**Hg**	3	**1328.000**	ug/l	13,280.00	0.6	45	209	A	Fail
205	**Tl**	3	**0.474**	ug/l	4.74	6.2	4500	209	P	
208	**Pb**	3	**250.900**	ug/l	2,509.00	0.3	4500	209	A	
238	**U**	3	**0.331**	ug/l	3.31	5.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3252827	0.73	5119000	**63.5**	30	-	120	
45	Sc	1	195640	1.34	341400	**57.3**	30	-	120	
45	Sc	2	229481	0.76	273900	**83.8**	30	-	120	
74	Ge	1	152256	1.31	283600	**53.7**	30	-	120	
74	Ge	2	345859	1.04	422600	**81.8**	30	-	120	
74	Ge	3	1341073	1.92	1674000	**80.1**	30	-	120	
103	Rh	2	659979	1.01	814900	**81.0**	30	-	120	
103	Rh	3	1249960	2.47	1535000	**81.4**	30	-	120	
165	Ho	3	2901084	0.31	3236000	**89.7**	30	-	120	
175	Lu	3	3202416	0.95	3584000	**89.4**	30	-	120	
209	Bi	3	6595326	0.63	7619000	**86.6**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\132SMPL.D\132SMPL.D#
Date Acquired: May 28 2010 03:54 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-17-B Vial Number: 4103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.146**	ug/l	11.46	3.2	450	6	P	
23	**Na**	2	**76.880**	ug/l	768.80	5.7	450000	45	P	
24	**Mg**	2	**127200.000**	ug/l	1,272,000.00	1.1	450000	45	A	
27	**Al**	2	**30250.000**	ug/l	302,500.00	0.3	450000	45	A	
31	**P**	2	**795.200**	ug/l	7,952.00	4.1	450000	45	P	
39	**K**	2	**2870.000**	ug/l	28,700.00	1.1	450000	45	A	
44	**Ca**	2	**3244.000**	ug/l	32,440.00	1.2	450000	45	P	
47	**Ti**	2	**102.200**	ug/l	1,022.00	4.0	4500	45	P	
51	**V**	2	**98.500**	ug/l	985.00	0.7	4500	45	P	
52	**Cr**	2	**612.800**	ug/l	6,128.00	0.2	4500	45	A	
54	**Fe**	2	**107100.000**	ug/l	1,071,000.00	1.2	450000	74	A	
55	**Mn**	2	**1660.000**	ug/l	16,600.00	0.6	15000	45	A	
59	**Co**	2	**137.200**	ug/l	1,372.00	0.6	4500	45	P	
60	**Ni**	2	**2406.000**	ug/l	24,060.00	1.3	15000	45	A	
63	**Cu**	2	**72.230**	ug/l	722.30	0.3	15000	45	P	
66	**Zn**	2	**203.400**	ug/l	2,034.00	1.0	15000	45	P	
75	**As**	2	**15.540**	ug/l	155.40	1.6	4500	74	P	
78	**Se**	2	**1.177**	ug/l	11.77	46.4	4500	74	P	
88	**Sr**	3	**21.830**	ug/l	218.30	0.5	4500	74	P	
95	**Mo**	3	**1.126**	ug/l	11.26	8.4	4500	74	P	
107	**Ag**	3	**0.130**	ug/l	1.30	19.7	450	103	P	
111	**Cd**	3	**0.354**	ug/l	3.54	6.4	900	103	P	
118	**Sn**	3	**1.362**	ug/l	13.62	5.7	4500	103	P	
121	**Sb**	3	**0.549**	ug/l	5.49	4.4	4500	103	P	
135	**Ba**	3	**552.200**	ug/l	5,522.00	0.5	4500	103	P	
200	**Hg**	3	**392.900**	ug/l	3,929.00	0.1	45	209	P	Fail
205	**Tl**	3	**0.350**	ug/l	3.50	2.6	4500	209	P	
208	**Pb**	3	**27.990**	ug/l	279.90	0.5	4500	209	P	
238	**U**	3	**0.392**	ug/l	3.92	0.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3280978	0.85	5119000	**64.1**	30	-	120	
45	Sc	1	195565	1.42	341400	**57.3**	30	-	120	
45	Sc	2	236480	0.71	273900	**86.3**	30	-	120	
74	Ge	1	148021	3.80	283600	**52.2**	30	-	120	
74	Ge	2	346008	1.40	422600	**81.9**	30	-	120	
74	Ge	3	1414206	0.46	1674000	**84.5**	30	-	120	
103	Rh	2	650335	0.51	814900	**79.8**	30	-	120	
103	Rh	3	1272919	0.97	1535000	**82.9**	30	-	120	
165	Ho	3	2926850	1.30	3236000	**90.4**	30	-	120	
175	Lu	3	3266921	0.51	3584000	**91.2**	30	-	120	
209	Bi	3	6399828	0.26	7619000	**84.0**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\133SMPL.D\133SMPL.D#
Date Acquired: May 28 2010 04:01 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-18-B Vial Number: 4104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.486**	ug/l	14.86	4.0	450	6	P	
23	**Na**	2	**82.310**	ug/l	823.10	2.5	450000	45	P	
24	**Mg**	2	**33320.000**	ug/l	333,200.00	0.9	450000	45	A	
27	**Al**	2	**38950.000**	ug/l	389,500.00	0.7	450000	45	A	
31	**P**	2	**693.800**	ug/l	6,938.00	1.5	450000	45	P	
39	**K**	2	**2485.000**	ug/l	24,850.00	2.1	450000	45	M	
44	**Ca**	2	**1622.000**	ug/l	16,220.00	3.0	450000	45	P	
47	**Ti**	2	**56.270**	ug/l	562.70	2.9	4500	45	P	
51	**V**	2	**99.870**	ug/l	998.70	0.8	4500	45	P	
52	**Cr**	2	**417.300**	ug/l	4,173.00	1.5	4500	45	A	
54	**Fe**	2	**89170.000**	ug/l	891,700.00	1.5	450000	74	A	
55	**Mn**	2	**2186.000**	ug/l	21,860.00	0.7	15000	45	A	
59	**Co**	2	**79.940**	ug/l	799.40	0.6	4500	45	P	
60	**Ni**	2	**951.600**	ug/l	9,516.00	0.1	15000	45	P	
63	**Cu**	2	**144.500**	ug/l	1,445.00	0.6	15000	45	P	
66	**Zn**	2	**176.800**	ug/l	1,768.00	0.7	15000	45	P	
75	**As**	2	**21.180**	ug/l	211.80	1.7	4500	74	P	
78	**Se**	2	**0.504**	ug/l	5.04	81.1	4500	74	P	
88	**Sr**	3	**21.830**	ug/l	218.30	0.8	4500	74	P	
95	**Mo**	3	**5.156**	ug/l	51.56	1.5	4500	74	P	
107	**Ag**	3	**0.068**	ug/l	0.68	16.3	450	103	P	
111	**Cd**	3	**0.277**	ug/l	2.77	10.1	900	103	P	
118	**Sn**	3	**1.425**	ug/l	14.25	4.0	4500	103	P	
121	**Sb**	3	**0.479**	ug/l	4.79	7.6	4500	103	P	
135	**Ba**	3	**649.700**	ug/l	6,497.00	0.8	4500	103	P	
200	**Hg**	3	**349.300**	ug/l	3,493.00	0.7	45	209	P	Fail
205	**Tl**	3	**0.330**	ug/l	3.30	6.3	4500	209	P	
208	**Pb**	3	**33.110**	ug/l	331.10	0.8	4500	209	P	
238	**U**	3	**0.257**	ug/l	2.57	2.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3414273	1.21	5119000	**66.7**	30	-	120	
45	Sc	1	192762	0.51	341400	**56.5**	30	-	120	
45	Sc	2	238401	0.44	273900	**87.0**	30	-	120	
74	Ge	1	146889	2.39	283600	**51.8**	30	-	120	
74	Ge	2	354074	0.38	422600	**83.8**	30	-	120	
74	Ge	3	1466972	0.81	1674000	**87.6**	30	-	120	
103	Rh	2	665774	0.69	814900	**81.7**	30	-	120	
103	Rh	3	1341915	1.12	1535000	**87.4**	30	-	120	
165	Ho	3	3015882	1.30	3236000	**93.2**	30	-	120	
175	Lu	3	3357165	0.59	3584000	**93.7**	30	-	120	
209	Bi	3	6711187	0.98	7619000	**88.1**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\134SMPL.D\134SMPL.D#
Date Acquired: May 28 2010 04:08 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-19-B Vial Number: 4105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.141**	ug/l	11.41	2.4	450	6	P	
23	**Na**	2	**136.300**	ug/l	1,363.00	1.2	450000	45	P	
24	**Mg**	2	**29800.000**	ug/l	298,000.00	0.9	450000	45	A	
27	**Al**	2	**31190.000**	ug/l	311,900.00	0.7	450000	45	A	
31	**P**	2	**949.200**	ug/l	9,492.00	4.9	450000	45	P	
39	**K**	2	**3289.000**	ug/l	32,890.00	1.7	450000	45	A	
44	**Ca**	2	**4192.000**	ug/l	41,920.00	0.2	450000	45	P	
47	**Ti**	2	**127.200**	ug/l	1,272.00	3.4	4500	45	P	
51	**V**	2	**89.280**	ug/l	892.80	1.1	4500	45	P	
52	**Cr**	2	**367.500**	ug/l	3,675.00	0.5	4500	45	P	
54	**Fe**	2	**78270.000**	ug/l	782,700.00	1.5	450000	74	A	
55	**Mn**	2	**1670.000**	ug/l	16,700.00	1.2	15000	45	A	
59	**Co**	2	**77.920**	ug/l	779.20	0.8	4500	45	P	
60	**Ni**	2	**1142.000**	ug/l	11,420.00	0.7	15000	45	P	
63	**Cu**	2	**93.510**	ug/l	935.10	0.6	15000	45	P	
66	**Zn**	2	**233.200**	ug/l	2,332.00	1.0	15000	45	P	
75	**As**	2	**14.220**	ug/l	142.20	1.8	4500	74	P	
78	**Se**	2	**-0.132**	ug/l	-1.32	232.9	4500	74	P	
88	**Sr**	3	**41.720**	ug/l	417.20	0.6	4500	74	P	
95	**Mo**	3	**3.515**	ug/l	35.15	3.9	4500	74	P	
107	**Ag**	3	**0.125**	ug/l	1.25	9.4	450	103	P	
111	**Cd**	3	**0.487**	ug/l	4.87	16.8	900	103	P	
118	**Sn**	3	**1.998**	ug/l	19.98	1.8	4500	103	P	
121	**Sb**	3	**1.292**	ug/l	12.92	0.6	4500	103	P	
135	**Ba**	3	**551.600**	ug/l	5,516.00	0.2	4500	103	P	
200	**Hg**	3	**1052.000**	ug/l	10,520.00	1.1	45	209	A	Fail
205	**Tl**	3	**0.303**	ug/l	3.03	3.2	4500	209	P	
208	**Pb**	3	**126.500**	ug/l	1,265.00	0.7	4500	209	A	
238	**U**	3	**0.362**	ug/l	3.62	1.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3504359	0.71	5119000	**68.5**	30	-	120	
45	Sc	1	186564	0.22	341400	**54.6**	30	-	120	
45	Sc	2	241439	0.52	273900	**88.1**	30	-	120	
74	Ge	1	143797	1.45	283600	**50.7**	30	-	120	
74	Ge	2	357348	1.10	422600	**84.6**	30	-	120	
74	Ge	3	1463543	0.48	1674000	**87.4**	30	-	120	
103	Rh	2	682146	1.36	814900	**83.7**	30	-	120	
103	Rh	3	1339332	0.52	1535000	**87.3**	30	-	120	
165	Ho	3	3045249	0.66	3236000	**94.1**	30	-	120	
175	Lu	3	3340997	1.56	3584000	**93.2**	30	-	120	
209	Bi	3	6767508	1.21	7619000	**88.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\135SMPL.D\135SMPL.D#
Date Acquired: May 28 2010 04:15 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-20-B Vial Number: 4106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.886**	ug/l	8.86	1.2	450	6	P	
23	**Na**	2	**67.060**	ug/l	670.60	4.0	450000	45	P	
24	**Mg**	2	**83020.000**	ug/l	830,200.00	1.7	450000	45	A	
27	**Al**	2	**22090.000**	ug/l	220,900.00	1.2	450000	45	A	
31	**P**	2	**692.600**	ug/l	6,926.00	1.9	450000	45	P	
39	**K**	2	**2000.000**	ug/l	20,000.00	1.7	450000	45	P	
44	**Ca**	2	**3347.000**	ug/l	33,470.00	3.3	450000	45	P	
47	**Ti**	2	**101.300**	ug/l	1,013.00	3.8	4500	45	P	
51	**V**	2	**82.950**	ug/l	829.50	1.8	4500	45	P	
52	**Cr**	2	**451.000**	ug/l	4,510.00	0.9	4500	45	A	
54	**Fe**	2	**85500.000**	ug/l	855,000.00	1.9	450000	74	A	
55	**Mn**	2	**1502.000**	ug/l	15,020.00	1.7	15000	45	A	
59	**Co**	2	**113.800**	ug/l	1,138.00	1.4	4500	45	P	
60	**Ni**	2	**1972.000**	ug/l	19,720.00	2.0	15000	45	A	
63	**Cu**	2	**55.210**	ug/l	552.10	1.8	15000	45	P	
66	**Zn**	2	**121.400**	ug/l	1,214.00	0.7	15000	45	P	
75	**As**	2	**14.800**	ug/l	148.00	5.5	4500	74	P	
78	**Se**	2	**0.861**	ug/l	8.61	32.1	4500	74	P	
88	**Sr**	3	**18.800**	ug/l	188.00	0.9	4500	74	P	
95	**Mo**	3	**0.642**	ug/l	6.42	6.2	4500	74	P	
107	**Ag**	3	**0.080**	ug/l	0.80	10.9	450	103	P	
111	**Cd**	3	**0.227**	ug/l	2.27	19.5	900	103	P	
118	**Sn**	3	**0.866**	ug/l	8.66	1.8	4500	103	P	
121	**Sb**	3	**0.509**	ug/l	5.09	4.1	4500	103	P	
135	**Ba**	3	**356.700**	ug/l	3,567.00	0.5	4500	103	P	
200	**Hg**	3	**197.700**	ug/l	1,977.00	1.9	45	209	P	Fail
205	**Tl**	3	**0.254**	ug/l	2.54	5.1	4500	209	P	
208	**Pb**	3	**44.950**	ug/l	449.50	1.3	4500	209	P	
238	**U**	3	**0.320**	ug/l	3.20	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3386836	0.54	5119000	**66.2**	30	-	120	
45	Sc	1	164796	1.36	341400	**48.3**	30	-	120	
45	Sc	2	237012	0.67	273900	**86.5**	30	-	120	
74	Ge	1	128234	2.32	283600	**45.2**	30	-	120	
74	Ge	2	354926	0.93	422600	**84.0**	30	-	120	
74	Ge	3	1435823	0.94	1674000	**85.8**	30	-	120	
103	Rh	2	668284	1.48	814900	**82.0**	30	-	120	
103	Rh	3	1291272	1.16	1535000	**84.1**	30	-	120	
165	Ho	3	2956301	0.34	3236000	**91.4**	30	-	120	
175	Lu	3	3278151	0.70	3584000	**91.5**	30	-	120	
209	Bi	3	6464435	0.99	7619000	**84.8**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\136SMPL.D\136SMPL.D#
Date Acquired: May 28 2010 04:22 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-21-B Vial Number: 4107
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.087**	ug/l	0.87	6.7	450	6	P	
23	**Na**	2	**90.120**	ug/l	901.20	3.2	450000	45	P	
24	**Mg**	2	**4803.000**	ug/l	48,030.00	0.7	450000	45	A	
27	**Al**	2	**13980.000**	ug/l	139,800.00	1.7	450000	45	A	
31	**P**	2	**221.600**	ug/l	2,216.00	1.8	450000	45	P	
39	**K**	2	**1101.000**	ug/l	11,010.00	1.7	450000	45	P	
44	**Ca**	2	**369.200**	ug/l	3,692.00	4.8	450000	45	P	
47	**Ti**	2	**10.350**	ug/l	103.50	9.3	4500	45	P	
51	**V**	2	**67.850**	ug/l	678.50	0.9	4500	45	P	
52	**Cr**	2	**470.700**	ug/l	4,707.00	2.0	4500	45	A	
54	**Fe**	2	**171200.000**	ug/l	1,712,000.00	0.4	450000	74	A	
55	**Mn**	2	**141.400**	ug/l	1,414.00	0.6	15000	45	P	
59	**Co**	2	**68.430**	ug/l	684.30	0.8	4500	45	P	
60	**Ni**	2	**489.200**	ug/l	4,892.00	1.1	15000	45	P	
63	**Cu**	2	**76.290**	ug/l	762.90	1.7	15000	45	P	
66	**Zn**	2	**90.950**	ug/l	909.50	0.7	15000	45	P	
75	**As**	2	**12.220**	ug/l	122.20	4.5	4500	74	P	
78	**Se**	2	**0.874**	ug/l	8.74	75.8	4500	74	P	
88	**Sr**	3	**11.200**	ug/l	112.00	0.9	4500	74	P	
95	**Mo**	3	**1.590**	ug/l	15.90	1.2	4500	74	P	
107	**Ag**	3	**0.125**	ug/l	1.25	14.0	450	103	P	
111	**Cd**	3	**0.013**	ug/l	0.13	153.5	900	103	P	
118	**Sn**	3	**1.303**	ug/l	13.03	4.8	4500	103	P	
121	**Sb**	3	**0.387**	ug/l	3.87	2.7	4500	103	P	
135	**Ba**	3	**185.700**	ug/l	1,857.00	2.7	4500	103	P	
200	**Hg**	3	**3348.000**	ug/l	33,480.00	0.5	45	209	A	Fail
205	**Tl**	3	**6.299**	ug/l	62.99	1.3	4500	209	P	
208	**Pb**	3	**14.110**	ug/l	141.10	1.5	4500	209	P	
238	**U**	3	**0.172**	ug/l	1.72	2.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	2982550	1.39	5119000	**58.3**	30	-	120	
45	Sc	1	160661	0.55	341400	**47.1**	30	-	120	
45	Sc	2	212444	2.03	273900	**77.6**	30	-	120	
74	Ge	1	130605	0.31	283600	**46.1**	30	-	120	
74	Ge	2	332379	0.40	422600	**78.7**	30	-	120	
74	Ge	3	1320119	0.44	1674000	**78.9**	30	-	120	
103	Rh	2	644718	0.87	814900	**79.1**	30	-	120	
103	Rh	3	1255091	1.83	1535000	**81.8**	30	-	120	
165	Ho	3	2894699	1.20	3236000	**89.5**	30	-	120	
175	Lu	3	3255822	0.83	3584000	**90.8**	30	-	120	
209	Bi	3	6688028	0.34	7619000	**87.8**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\137SMPL.D\137SMPL.D#
Date Acquired: May 28 2010 04:29 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-22-B Vial Number: 4108
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.026**	ug/l	0.26	14.2	450	6	P	
23	**Na**	2	**56.170**	ug/l	561.70	0.5	450000	45	P	
24	**Mg**	2	**244100.000**	ug/l	2,441,000.00	2.2	450000	45	A	
27	**Al**	2	**3728.000**	ug/l	37,280.00	0.7	450000	45	P	
31	**P**	2	**284.900**	ug/l	2,849.00	3.5	450000	45	P	
39	**K**	2	**193.900**	ug/l	1,939.00	2.5	450000	45	P	
44	**Ca**	2	**1246.000**	ug/l	12,460.00	0.7	450000	45	P	
47	**Ti**	2	**36.970**	ug/l	369.70	1.3	4500	45	P	
51	**V**	2	**44.140**	ug/l	441.40	2.0	4500	45	P	
52	**Cr**	2	**1505.000**	ug/l	15,050.00	1.4	4500	45	A	
54	**Fe**	2	**127800.000**	ug/l	1,278,000.00	0.7	450000	74	A	
55	**Mn**	2	**1969.000**	ug/l	19,690.00	0.9	15000	45	A	
59	**Co**	2	**230.400**	ug/l	2,304.00	0.5	4500	45	P	
60	**Ni**	2	**4423.000**	ug/l	44,230.00	1.1	15000	45	A	
63	**Cu**	2	**14.510**	ug/l	145.10	1.5	15000	45	P	
66	**Zn**	2	**72.980**	ug/l	729.80	1.9	15000	45	P	
75	**As**	2	**1.980**	ug/l	19.80	6.8	4500	74	P	
78	**Se**	2	**0.014**	ug/l	0.14	3209.6	4500	74	P	
88	**Sr**	3	**7.712**	ug/l	77.12	2.0	4500	74	P	
95	**Mo**	3	**0.347**	ug/l	3.47	13.3	4500	74	P	
107	**Ag**	3	**0.029**	ug/l	0.29	38.4	450	103	P	
111	**Cd**	3	**0.055**	ug/l	0.55	62.9	900	103	P	
118	**Sn**	3	**0.210**	ug/l	2.10	3.6	4500	103	P	
121	**Sb**	3	**0.124**	ug/l	1.24	13.7	4500	103	P	
135	**Ba**	3	**45.040**	ug/l	450.40	2.0	4500	103	P	
200	**Hg**	3	**142.600**	ug/l	1,426.00	1.5	45	209	P	Fail
205	**Tl**	3	**0.185**	ug/l	1.85	5.2	4500	209	P	
208	**Pb**	3	**13.640**	ug/l	136.40	0.9	4500	209	P	
238	**U**	3	**0.034**	ug/l	0.34	2.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3033401	0.38	5119000	**59.3**	30	-	120	
45	Sc	1	161900	3.01	341400	**47.4**	30	-	120	
45	Sc	2	224571	1.54	273900	**82.0**	30	-	120	
74	Ge	1	121423	2.77	283600	**42.8**	30	-	120	
74	Ge	2	330868	0.78	422600	**78.3**	30	-	120	
74	Ge	3	1339207	1.90	1674000	**80.0**	30	-	120	
103	Rh	2	620570	1.81	814900	**76.2**	30	-	120	
103	Rh	3	1218450	1.40	1535000	**79.4**	30	-	120	
165	Ho	3	2838514	0.95	3236000	**87.7**	30	-	120	
175	Lu	3	3182626	0.56	3584000	**88.8**	30	-	120	
209	Bi	3	6206236	0.79	7619000	**81.5**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\138SMPL.D\138SMPL.D#
Date Acquired: May 28 2010 04:36 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-23-B Vial Number: 4109
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.561**	ug/l	5.61	1.4	450	6	P	
23	**Na**	2	**203.500**	ug/l	2,035.00	1.9	450000	45	P	
24	**Mg**	2	**27240.000**	ug/l	272,400.00	0.6	450000	45	A	
27	**Al**	2	**18470.000**	ug/l	184,700.00	0.6	450000	45	A	
31	**P**	2	**608.200**	ug/l	6,082.00	3.3	450000	45	P	
39	**K**	2	**1922.000**	ug/l	19,220.00	1.2	450000	45	P	
44	**Ca**	2	**6406.000**	ug/l	64,060.00	1.0	450000	45	P	
47	**Ti**	2	**332.500**	ug/l	3,325.00	0.3	4500	45	P	
51	**V**	2	**46.010**	ug/l	460.10	1.7	4500	45	P	
52	**Cr**	2	**249.400**	ug/l	2,494.00	1.1	4500	45	P	
54	**Fe**	2	**38770.000**	ug/l	387,700.00	0.4	450000	74	A	
55	**Mn**	2	**689.100**	ug/l	6,891.00	1.1	15000	45	A	
59	**Co**	2	**38.440**	ug/l	384.40	0.7	4500	45	P	
60	**Ni**	2	**538.600**	ug/l	5,386.00	0.3	15000	45	P	
63	**Cu**	2	**24.680**	ug/l	246.80	2.2	15000	45	P	
66	**Zn**	2	**74.920**	ug/l	749.20	1.7	15000	45	P	
75	**As**	2	**8.622**	ug/l	86.22	1.8	4500	74	P	
78	**Se**	2	**0.449**	ug/l	4.49	95.1	4500	74	P	
88	**Sr**	3	**52.640**	ug/l	526.40	1.2	4500	74	P	
95	**Mo**	3	**0.834**	ug/l	8.34	11.3	4500	74	P	
107	**Ag**	3	**0.071**	ug/l	0.71	13.4	450	103	P	
111	**Cd**	3	**0.352**	ug/l	3.52	5.4	900	103	P	
118	**Sn**	3	**2.956**	ug/l	29.56	2.8	4500	103	P	
121	**Sb**	3	**0.588**	ug/l	5.88	1.4	4500	103	P	
135	**Ba**	3	**242.800**	ug/l	2,428.00	2.2	4500	103	P	
200	**Hg**	3	**485.000**	ug/l	4,850.00	0.8	45	209	P	Fail
205	**Tl**	3	**0.238**	ug/l	2.38	2.3	4500	209	P	
208	**Pb**	3	**148.000**	ug/l	1,480.00	1.2	4500	209	A	
238	**U**	3	**0.708**	ug/l	7.08	4.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3499672	1.60	5119000	**68.4**	30	-	120	
45	Sc	1	160951	0.76	341400	**47.1**	30	-	120	
45	Sc	2	218466	0.13	273900	**79.8**	30	-	120	
74	Ge	1	129709	1.40	283600	**45.7**	30	-	120	
74	Ge	2	344022	0.46	422600	**81.4**	30	-	120	
74	Ge	3	1406930	1.36	1674000	**84.0**	30	-	120	
103	Rh	2	655492	0.82	814900	**80.4**	30	-	120	
103	Rh	3	1276763	1.04	1535000	**83.2**	30	-	120	
165	Ho	3	2926571	0.52	3236000	**90.4**	30	-	120	
175	Lu	3	3260625	0.76	3584000	**91.0**	30	-	120	
209	Bi	3	6726614	0.46	7619000	**88.3**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\139SMPL.D\139SMPL.D#
Date Acquired: May 28 2010 04:43 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-24-B Vial Number: 4110
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.010**	ug/l	0.10	16.5	450	6	P	
23	**Na**	2	**31.750**	ug/l	317.50	20.4	450000	45	P	
24	**Mg**	2	**880.100**	ug/l	8,801.00	1.9	450000	45	P	
27	**Al**	2	**165.300**	ug/l	1,653.00	14.7	450000	45	P	
31	**P**	2	**9.406**	ug/l	94.06	44.7	450000	45	P	
39	**K**	2	**195.300**	ug/l	1,953.00	20.2	450000	45	P	
44	**Ca**	2	**139.800**	ug/l	1,398.00	5.8	450000	45	P	
47	**Ti**	2	**13.000**	ug/l	130.00	25.2	4500	45	P	
51	**V**	2	**0.042**	ug/l	0.42	148.4	4500	45	P	
52	**Cr**	2	**2.283**	ug/l	22.83	6.6	4500	45	P	
54	**Fe**	2	**326.400**	ug/l	3,264.00	3.4	450000	74	P	
55	**Mn**	2	**9.113**	ug/l	91.13	3.0	15000	45	P	
59	**Co**	2	**1.014**	ug/l	10.14	0.2	4500	45	P	
60	**Ni**	2	**11.390**	ug/l	113.90	11.2	15000	45	P	
63	**Cu**	2	**1.962**	ug/l	19.62	2.3	15000	45	P	
66	**Zn**	2	**0.622**	ug/l	6.22	12.0	15000	45	P	
75	**As**	2	**0.137**	ug/l	1.37	19.7	4500	74	P	
78	**Se**	2	**-0.217**	ug/l	-2.17	122.5	4500	74	P	
88	**Sr**	3	**1.179**	ug/l	11.79	3.5	4500	74	P	
95	**Mo**	3	**0.068**	ug/l	0.68	57.4	4500	74	P	
107	**Ag**	3	**-0.003**	ug/l	-0.03	24.2	450	103	P	
111	**Cd**	3	**-0.007**	ug/l	-0.07	121.3	900	103	P	
118	**Sn**	3	**0.029**	ug/l	0.29	40.8	4500	103	P	
121	**Sb**	3	**0.013**	ug/l	0.13	67.7	4500	103	P	
135	**Ba**	3	**3.362**	ug/l	33.62	5.7	4500	103	P	
200	**Hg**	3	**97.030**	ug/l	970.30	4.6	45	209	P	Fail
205	**Tl**	3	**0.081**	ug/l	0.81	12.7	4500	209	P	
208	**Pb**	3	**9.390**	ug/l	93.90	1.0	4500	209	P	
238	**U**	3	**0.005**	ug/l	0.05	104.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3953365	0.94	5119000	**77.2**	30	-	120	
45	Sc	1	166251	1.48	341400	**48.7**	30	-	120	
45	Sc	2	215942	2.10	273900	**78.8**	30	-	120	
74	Ge	1	138752	2.19	283600	**48.9**	30	-	120	
74	Ge	2	353750	1.22	422600	**83.7**	30	-	120	
74	Ge	3	1403868	1.70	1674000	**83.9**	30	-	120	
103	Rh	2	690236	1.06	814900	**84.7**	30	-	120	
103	Rh	3	1313554	1.01	1535000	**85.6**	30	-	120	
165	Ho	3	2902084	1.41	3236000	**89.7**	30	-	120	
175	Lu	3	3284780	0.18	3584000	**91.7**	30	-	120	
209	Bi	3	6897725	0.97	7619000	**90.5**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\140SMPL.D\140SMPL.D#
Date Acquired: May 28 2010 04:50 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**50.890**	ug/l	50.89	1.4	450	6	P	
23	**Na**	2	**5007.000**	ug/l	5,007.00	0.6	450000	45	A	
24	**Mg**	2	**5096.000**	ug/l	5,096.00	0.9	450000	45	A	
27	**Al**	2	**492.800**	ug/l	492.80	1.0	450000	45	P	
31	**P**	2	**4865.000**	ug/l	4,865.00	0.3	450000	45	P	
39	**K**	2	**5159.000**	ug/l	5,159.00	1.9	450000	45	A	
44	**Ca**	2	**5208.000**	ug/l	5,208.00	1.8	450000	45	P	
47	**Ti**	2	**51.980**	ug/l	51.98	2.4	4500	45	P	
51	**V**	2	**52.470**	ug/l	52.47	0.8	4500	45	P	
52	**Cr**	2	**52.590**	ug/l	52.59	1.2	4500	45	P	
54	**Fe**	2	**5172.000**	ug/l	5,172.00	1.6	450000	74	P	
55	**Mn**	2	**53.220**	ug/l	53.22	0.6	15000	45	P	
59	**Co**	2	**53.420**	ug/l	53.42	0.7	4500	45	P	
60	**Ni**	2	**54.760**	ug/l	54.76	0.8	15000	45	P	
63	**Cu**	2	**53.830**	ug/l	53.83	1.6	15000	45	P	
66	**Zn**	2	**52.910**	ug/l	52.91	1.7	15000	45	P	
75	**As**	2	**51.860**	ug/l	51.86	1.6	4500	74	P	
78	**Se**	2	**49.680**	ug/l	49.68	3.6	4500	74	P	
88	**Sr**	3	**53.360**	ug/l	53.36	1.9	4500	74	P	
95	**Mo**	3	**53.420**	ug/l	53.42	2.5	4500	74	P	
107	**Ag**	3	**52.520**	ug/l	52.52	1.8	450	103	P	
111	**Cd**	3	**52.320**	ug/l	52.32	3.0	900	103	P	
118	**Sn**	3	**52.640**	ug/l	52.64	3.3	4500	103	P	
121	**Sb**	3	**53.140**	ug/l	53.14	3.8	4500	103	P	
135	**Ba**	3	**54.520**	ug/l	54.52	3.8	4500	103	P	
200	**Hg**	3	**26.470**	ug/l	26.47	1.8	45	209	P	
205	**Tl**	3	**51.890**	ug/l	51.89	2.1	4500	209	P	
208	**Pb**	3	**52.910**	ug/l	52.91	1.4	4500	209	P	
238	**U**	3	**52.120**	ug/l	52.12	2.6	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3881033	0.39	5119000	**75.8**	30	-	120	
45	Sc	1	167636	1.32	341400	**49.1**	30	-	120	
45	Sc	2	218500	0.63	273900	**79.8**	30	-	120	
74	Ge	1	144346	1.70	283600	**50.9**	30	-	120	
74	Ge	2	354020	1.00	422600	**83.8**	30	-	120	
74	Ge	3	1442473	0.69	1674000	**86.2**	30	-	120	
103	Rh	2	686176	0.59	814900	**84.2**	30	-	120	
103	Rh	3	1309092	2.16	1535000	**85.3**	30	-	120	
165	Ho	3	2947787	1.46	3236000	**91.1**	30	-	120	
175	Lu	3	3293928	1.26	3584000	**91.9**	30	-	120	
209	Bi	3	6841933	0.91	7619000	**89.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\141SMPL.D\141SMPL.D#
Date Acquired: May 28 2010 04:58 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.014**	ug/l	0.01	19.8	450	6	P	
23	**Na**	2	**3.761**	ug/l	3.76	18.7	450000	45	P	
24	**Mg**	2	**3.477**	ug/l	3.48	8.2	450000	45	P	
27	**Al**	2	**0.801**	ug/l	0.80	16.1	450000	45	P	
31	**P**	2	**-7.462**	ug/l	-7.46	70.5	450000	45	P	
39	**K**	2	**5.011**	ug/l	5.01	88.3	450000	45	P	
44	**Ca**	2	**2.638**	ug/l	2.64	64.8	450000	45	P	
47	**Ti**	2	**0.027**	ug/l	0.03	96.4	4500	45	P	
51	**V**	2	**-0.070**	ug/l	-0.07	71.9	4500	45	P	
52	**Cr**	2	**0.026**	ug/l	0.03	36.3	4500	45	P	
54	**Fe**	2	**2.356**	ug/l	2.36	10.8	450000	74	P	
55	**Mn**	2	**0.148**	ug/l	0.15	12.2	15000	45	P	
59	**Co**	2	**0.023**	ug/l	0.02	13.0	4500	45	P	
60	**Ni**	2	**0.103**	ug/l	0.10	12.4	15000	45	P	
63	**Cu**	2	**0.029**	ug/l	0.03	42.1	15000	45	P	
66	**Zn**	2	**0.068**	ug/l	0.07	80.3	15000	45	P	
75	**As**	2	**-0.051**	ug/l	-0.05	55.4	4500	74	P	
78	**Se**	2	**0.038**	ug/l	0.04	692.3	4500	74	P	
88	**Sr**	3	**0.014**	ug/l	0.01	30.4	4500	74	P	
95	**Mo**	3	**0.009**	ug/l	0.01	227.6	4500	74	P	
107	**Ag**	3	**0.016**	ug/l	0.02	88.2	450	103	P	
111	**Cd**	3	**0.016**	ug/l	0.02	15.8	900	103	P	
118	**Sn**	3	**0.030**	ug/l	0.03	37.6	4500	103	P	
121	**Sb**	3	**0.024**	ug/l	0.02	49.5	4500	103	P	
135	**Ba**	3	**0.027**	ug/l	0.03	56.7	4500	103	P	
200	**Hg**	3	**22.730**	ug/l	22.73	15.5	45	209	P	
205	**Tl**	3	**0.425**	ug/l	0.42	12.1	4500	209	P	
208	**Pb**	3	**0.021**	ug/l	0.02	22.1	4500	209	P	
238	**U**	3	**0.012**	ug/l	0.01	17.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3534278	10.97	5119000	**69.0**	30	-	120	
45	Sc	1	175653	2.23	341400	**51.5**	30	-	120	
45	Sc	2	216115	1.18	273900	**78.9**	30	-	120	
74	Ge	1	150205	1.69	283600	**53.0**	30	-	120	
74	Ge	2	361146	0.74	422600	**85.5**	30	-	120	
74	Ge	3	1360483	12.25	1674000	**81.3**	30	-	120	
103	Rh	2	707518	1.61	814900	**86.8**	30	-	120	
103	Rh	3	1300234	12.92	1535000	**84.7**	30	-	120	
165	Ho	3	2848839	16.82	3236000	**88.0**	30	-	120	
175	Lu	3	3167322	15.73	3584000	**88.4**	30	-	120	
209	Bi	3	6833408	13.16	7619000	**89.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\142SMPL.D\142SMPL.D#
Date Acquired: May 28 2010 05:05 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-25-B Vial Number: 4201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.006**	ug/l	0.06	28.9	450	6	P	
23	**Na**	2	**37.900**	ug/l	379.00	9.9	450000	45	P	
24	**Mg**	2	**602.700**	ug/l	6,027.00	0.7	450000	45	P	
27	**Al**	2	**33.800**	ug/l	338.00	10.8	450000	45	P	
31	**P**	2	**49.590**	ug/l	495.90	12.2	450000	45	P	
39	**K**	2	**233.100**	ug/l	2,331.00	2.6	450000	45	P	
44	**Ca**	2	**618.400**	ug/l	6,184.00	2.5	450000	45	P	
47	**Ti**	2	**0.794**	ug/l	7.94	22.6	4500	45	P	
51	**V**	2	**-0.129**	ug/l	-1.29	23.4	4500	45	P	
52	**Cr**	2	**1.521**	ug/l	15.21	11.2	4500	45	P	
54	**Fe**	2	**145.400**	ug/l	1,454.00	13.0	450000	74	P	
55	**Mn**	2	**14.300**	ug/l	143.00	2.1	15000	45	P	
59	**Co**	2	**0.859**	ug/l	8.59	5.1	4500	45	P	
60	**Ni**	2	**9.652**	ug/l	96.52	4.4	15000	45	P	
63	**Cu**	2	**0.414**	ug/l	4.14	22.7	15000	45	P	
66	**Zn**	2	**0.730**	ug/l	7.30	10.1	15000	45	P	
75	**As**	2	**-0.049**	ug/l	-0.49	14.9	4500	74	P	
78	**Se**	2	**-0.576**	ug/l	-5.76	27.1	4500	74	P	
88	**Sr**	3	**4.189**	ug/l	41.89	1.9	4500	74	P	
95	**Mo**	3	**0.057**	ug/l	0.57	26.9	4500	74	P	
107	**Ag**	3	**-0.001**	ug/l	-0.01	191.2	450	103	P	
111	**Cd**	3	**0.002**	ug/l	0.02	247.1	900	103	P	
118	**Sn**	3	**0.011**	ug/l	0.11	35.9	4500	103	P	
121	**Sb**	3	**0.017**	ug/l	0.17	9.1	4500	103	P	
135	**Ba**	3	**4.995**	ug/l	49.95	1.0	4500	103	P	
200	**Hg**	3	**40.310**	ug/l	403.10	3.3	45	209	P	
205	**Tl**	3	**0.182**	ug/l	1.82	3.2	4500	209	P	
208	**Pb**	3	**6.927**	ug/l	69.27	6.5	4500	209	P	
238	**U**	3	**0.003**	ug/l	0.03	50.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3875210	0.23	5119000	**75.7**	30	-	120	
45	Sc	1	178167	0.57	341400	**52.2**	30	-	120	
45	Sc	2	216335	1.64	273900	**79.0**	30	-	120	
74	Ge	1	153056	0.41	283600	**54.0**	30	-	120	
74	Ge	2	355049	0.49	422600	**84.0**	30	-	120	
74	Ge	3	1428831	0.68	1674000	**85.4**	30	-	120	
103	Rh	2	695164	1.48	814900	**85.3**	30	-	120	
103	Rh	3	1345769	1.46	1535000	**87.7**	30	-	120	
165	Ho	3	2926203	0.61	3236000	**90.4**	30	-	120	
175	Lu	3	3235414	0.39	3584000	**90.3**	30	-	120	
209	Bi	3	6997524	0.52	7619000	**91.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\143SMPL.D\143SMPL.D#
Date Acquired: May 28 2010 05:12 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-26-B Vial Number: 4202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.007**	ug/l	0.07	8.0	450	6	P	
23	**Na**	2	**19.940**	ug/l	199.40	12.7	450000	45	P	
24	**Mg**	2	**362.400**	ug/l	3,624.00	5.0	450000	45	P	
27	**Al**	2	**124.800**	ug/l	1,248.00	8.9	450000	45	P	
31	**P**	2	**57.810**	ug/l	578.10	23.1	450000	45	P	
39	**K**	2	**351.500**	ug/l	3,515.00	4.0	450000	45	P	
44	**Ca**	2	**286.800**	ug/l	2,868.00	3.4	450000	45	P	
47	**Ti**	2	**3.916**	ug/l	39.16	9.8	4500	45	P	
51	**V**	2	**0.196**	ug/l	1.96	23.6	4500	45	P	
52	**Cr**	2	**1.049**	ug/l	10.49	14.7	4500	45	P	
54	**Fe**	2	**156.600**	ug/l	1,566.00	22.7	450000	74	P	
55	**Mn**	2	**68.970**	ug/l	689.70	1.8	15000	45	P	
59	**Co**	2	**0.634**	ug/l	6.34	3.7	4500	45	P	
60	**Ni**	2	**5.777**	ug/l	57.77	4.1	15000	45	P	
63	**Cu**	2	**4.460**	ug/l	44.60	2.7	15000	45	P	
66	**Zn**	2	**5.961**	ug/l	59.61	8.5	15000	45	P	
75	**As**	2	**0.058**	ug/l	0.58	34.1	4500	74	P	
78	**Se**	2	**-0.050**	ug/l	-0.50	1331.4	4500	74	P	
88	**Sr**	3	**2.408**	ug/l	24.08	0.9	4500	74	P	
95	**Mo**	3	**0.138**	ug/l	1.38	9.9	4500	74	P	
107	**Ag**	3	**-0.001**	ug/l	-0.01	90.7	450	103	P	
111	**Cd**	3	**0.009**	ug/l	0.09	40.3	900	103	P	
118	**Sn**	3	**0.003**	ug/l	0.03	102.3	4500	103	P	
121	**Sb**	3	**0.201**	ug/l	2.01	3.2	4500	103	P	
135	**Ba**	3	**26.170**	ug/l	261.70	1.2	4500	103	P	
200	**Hg**	3	**37.200**	ug/l	372.00	0.7	45	209	P	
205	**Tl**	3	**0.125**	ug/l	1.25	2.8	4500	209	P	
208	**Pb**	3	**2.569**	ug/l	25.69	2.9	4500	209	P	
238	**U**	3	**0.003**	ug/l	0.03	84.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3976026	0.41	5119000	**77.7**	30	-	120	
45	Sc	1	177321	1.54	341400	**51.9**	30	-	120	
45	Sc	2	219601	1.19	273900	**80.2**	30	-	120	
74	Ge	1	154339	0.30	283600	**54.4**	30	-	120	
74	Ge	2	361727	0.47	422600	**85.6**	30	-	120	
74	Ge	3	1435482	1.09	1674000	**85.8**	30	-	120	
103	Rh	2	702470	1.18	814900	**86.2**	30	-	120	
103	Rh	3	1339855	0.83	1535000	**87.3**	30	-	120	
165	Ho	3	2933177	1.12	3236000	**90.6**	30	-	120	
175	Lu	3	3256314	1.57	3584000	**90.9**	30	-	120	
209	Bi	3	7012506	0.61	7619000	**92.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\144SMPL.D\144SMPL.D#
Date Acquired: May 28 2010 05:19 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-27-B Vial Number: 4203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.009**	ug/l	0.09	44.6	450	6	P	
23	**Na**	2	**40.380**	ug/l	403.80	58.5	450000	45	P	
24	**Mg**	2	**299.200**	ug/l	2,992.00	3.4	450000	45	P	
27	**Al**	2	**392.100**	ug/l	3,921.00	6.7	450000	45	P	
31	**P**	2	**2.976**	ug/l	29.76	164.2	450000	45	P	
39	**K**	2	**241.300**	ug/l	2,413.00	10.9	450000	45	P	
44	**Ca**	2	**113.400**	ug/l	1,134.00	8.6	450000	45	P	
47	**Ti**	2	**14.850**	ug/l	148.50	4.8	4500	45	P	
51	**V**	2	**0.821**	ug/l	8.21	19.4	4500	45	P	
52	**Cr**	2	**1.010**	ug/l	10.10	5.2	4500	45	P	
54	**Fe**	2	**352.300**	ug/l	3,523.00	7.3	450000	74	P	
55	**Mn**	2	**20.930**	ug/l	209.30	3.6	15000	45	P	
59	**Co**	2	**0.564**	ug/l	5.64	4.9	4500	45	P	
60	**Ni**	2	**4.299**	ug/l	42.99	16.2	15000	45	P	
63	**Cu**	2	**2.684**	ug/l	26.84	3.8	15000	45	P	
66	**Zn**	2	**3.765**	ug/l	37.65	10.1	15000	45	P	
75	**As**	2	**0.008**	ug/l	0.08	464.1	4500	74	P	
78	**Se**	2	**-0.491**	ug/l	-4.91	54.2	4500	74	P	
88	**Sr**	3	**0.927**	ug/l	9.27	2.2	4500	74	P	
95	**Mo**	3	**0.053**	ug/l	0.53	38.8	4500	74	P	
107	**Ag**	3	**0.000**	ug/l	0.00	1214.5	450	103	P	
111	**Cd**	3	**-0.008**	ug/l	-0.08	79.7	900	103	P	
118	**Sn**	3	**0.004**	ug/l	0.04	46.8	4500	103	P	
121	**Sb**	3	**0.162**	ug/l	1.62	5.9	4500	103	P	
135	**Ba**	3	**13.450**	ug/l	134.50	0.5	4500	103	P	
200	**Hg**	3	**33.210**	ug/l	332.10	1.7	45	209	P	
205	**Tl**	3	**0.085**	ug/l	0.85	6.0	4500	209	P	
208	**Pb**	3	**1.695**	ug/l	16.95	1.5	4500	209	P	
238	**U**	3	**0.010**	ug/l	0.10	43.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4045132	1.60	5119000	**79.0**	30	-	120	
45	Sc	1	175726	0.62	341400	**51.5**	30	-	120	
45	Sc	2	217755	0.43	273900	**79.5**	30	-	120	
74	Ge	1	150753	1.60	283600	**53.2**	30	-	120	
74	Ge	2	360950	1.04	422600	**85.4**	30	-	120	
74	Ge	3	1428943	1.34	1674000	**85.4**	30	-	120	
103	Rh	2	701368	0.65	814900	**86.1**	30	-	120	
103	Rh	3	1344103	0.51	1535000	**87.6**	30	-	120	
165	Ho	3	2901961	0.43	3236000	**89.7**	30	-	120	
175	Lu	3	3252601	1.69	3584000	**90.8**	30	-	120	
209	Bi	3	6905220	0.97	7619000	**90.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\145SMPL.D\145SMPL.D#
Date Acquired: May 28 2010 05:26 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-28-B Vial Number: 4204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.091**	ug/l	10.91	1.6	450	6	P	
23	**Na**	2	**52.770**	ug/l	527.70	5.9	450000	45	P	
24	**Mg**	2	**37010.000**	ug/l	370,100.00	1.3	450000	45	A	
27	**Al**	2	**22420.000**	ug/l	224,200.00	0.6	450000	45	A	
31	**P**	2	**478.600**	ug/l	4,786.00	1.5	450000	45	P	
39	**K**	2	**2478.000**	ug/l	24,780.00	0.9	450000	45	P	
44	**Ca**	2	**2287.000**	ug/l	22,870.00	1.3	450000	45	P	
47	**Ti**	2	**96.820**	ug/l	968.20	6.2	4500	45	P	
51	**V**	2	**93.490**	ug/l	934.90	1.1	4500	45	P	
52	**Cr**	2	**654.900**	ug/l	6,549.00	0.2	4500	45	A	
54	**Fe**	2	**100000.000**	ug/l	1,000,000.00	1.4	450000	74	A	
55	**Mn**	2	**1982.000**	ug/l	19,820.00	0.2	15000	45	A	
59	**Co**	2	**166.300**	ug/l	1,663.00	0.8	4500	45	P	
60	**Ni**	2	**2255.000**	ug/l	22,550.00	1.2	15000	45	A	
63	**Cu**	2	**60.570**	ug/l	605.70	1.3	15000	45	P	
66	**Zn**	2	**118.800**	ug/l	1,188.00	2.0	15000	45	P	
75	**As**	2	**17.740**	ug/l	177.40	2.3	4500	74	P	
78	**Se**	2	**1.283**	ug/l	12.83	99.7	4500	74	P	
88	**Sr**	3	**27.230**	ug/l	272.30	0.5	4500	74	P	
95	**Mo**	3	**1.052**	ug/l	10.52	1.9	4500	74	P	
107	**Ag**	3	**0.123**	ug/l	1.23	3.5	450	103	P	
111	**Cd**	3	**0.309**	ug/l	3.09	15.4	900	103	P	
118	**Sn**	3	**0.989**	ug/l	9.89	5.6	4500	103	P	
121	**Sb**	3	**0.693**	ug/l	6.93	2.6	4500	103	P	
135	**Ba**	3	**432.100**	ug/l	4,321.00	1.3	4500	103	P	
200	**Hg**	3	**740.300**	ug/l	7,403.00	1.9	45	209	A	Fail
205	**Tl**	3	**0.221**	ug/l	2.21	5.7	4500	209	P	
208	**Pb**	3	**59.000**	ug/l	590.00	1.1	4500	209	P	
238	**U**	3	**0.412**	ug/l	4.12	2.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3359509	0.93	5119000	**65.6**	30	-	120	
45	Sc	1	175768	1.14	341400	**51.5**	30	-	120	
45	Sc	2	233193	0.42	273900	**85.1**	30	-	120	
74	Ge	1	133144	0.99	283600	**46.9**	30	-	120	
74	Ge	2	345791	1.39	422600	**81.8**	30	-	120	
74	Ge	3	1420507	0.64	1674000	**84.9**	30	-	120	
103	Rh	2	658467	0.94	814900	**80.8**	30	-	120	
103	Rh	3	1285861	1.32	1535000	**83.8**	30	-	120	
165	Ho	3	2956923	1.18	3236000	**91.4**	30	-	120	
175	Lu	3	3316005	1.87	3584000	**92.5**	30	-	120	
209	Bi	3	6648849	0.63	7619000	**87.3**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\146SMPL.D\146SMPL.D#
Date Acquired: May 28 2010 05:33 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-29-B Vial Number: 4205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.684**	ug/l	6.84	5.5	450	6	P	
23	**Na**	2	**173.400**	ug/l	1,734.00	1.6	450000	45	P	
24	**Mg**	2	**29170.000**	ug/l	291,700.00	2.3	450000	45	A	
27	**Al**	2	**20940.000**	ug/l	209,400.00	1.4	450000	45	A	
31	**P**	2	**420.100**	ug/l	4,201.00	5.6	450000	45	P	
39	**K**	2	**1982.000**	ug/l	19,820.00	1.3	450000	45	P	
44	**Ca**	2	**1415.000**	ug/l	14,150.00	1.1	450000	45	P	
47	**Ti**	2	**163.900**	ug/l	1,639.00	0.9	4500	45	P	
51	**V**	2	**75.510**	ug/l	755.10	0.9	4500	45	P	
52	**Cr**	2	**829.300**	ug/l	8,293.00	0.9	4500	45	A	
54	**Fe**	2	**114900.000**	ug/l	1,149,000.00	1.7	450000	74	A	
55	**Mn**	2	**1801.000**	ug/l	18,010.00	1.5	15000	45	A	
59	**Co**	2	**227.300**	ug/l	2,273.00	1.2	4500	45	P	
60	**Ni**	2	**3506.000**	ug/l	35,060.00	1.7	15000	45	A	
63	**Cu**	2	**28.410**	ug/l	284.10	2.0	15000	45	P	
66	**Zn**	2	**82.400**	ug/l	824.00	1.1	15000	45	P	
75	**As**	2	**9.582**	ug/l	95.82	2.5	4500	74	P	
78	**Se**	2	**1.038**	ug/l	10.38	109.4	4500	74	P	
88	**Sr**	3	**25.310**	ug/l	253.10	2.2	4500	74	P	
95	**Mo**	3	**0.393**	ug/l	3.93	4.9	4500	74	P	
107	**Ag**	3	**0.063**	ug/l	0.63	5.1	450	103	P	
111	**Cd**	3	**0.172**	ug/l	1.72	15.5	900	103	P	
118	**Sn**	3	**0.725**	ug/l	7.25	6.3	4500	103	P	
121	**Sb**	3	**0.462**	ug/l	4.62	6.9	4500	103	P	
135	**Ba**	3	**218.800**	ug/l	2,188.00	1.3	4500	103	P	
200	**Hg**	3	**331.200**	ug/l	3,312.00	1.7	45	209	P	Fail
205	**Tl**	3	**0.366**	ug/l	3.66	2.3	4500	209	P	
208	**Pb**	3	**8.830**	ug/l	88.30	1.4	4500	209	P	
238	**U**	3	**0.316**	ug/l	3.16	3.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3311150	2.13	5119000	**64.7**	30	-	120	
45	Sc	1	161409	1.07	341400	**47.3**	30	-	120	
45	Sc	2	226961	1.31	273900	**82.9**	30	-	120	
74	Ge	1	123144	0.33	283600	**43.4**	30	-	120	
74	Ge	2	336605	0.78	422600	**79.7**	30	-	120	
74	Ge	3	1374625	1.45	1674000	**82.1**	30	-	120	
103	Rh	2	642330	1.82	814900	**78.8**	30	-	120	
103	Rh	3	1258387	1.71	1535000	**82.0**	30	-	120	
165	Ho	3	2881165	1.32	3236000	**89.0**	30	-	120	
175	Lu	3	3224721	0.76	3584000	**90.0**	30	-	120	
209	Bi	3	6563939	0.88	7619000	**86.2**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\147SMPL.D\147SMPL.D#
Date Acquired: May 28 2010 05:41 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-30-B Vial Number: 4206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.248**	ug/l	12.48	3.9	450	6	P	
23	**Na**	2	**106.600**	ug/l	1,066.00	3.1	450000	45	P	
24	**Mg**	2	**25090.000**	ug/l	250,900.00	1.6	450000	45	A	
27	**Al**	2	**31840.000**	ug/l	318,400.00	0.8	450000	45	A	
31	**P**	2	**912.600**	ug/l	9,126.00	2.0	450000	45	P	
39	**K**	2	**3435.000**	ug/l	34,350.00	1.5	450000	45	A	
44	**Ca**	2	**4413.000**	ug/l	44,130.00	1.5	450000	45	P	
47	**Ti**	2	**101.500**	ug/l	1,015.00	6.7	4500	45	P	
51	**V**	2	**105.900**	ug/l	1,059.00	1.4	4500	45	P	
52	**Cr**	2	**236.000**	ug/l	2,360.00	0.6	4500	45	P	
54	**Fe**	2	**81200.000**	ug/l	812,000.00	0.8	450000	74	A	
55	**Mn**	2	**1202.000**	ug/l	12,020.00	0.7	15000	45	A	
59	**Co**	2	**53.920**	ug/l	539.20	0.5	4500	45	P	
60	**Ni**	2	**602.800**	ug/l	6,028.00	1.5	15000	45	P	
63	**Cu**	2	**83.950**	ug/l	839.50	0.4	15000	45	P	
66	**Zn**	2	**197.700**	ug/l	1,977.00	1.0	15000	45	P	
75	**As**	2	**26.560**	ug/l	265.60	0.8	4500	74	P	
78	**Se**	2	**1.115**	ug/l	11.15	104.7	4500	74	P	
88	**Sr**	3	**43.650**	ug/l	436.50	0.8	4500	74	P	
95	**Mo**	3	**1.497**	ug/l	14.97	7.4	4500	74	P	
107	**Ag**	3	**0.169**	ug/l	1.69	6.5	450	103	P	
111	**Cd**	3	**0.402**	ug/l	4.02	4.0	900	103	P	
118	**Sn**	3	**1.417**	ug/l	14.17	5.0	4500	103	P	
121	**Sb**	3	**0.835**	ug/l	8.35	1.8	4500	103	P	
135	**Ba**	3	**368.100**	ug/l	3,681.00	2.1	4500	103	P	
200	**Hg**	3	**26.520**	ug/l	265.20	2.0	45	209	P	
205	**Tl**	3	**0.242**	ug/l	2.42	4.4	4500	209	P	
208	**Pb**	3	**38.590**	ug/l	385.90	1.4	4500	209	P	
238	**U**	3	**0.345**	ug/l	3.45	4.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3443393	0.93	5119000	**67.3**	30	-	120	
45	Sc	1	159465	0.63	341400	**46.7**	30	-	120	
45	Sc	2	229363	0.47	273900	**83.7**	30	-	120	
74	Ge	1	123675	1.29	283600	**43.6**	30	-	120	
74	Ge	2	340474	0.17	422600	**80.6**	30	-	120	
74	Ge	3	1447647	1.33	1674000	**86.5**	30	-	120	
103	Rh	2	654948	0.36	814900	**80.4**	30	-	120	
103	Rh	3	1319994	2.48	1535000	**86.0**	30	-	120	
165	Ho	3	2992013	0.70	3236000	**92.5**	30	-	120	
175	Lu	3	3315686	0.29	3584000	**92.5**	30	-	120	
209	Bi	3	6707693	1.46	7619000	**88.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\148SMPL.D\148SMPL.D#
Date Acquired: May 28 2010 05:48 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**51.600**	ug/l	51.60	0.5	450	6	P	
23	**Na**	2	**5077.000**	ug/l	5,077.00	0.7	450000	45	A	
24	**Mg**	2	**5121.000**	ug/l	5,121.00	1.7	450000	45	A	
27	**Al**	2	**505.200**	ug/l	505.20	1.5	450000	45	P	
31	**P**	2	**4848.000**	ug/l	4,848.00	0.8	450000	45	P	
39	**K**	2	**5199.000**	ug/l	5,199.00	1.6	450000	45	A	
44	**Ca**	2	**5154.000**	ug/l	5,154.00	2.4	450000	45	P	
47	**Ti**	2	**52.250**	ug/l	52.25	1.5	4500	45	P	
51	**V**	2	**53.050**	ug/l	53.05	1.9	4500	45	P	
52	**Cr**	2	**53.440**	ug/l	53.44	2.4	4500	45	P	
54	**Fe**	2	**5156.000**	ug/l	5,156.00	0.9	450000	74	P	
55	**Mn**	2	**54.350**	ug/l	54.35	1.5	15000	45	P	
59	**Co**	2	**53.990**	ug/l	53.99	1.1	4500	45	P	
60	**Ni**	2	**54.160**	ug/l	54.16	1.0	15000	45	P	
63	**Cu**	2	**54.140**	ug/l	54.14	1.1	15000	45	P	
66	**Zn**	2	**54.620**	ug/l	54.62	2.5	15000	45	P	
75	**As**	2	**51.290**	ug/l	51.29	1.1	4500	74	P	
78	**Se**	2	**57.380**	ug/l	57.38	3.3	4500	74	P	
88	**Sr**	3	**53.940**	ug/l	53.94	0.7	4500	74	P	
95	**Mo**	3	**53.410**	ug/l	53.41	1.9	4500	74	P	
107	**Ag**	3	**52.390**	ug/l	52.39	1.2	450	103	P	
111	**Cd**	3	**52.020**	ug/l	52.02	0.9	900	103	P	
118	**Sn**	3	**52.630**	ug/l	52.63	0.8	4500	103	P	
121	**Sb**	3	**52.930**	ug/l	52.93	1.7	4500	103	P	
135	**Ba**	3	**54.140**	ug/l	54.14	2.2	4500	103	P	
200	**Hg**	3	**16.850**	ug/l	16.85	3.1	45	209	P	
205	**Tl**	3	**51.610**	ug/l	51.61	1.3	4500	209	P	
208	**Pb**	3	**52.820**	ug/l	52.82	0.5	4500	209	P	
238	**U**	3	**52.270**	ug/l	52.27	0.4	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3719096	0.87	5119000	**72.7**	30	-	120	
45	Sc	1	160483	2.50	341400	**47.0**	30	-	120	
45	Sc	2	210976	1.57	273900	**77.0**	30	-	120	
74	Ge	1	136692	1.49	283600	**48.2**	30	-	120	
74	Ge	2	346554	1.09	422600	**82.0**	30	-	120	
74	Ge	3	1412082	0.38	1674000	**84.4**	30	-	120	
103	Rh	2	668951	1.20	814900	**82.1**	30	-	120	
103	Rh	3	1306337	1.06	1535000	**85.1**	30	-	120	
165	Ho	3	2903618	0.64	3236000	**89.7**	30	-	120	
175	Lu	3	3238059	0.55	3584000	**90.3**	30	-	120	
209	Bi	3	6810454	0.59	7619000	**89.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\149SMPL.D\149SMPL.D#
Date Acquired: May 28 2010 05:55 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.020**	ug/l	0.02	33.8	450	6	P	
23	**Na**	2	**3.691**	ug/l	3.69	37.1	450000	45	P	
24	**Mg**	2	**4.288**	ug/l	4.29	3.8	450000	45	P	
27	**Al**	2	**2.019**	ug/l	2.02	8.1	450000	45	P	
31	**P**	2	**-5.146**	ug/l	-5.15	54.5	450000	45	P	
39	**K**	2	**1.772**	ug/l	1.77	267.9	450000	45	P	
44	**Ca**	2	**2.875**	ug/l	2.88	22.6	450000	45	P	
47	**Ti**	2	**0.051**	ug/l	0.05	41.1	4500	45	P	
51	**V**	2	**-0.109**	ug/l	-0.11	33.6	4500	45	P	
52	**Cr**	2	**0.032**	ug/l	0.03	47.0	4500	45	P	
54	**Fe**	2	**5.127**	ug/l	5.13	24.9	450000	74	P	
55	**Mn**	2	**0.212**	ug/l	0.21	8.3	15000	45	P	
59	**Co**	2	**0.026**	ug/l	0.03	28.3	4500	45	P	
60	**Ni**	2	**0.108**	ug/l	0.11	11.5	15000	45	P	
63	**Cu**	2	**0.016**	ug/l	0.02	83.2	15000	45	P	
66	**Zn**	2	**0.119**	ug/l	0.12	81.3	15000	45	P	
75	**As**	2	**-0.036**	ug/l	-0.04	64.6	4500	74	P	
78	**Se**	2	**-0.219**	ug/l	-0.22	123.1	4500	74	P	
88	**Sr**	3	**0.015**	ug/l	0.02	2.7	4500	74	P	
95	**Mo**	3	**0.003**	ug/l	0.00	551.1	4500	74	P	
107	**Ag**	3	**0.013**	ug/l	0.01	37.9	450	103	P	
111	**Cd**	3	**0.017**	ug/l	0.02	102.5	900	103	P	
118	**Sn**	3	**0.043**	ug/l	0.04	42.6	4500	103	P	
121	**Sb**	3	**0.032**	ug/l	0.03	20.2	4500	103	P	
135	**Ba**	3	**0.043**	ug/l	0.04	59.6	4500	103	P	
200	**Hg**	3	**13.700**	ug/l	13.70	0.9	45	209	P	
205	**Tl**	3	**0.396**	ug/l	0.40	10.1	4500	209	P	
208	**Pb**	3	**0.020**	ug/l	0.02	6.7	4500	209	P	
238	**U**	3	**0.012**	ug/l	0.01	23.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3572141	0.95	5119000	**69.8**	30	-	120	
45	Sc	1	157006	2.50	341400	**46.0**	30	-	120	
45	Sc	2	214638	0.66	273900	**78.4**	30	-	120	
74	Ge	1	136408	1.71	283600	**48.1**	30	-	120	
74	Ge	2	356956	0.76	422600	**84.5**	30	-	120	
74	Ge	3	1401227	1.64	1674000	**83.7**	30	-	120	
103	Rh	2	708473	1.00	814900	**86.9**	30	-	120	
103	Rh	3	1332196	1.86	1535000	**86.8**	30	-	120	
165	Ho	3	2925891	0.98	3236000	**90.4**	30	-	120	
175	Lu	3	3272953	1.14	3584000	**91.3**	30	-	120	
209	Bi	3	7052375	0.57	7619000	**92.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\150SMPL.D\150SMPL.D#
Date Acquired: May 28 2010 06:02 am Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64541/21-A Vial Number: 4301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.004**	ug/l	0.04	40.8	450	6	P	
23	**Na**	2	**4.130**	ug/l	41.30	28.3	450000	45	P	
24	**Mg**	2	**1.443**	ug/l	14.43	7.4	450000	45	P	
27	**Al**	2	**0.690**	ug/l	6.90	30.7	450000	45	P	
31	**P**	2	**-8.309**	ug/l	-83.09	11.7	450000	45	P	
39	**K**	2	**0.623**	ug/l	6.23	790.0	450000	45	P	
44	**Ca**	2	**2.009**	ug/l	20.09	77.3	450000	45	P	
47	**Ti**	2	**0.024**	ug/l	0.24	100.8	4500	45	P	
51	**V**	2	**-0.101**	ug/l	-1.01	61.2	4500	45	P	
52	**Cr**	2	**0.010**	ug/l	0.10	424.2	4500	45	P	
54	**Fe**	2	**1.235**	ug/l	12.35	13.0	450000	74	P	
55	**Mn**	2	**0.128**	ug/l	1.28	8.8	15000	45	P	
59	**Co**	2	**0.012**	ug/l	0.12	19.0	4500	45	P	
60	**Ni**	2	**0.095**	ug/l	0.95	25.1	15000	45	P	
63	**Cu**	2	**0.017**	ug/l	0.17	65.3	15000	45	P	
66	**Zn**	2	**0.109**	ug/l	1.09	10.2	15000	45	P	
75	**As**	2	**-0.080**	ug/l	-0.80	16.0	4500	74	P	
78	**Se**	2	**-0.129**	ug/l	-1.29	240.2	4500	74	P	
88	**Sr**	3	**0.004**	ug/l	0.04	74.2	4500	74	P	
95	**Mo**	3	**-0.004**	ug/l	-0.04	148.3	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.03	186.6	450	103	P	
111	**Cd**	3	**0.001**	ug/l	0.01	1989.4	900	103	P	
118	**Sn**	3	**0.008**	ug/l	0.08	91.1	4500	103	P	
121	**Sb**	3	**0.005**	ug/l	0.05	49.5	4500	103	P	
135	**Ba**	3	**0.019**	ug/l	0.19	128.7	4500	103	P	
200	**Hg**	3	**12.750**	ug/l	127.50	0.8	45	209	P	
205	**Tl**	3	**0.158**	ug/l	1.58	3.3	4500	209	P	
208	**Pb**	3	**0.007**	ug/l	0.07	42.3	4500	209	P	
238	**U**	3	**0.000**	ug/l	0.00	210.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3579220	1.07	5119000	**69.9**	30	-	120	
45	Sc	1	156519	1.06	341400	**45.8**	30	-	120	
45	Sc	2	212917	0.47	273900	**77.7**	30	-	120	
74	Ge	1	133590	1.28	283600	**47.1**	30	-	120	
74	Ge	2	356321	0.61	422600	**84.3**	30	-	120	
74	Ge	3	1426168	0.30	1674000	**85.2**	30	-	120	
103	Rh	2	703414	1.47	814900	**86.3**	30	-	120	
103	Rh	3	1336107	0.41	1535000	**87.0**	30	-	120	
165	Ho	3	2933479	0.49	3236000	**90.7**	30	-	120	
175	Lu	3	3267878	1.37	3584000	**91.2**	30	-	120	
209	Bi	3	7070035	0.72	7619000	**92.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\151SMPL.D\151SMPL.D#
Date Acquired: May 28 2010 06:09 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-B SD Vial Number: 4302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.139**	ug/l	6.97	1.8	450	6	P	
23	**Na**	2	**34.440**	ug/l	1,722.00	9.7	450000	45	P	
24	**Mg**	2	**8171.000**	ug/l	408,550.00	1.1	450000	45	A	
27	**Al**	2	**4949.000**	ug/l	247,450.00	1.2	450000	45	A	
31	**P**	2	**101.300**	ug/l	5,065.00	11.9	450000	45	P	
39	**K**	2	**381.800**	ug/l	19,090.00	2.1	450000	45	P	
44	**Ca**	2	**245.900**	ug/l	12,295.00	1.6	450000	45	P	
47	**Ti**	2	**37.330**	ug/l	1,866.50	8.3	4500	45	P	
51	**V**	2	**15.610**	ug/l	780.50	2.3	4500	45	P	
52	**Cr**	2	**194.600**	ug/l	9,730.00	1.2	4500	45	P	
54	**Fe**	2	**29660.000**	ug/l	1,483,000.00	1.0	450000	74	A	
55	**Mn**	2	**434.500**	ug/l	21,725.00	0.6	15000	45	P	
59	**Co**	2	**56.670**	ug/l	2,833.50	0.8	4500	45	P	
60	**Ni**	2	**1017.000**	ug/l	50,850.00	0.8	15000	45	P	
63	**Cu**	2	**5.726**	ug/l	286.30	4.0	15000	45	P	
66	**Zn**	2	**20.520**	ug/l	1,026.00	1.8	15000	45	P	
75	**As**	2	**2.273**	ug/l	113.65	4.0	4500	74	P	
78	**Se**	2	**-0.315**	ug/l	-15.73	47.6	4500	74	P	
88	**Sr**	3	**5.532**	ug/l	276.60	1.0	4500	74	P	
95	**Mo**	3	**0.122**	ug/l	6.09	29.5	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.38	16.6	450	103	P	
111	**Cd**	3	**0.046**	ug/l	2.29	27.2	900	103	P	
118	**Sn**	3	**0.155**	ug/l	7.73	8.4	4500	103	P	
121	**Sb**	3	**0.297**	ug/l	14.85	2.9	4500	103	P	
135	**Ba**	3	**47.370**	ug/l	2,368.50	2.0	4500	103	P	
200	**Hg**	3	**221.100**	ug/l	11,055.00	0.4	45	209	P	Fail
205	**Tl**	3	**0.196**	ug/l	9.82	3.0	4500	209	P	
208	**Pb**	3	**1.926**	ug/l	96.30	1.2	4500	209	P	
238	**U**	3	**0.073**	ug/l	3.63	5.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3799616	0.73	5119000	**74.2**	30	-	120	
45	Sc	1	165698	0.52	341400	**48.5**	30	-	120	
45	Sc	2	227463	0.24	273900	**83.0**	30	-	120	
74	Ge	1	138763	0.53	283600	**48.9**	30	-	120	
74	Ge	2	360197	1.07	422600	**85.2**	30	-	120	
74	Ge	3	1451368	1.20	1674000	**86.7**	30	-	120	
103	Rh	2	690303	1.36	814900	**84.7**	30	-	120	
103	Rh	3	1341058	0.23	1535000	**87.4**	30	-	120	
165	Ho	3	2968616	0.78	3236000	**91.7**	30	-	120	
175	Lu	3	3311244	1.49	3584000	**92.4**	30	-	120	
209	Bi	3	6887601	0.38	7619000	**90.4**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\152SMPL.D\152SMPL.D#
Date Acquired: May 28 2010 06:17 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-B Vial Number: 4303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.697**	ug/l	6.97	1.6	450	6	P	
23	**Na**	2	**171.100**	ug/l	1,711.00	3.0	450000	45	P	
24	**Mg**	2	**35180.000**	ug/l	351,800.00	0.6	450000	45	A	
27	**Al**	2	**21040.000**	ug/l	210,400.00	0.7	450000	45	A	
31	**P**	2	**453.100**	ug/l	4,531.00	3.0	450000	45	P	
39	**K**	2	**1740.000**	ug/l	17,400.00	0.9	450000	45	P	
44	**Ca**	2	**1128.000**	ug/l	11,280.00	2.7	450000	45	P	
47	**Ti**	2	**162.700**	ug/l	1,627.00	3.5	4500	45	P	
51	**V**	2	**70.800**	ug/l	708.00	1.8	4500	45	P	
52	**Cr**	2	**832.100**	ug/l	8,321.00	1.8	4500	45	A	
54	**Fe**	2	**137500.000**	ug/l	1,375,000.00	1.3	450000	74	A	
55	**Mn**	2	**1818.000**	ug/l	18,180.00	1.1	15000	45	A	
59	**Co**	2	**246.500**	ug/l	2,465.00	1.7	4500	45	P	
60	**Ni**	2	**4228.000**	ug/l	42,280.00	1.2	15000	45	A	
63	**Cu**	2	**24.950**	ug/l	249.50	2.6	15000	45	P	
66	**Zn**	2	**88.750**	ug/l	887.50	2.4	15000	45	P	
75	**As**	2	**11.150**	ug/l	111.50	3.8	4500	74	P	
78	**Se**	2	**0.871**	ug/l	8.71	82.5	4500	74	P	
88	**Sr**	3	**26.940**	ug/l	269.40	1.4	4500	74	P	
95	**Mo**	3	**0.576**	ug/l	5.76	16.9	4500	74	P	
107	**Ag**	3	**0.061**	ug/l	0.61	5.4	450	103	P	
111	**Cd**	3	**0.202**	ug/l	2.02	10.3	900	103	P	
118	**Sn**	3	**0.739**	ug/l	7.39	4.5	4500	103	P	
121	**Sb**	3	**1.460**	ug/l	14.60	3.9	4500	103	P	
135	**Ba**	3	**233.700**	ug/l	2,337.00	3.5	4500	103	P	
200	**Hg**	3	**980.100**	ug/l	9,801.00	1.2	45	209	A	Fail
205	**Tl**	3	**0.520**	ug/l	5.20	0.8	4500	209	P	
208	**Pb**	3	**9.360**	ug/l	93.60	0.9	4500	209	P	
238	**U**	3	**0.381**	ug/l	3.81	2.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3347855	2.14	5119000	**65.4**	30	-	120	
45	Sc	1	179366	0.78	341400	**52.5**	30	-	120	
45	Sc	2	227519	0.39	273900	**83.1**	30	-	120	
74	Ge	1	135578	0.40	283600	**47.8**	30	-	120	
74	Ge	2	332695	0.76	422600	**78.7**	30	-	120	
74	Ge	3	1338524	1.76	1674000	**80.0**	30	-	120	
103	Rh	2	636319	1.46	814900	**78.1**	30	-	120	
103	Rh	3	1228390	2.97	1535000	**80.0**	30	-	120	
165	Ho	3	2837231	0.13	3236000	**87.7**	30	-	120	
175	Lu	3	3154227	0.51	3584000	**88.0**	30	-	120	
209	Bi	3	6397393	1.13	7619000	**84.0**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\153SMPL.D\153SMPL.D#
Date Acquired: May 28 2010 06:24 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-C DU Vial Number: 4304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.691**	ug/l	6.91	1.5	450	6	P	
23	**Na**	2	**173.300**	ug/l	1,733.00	2.9	450000	45	P	
24	**Mg**	2	**35410.000**	ug/l	354,100.00	0.4	450000	45	A	
27	**Al**	2	**20920.000**	ug/l	209,200.00	0.7	450000	45	A	
31	**P**	2	**461.100**	ug/l	4,611.00	5.0	450000	45	P	
39	**K**	2	**1731.000**	ug/l	17,310.00	0.6	450000	45	P	
44	**Ca**	2	**1134.000**	ug/l	11,340.00	2.3	450000	45	P	
47	**Ti**	2	**161.900**	ug/l	1,619.00	1.3	4500	45	P	
51	**V**	2	**70.310**	ug/l	703.10	1.1	4500	45	P	
52	**Cr**	2	**831.800**	ug/l	8,318.00	1.6	4500	45	A	
54	**Fe**	2	**137700.000**	ug/l	1,377,000.00	2.2	450000	74	A	
55	**Mn**	2	**1808.000**	ug/l	18,080.00	0.8	15000	45	A	
59	**Co**	2	**243.400**	ug/l	2,434.00	1.2	4500	45	P	
60	**Ni**	2	**4162.000**	ug/l	41,620.00	0.1	15000	45	A	
63	**Cu**	2	**24.540**	ug/l	245.40	1.3	15000	45	P	
66	**Zn**	2	**88.950**	ug/l	889.50	2.5	15000	45	P	
75	**As**	2	**11.050**	ug/l	110.50	2.1	4500	74	P	
78	**Se**	2	**1.945**	ug/l	19.45	16.8	4500	74	P	
88	**Sr**	3	**27.030**	ug/l	270.30	0.5	4500	74	P	
95	**Mo**	3	**0.590**	ug/l	5.90	3.5	4500	74	P	
107	**Ag**	3	**0.065**	ug/l	0.65	9.2	450	103	P	
111	**Cd**	3	**0.177**	ug/l	1.77	5.0	900	103	P	
118	**Sn**	3	**0.716**	ug/l	7.16	8.0	4500	103	P	
121	**Sb**	3	**1.473**	ug/l	14.73	1.4	4500	103	P	
135	**Ba**	3	**231.700**	ug/l	2,317.00	1.0	4500	103	P	
200	**Hg**	3	**975.700**	ug/l	9,757.00	1.5	45	209	A	Fail
205	**Tl**	3	**0.525**	ug/l	5.25	3.4	4500	209	P	
208	**Pb**	3	**9.327**	ug/l	93.27	0.8	4500	209	P	
238	**U**	3	**0.362**	ug/l	3.62	2.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3343655	0.49	5119000	**65.3**	30	-	120	
45	Sc	1	174355	2.70	341400	**51.1**	30	-	120	
45	Sc	2	218934	0.28	273900	**79.9**	30	-	120	
74	Ge	1	130422	1.81	283600	**46.0**	30	-	120	
74	Ge	2	318952	1.91	422600	**75.5**	30	-	120	
74	Ge	3	1295007	0.56	1674000	**77.4**	30	-	120	
103	Rh	2	606982	1.41	814900	**74.5**	30	-	120	
103	Rh	3	1190878	0.86	1535000	**77.6**	30	-	120	
165	Ho	3	2774275	0.82	3236000	**85.7**	30	-	120	
175	Lu	3	3082608	0.33	3584000	**86.0**	30	-	120	
209	Bi	3	6268583	0.87	7619000	**82.3**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\154SMPL.D\154SMPL.D#
Date Acquired: May 28 2010 06:31 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-D MS Vial Number: 4305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.997**	ug/l	99.85	2.9	450	6	P	
23	**Na**	2	**438.500**	ug/l	21,925.00	1.2	450000	45	P	
24	**Mg**	2	**7457.000**	ug/l	372,850.00	1.4	450000	45	A	
27	**Al**	2	**4418.000**	ug/l	220,900.00	0.9	450000	45	P	
31	**P**	2	**457.200**	ug/l	22,860.00	1.5	450000	45	P	
39	**K**	2	**732.900**	ug/l	36,645.00	0.7	450000	45	P	
44	**Ca**	2	**601.800**	ug/l	30,090.00	3.8	450000	45	P	
47	**Ti**	2	**124.200**	ug/l	6,210.00	1.7	4500	45	P	
51	**V**	2	**32.190**	ug/l	1,609.50	3.5	4500	45	P	
52	**Cr**	2	**171.100**	ug/l	8,555.00	0.6	4500	45	P	
54	**Fe**	2	**25650.000**	ug/l	1,282,500.00	1.8	450000	74	A	
55	**Mn**	2	**385.700**	ug/l	19,285.00	0.6	15000	45	P	
59	**Co**	2	**67.370**	ug/l	3,368.50	0.5	4500	45	P	
60	**Ni**	2	**875.800**	ug/l	43,790.00	0.8	15000	45	P	
63	**Cu**	2	**15.020**	ug/l	751.00	2.8	15000	45	P	
66	**Zn**	2	**37.850**	ug/l	1,892.50	2.7	15000	45	P	
75	**As**	2	**76.620**	ug/l	3,831.00	1.8	4500	74	P	
78	**Se**	2	**79.110**	ug/l	3,955.50	2.9	4500	74	P	
88	**Sr**	3	**4.635**	ug/l	231.75	0.9	4500	74	P	
95	**Mo**	3	**99.320**	ug/l	4,966.00	0.3	4500	74	P	
107	**Ag**	3	**11.870**	ug/l	593.50	2.5	450	103	P	
111	**Cd**	3	**1.998**	ug/l	99.90	10.7	900	103	P	
118	**Sn**	3	**100.800**	ug/l	5,040.00	2.2	4500	103	P	
121	**Sb**	3	**52.250**	ug/l	2,612.50	3.1	4500	103	P	
135	**Ba**	3	**120.500**	ug/l	6,025.00	3.1	4500	103	P	
200	**Hg**	3	**189.900**	ug/l	9,495.00	0.6	45	209	P	Fail
205	**Tl**	3	**78.470**	ug/l	3,923.50	1.0	4500	209	A	
208	**Pb**	3	**21.580**	ug/l	1,079.00	0.4	4500	209	P	
238	**U**	3	**0.061**	ug/l	3.06	8.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3824031	0.66	5119000	**74.7**	30	-	120	
45	Sc	1	165166	1.54	341400	**48.4**	30	-	120	
45	Sc	2	205344	1.01	273900	**75.0**	30	-	120	
74	Ge	1	137148	2.47	283600	**48.4**	30	-	120	
74	Ge	2	326645	1.42	422600	**77.3**	30	-	120	
74	Ge	3	1341954	0.25	1674000	**80.2**	30	-	120	
103	Rh	2	630328	1.23	814900	**77.4**	30	-	120	
103	Rh	3	1237350	2.54	1535000	**80.6**	30	-	120	
165	Ho	3	2786016	0.49	3236000	**86.1**	30	-	120	
175	Lu	3	3109811	0.50	3584000	**86.8**	30	-	120	
209	Bi	3	6526193	0.64	7619000	**85.7**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\155SMPL.D\155SMPL.D#
Date Acquired: May 28 2010 06:38 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-E MSD Vial Number: 4306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.095**	ug/l	104.75	4.7	450	6	P	
23	**Na**	2	**437.800**	ug/l	21,890.00	1.8	450000	45	P	
24	**Mg**	2	**7542.000**	ug/l	377,100.00	2.7	450000	45	A	
27	**Al**	2	**4484.000**	ug/l	224,200.00	1.5	450000	45	P	
31	**P**	2	**456.600**	ug/l	22,830.00	2.6	450000	45	P	
39	**K**	2	**744.500**	ug/l	37,225.00	2.5	450000	45	P	
44	**Ca**	2	**613.200**	ug/l	30,660.00	1.4	450000	45	P	
47	**Ti**	2	**127.100**	ug/l	6,355.00	1.3	4500	45	P	
51	**V**	2	**33.330**	ug/l	1,666.50	1.3	4500	45	P	
52	**Cr**	2	**176.000**	ug/l	8,800.00	2.7	4500	45	P	
54	**Fe**	2	**26250.000**	ug/l	1,312,500.00	1.5	450000	74	A	
55	**Mn**	2	**394.400**	ug/l	19,720.00	1.9	15000	45	P	
59	**Co**	2	**68.690**	ug/l	3,434.50	1.4	4500	45	P	
60	**Ni**	2	**897.700**	ug/l	44,885.00	0.8	15000	45	P	
63	**Cu**	2	**15.350**	ug/l	767.50	1.6	15000	45	P	
66	**Zn**	2	**38.590**	ug/l	1,929.50	3.2	15000	45	P	
75	**As**	2	**80.630**	ug/l	4,031.50	1.7	4500	74	P	
78	**Se**	2	**82.950**	ug/l	4,147.50	3.0	4500	74	P	
88	**Sr**	3	**4.796**	ug/l	239.80	2.2	4500	74	P	
95	**Mo**	3	**102.300**	ug/l	5,115.00	1.2	4500	74	P	
107	**Ag**	3	**12.230**	ug/l	611.50	0.5	450	103	P	
111	**Cd**	3	**2.102**	ug/l	105.10	2.9	900	103	P	
118	**Sn**	3	**104.400**	ug/l	5,220.00	2.0	4500	103	P	
121	**Sb**	3	**54.320**	ug/l	2,716.00	1.2	4500	103	P	
135	**Ba**	3	**125.400**	ug/l	6,270.00	1.7	4500	103	P	
200	**Hg**	3	**194.000**	ug/l	9,700.00	0.5	45	209	P	Fail
205	**Tl**	3	**81.630**	ug/l	4,081.50	0.3	4500	209	A	
208	**Pb**	3	**22.560**	ug/l	1,128.00	1.3	4500	209	P	
238	**U**	3	**0.064**	ug/l	3.19	7.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3929294	1.69	5119000	**76.8**	30	-	120	
45	Sc	1	163397	2.10	341400	**47.9**	30	-	120	
45	Sc	2	214768	1.75	273900	**78.4**	30	-	120	
74	Ge	1	136638	1.29	283600	**48.2**	30	-	120	
74	Ge	2	338658	1.32	422600	**80.1**	30	-	120	
74	Ge	3	1387355	1.15	1674000	**82.9**	30	-	120	
103	Rh	2	652729	1.20	814900	**80.1**	30	-	120	
103	Rh	3	1269415	1.00	1535000	**82.7**	30	-	120	
165	Ho	3	2866197	0.33	3236000	**88.6**	30	-	120	
175	Lu	3	3189364	1.75	3584000	**89.0**	30	-	120	
209	Bi	3	6625259	0.34	7619000	**87.0**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\156SMPL.D\156SMPL.D#
Date Acquired: May 28 2010 06:45 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-B PDS Vial Number: 4307
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.113**	ug/l	105.65	0.4	450	6	P	
23	**Na**	2	**441.800**	ug/l	22,090.00	1.2	450000	45	P	
24	**Mg**	2	**7558.000**	ug/l	377,900.00	0.5	450000	45	A	
27	**Al**	2	**4509.000**	ug/l	225,450.00	0.9	450000	45	P	
31	**P**	2	**432.100**	ug/l	21,605.00	3.4	450000	45	P	
39	**K**	2	**753.200**	ug/l	37,660.00	0.7	450000	45	P	
44	**Ca**	2	**630.100**	ug/l	31,505.00	2.6	450000	45	P	
47	**Ti**	2	**131.900**	ug/l	6,595.00	2.0	4500	45	P	
51	**V**	2	**33.770**	ug/l	1,688.50	0.6	4500	45	P	
52	**Cr**	2	**178.600**	ug/l	8,930.00	0.8	4500	45	P	
54	**Fe**	2	**25990.000**	ug/l	1,299,500.00	0.7	450000	74	A	
55	**Mn**	2	**398.500**	ug/l	19,925.00	0.8	15000	45	P	
59	**Co**	2	**69.590**	ug/l	3,479.50	1.2	4500	45	P	
60	**Ni**	2	**908.100**	ug/l	45,405.00	0.9	15000	45	P	
63	**Cu**	2	**15.610**	ug/l	780.50	1.8	15000	45	P	
66	**Zn**	2	**38.930**	ug/l	1,946.50	3.2	15000	45	P	
75	**As**	2	**79.600**	ug/l	3,980.00	1.0	4500	74	P	
78	**Se**	2	**81.750**	ug/l	4,087.50	9.9	4500	74	P	
88	**Sr**	3	**4.733**	ug/l	236.65	0.8	4500	74	P	
95	**Mo**	3	**102.200**	ug/l	5,110.00	1.0	4500	74	P	
107	**Ag**	3	**12.130**	ug/l	606.50	1.3	450	103	P	
111	**Cd**	3	**1.948**	ug/l	97.40	10.1	900	103	P	
118	**Sn**	3	**102.100**	ug/l	5,105.00	2.2	4500	103	P	
121	**Sb**	3	**53.700**	ug/l	2,685.00	1.9	4500	103	P	
135	**Ba**	3	**122.900**	ug/l	6,145.00	1.6	4500	103	P	
200	**Hg**	3	**192.700**	ug/l	9,635.00	0.7	45	209	P	Fail
205	**Tl**	3	**80.540**	ug/l	4,027.00	0.3	4500	209	A	
208	**Pb**	3	**22.310**	ug/l	1,115.50	0.8	4500	209	P	
238	**U**	3	**0.065**	ug/l	3.25	2.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3928418	0.21	5119000	**76.7**	30	-	120	
45	Sc	1	163943	1.00	341400	**48.0**	30	-	120	
45	Sc	2	216092	0.47	273900	**78.9**	30	-	120	
74	Ge	1	136654	0.80	283600	**48.2**	30	-	120	
74	Ge	2	348505	1.35	422600	**82.5**	30	-	120	
74	Ge	3	1431232	0.96	1674000	**85.5**	30	-	120	
103	Rh	2	670343	0.76	814900	**82.3**	30	-	120	
103	Rh	3	1322083	1.72	1535000	**86.1**	30	-	120	
165	Ho	3	2889749	0.55	3236000	**89.3**	30	-	120	
175	Lu	3	3206147	0.13	3584000	**89.5**	30	-	120	
209	Bi	3	6723060	0.59	7619000	**88.2**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\157SMPL.D\157SMPL.D#
Date Acquired: May 28 2010 06:52 am Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64541/22-A Vial Number: 4308
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.082**	ug/l	104.10	1.2	450	6	P	
23	**Na**	2	**427.100**	ug/l	21,355.00	0.4	450000	45	P	
24	**Mg**	2	**422.600**	ug/l	21,130.00	0.6	450000	45	P	
27	**Al**	2	**79.720**	ug/l	3,986.00	3.1	450000	45	P	
31	**P**	2	**365.700**	ug/l	18,285.00	4.5	450000	45	P	
39	**K**	2	**427.100**	ug/l	21,355.00	0.2	450000	45	P	
44	**Ca**	2	**419.200**	ug/l	20,960.00	7.7	450000	45	P	
47	**Ti**	2	**101.200**	ug/l	5,060.00	1.1	4500	45	P	
51	**V**	2	**20.650**	ug/l	1,032.50	1.5	4500	45	P	
52	**Cr**	2	**8.306**	ug/l	415.30	0.5	4500	45	P	
54	**Fe**	2	**451.800**	ug/l	22,590.00	0.6	450000	74	P	
55	**Mn**	2	**21.450**	ug/l	1,072.50	1.3	15000	45	P	
59	**Co**	2	**21.700**	ug/l	1,085.00	0.3	4500	45	P	
60	**Ni**	2	**21.980**	ug/l	1,099.00	1.5	15000	45	P	
63	**Cu**	2	**11.020**	ug/l	551.00	0.4	15000	45	P	
66	**Zn**	2	**21.960**	ug/l	1,098.00	1.2	15000	45	P	
75	**As**	2	**80.160**	ug/l	4,008.00	0.5	4500	74	P	
78	**Se**	2	**82.930**	ug/l	4,146.50	6.4	4500	74	P	
88	**Sr**	3	**0.008**	ug/l	0.39	47.2	4500	74	P	
95	**Mo**	3	**106.700**	ug/l	5,335.00	0.7	4500	74	P	
107	**Ag**	3	**12.580**	ug/l	629.00	0.4	450	103	P	
111	**Cd**	3	**2.012**	ug/l	100.60	7.0	900	103	P	
118	**Sn**	3	**105.700**	ug/l	5,285.00	1.1	4500	103	P	
121	**Sb**	3	**60.610**	ug/l	3,030.50	0.8	4500	103	P	
135	**Ba**	3	**84.190**	ug/l	4,209.50	1.6	4500	103	P	
200	**Hg**	3	**11.450**	ug/l	572.50	1.4	45	209	P	
205	**Tl**	3	**78.440**	ug/l	3,922.00	2.8	4500	209	A	
208	**Pb**	3	**20.750**	ug/l	1,037.50	1.7	4500	209	P	
238	**U**	3	**-0.001**	ug/l	-0.07	21.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3494093	1.96	5119000	**68.3**	30	-	120	
45	Sc	1	151609	1.35	341400	**44.4**	30	-	120	
45	Sc	2	206803	0.82	273900	**75.5**	30	-	120	
74	Ge	1	128824	0.57	283600	**45.4**	30	-	120	
74	Ge	2	343198	1.23	422600	**81.2**	30	-	120	
74	Ge	3	1344372	1.35	1674000	**80.3**	30	-	120	
103	Rh	2	675378	1.07	814900	**82.9**	30	-	120	
103	Rh	3	1281033	1.16	1535000	**83.5**	30	-	120	
165	Ho	3	2877140	1.12	3236000	**88.9**	30	-	120	
175	Lu	3	3201330	1.34	3584000	**89.3**	30	-	120	
209	Bi	3	6890174	1.83	7619000	**90.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\158SMPL.D\158SMPL.D#
Date Acquired: May 28 2010 06:59 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64541/23-A Vial Number: 4309
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.068**	ug/l	103.40	4.7	450	6	P	
23	**Na**	2	**425.400**	ug/l	21,270.00	1.4	450000	45	P	
24	**Mg**	2	**417.900**	ug/l	20,895.00	1.3	450000	45	P	
27	**Al**	2	**77.440**	ug/l	3,872.00	1.9	450000	45	P	
31	**P**	2	**384.100**	ug/l	19,205.00	2.4	450000	45	P	
39	**K**	2	**426.000**	ug/l	21,300.00	1.1	450000	45	P	
44	**Ca**	2	**422.900**	ug/l	21,145.00	3.1	450000	45	P	
47	**Ti**	2	**99.530**	ug/l	4,976.50	0.2	4500	45	P	
51	**V**	2	**21.040**	ug/l	1,052.00	1.6	4500	45	P	
52	**Cr**	2	**8.389**	ug/l	419.45	0.8	4500	45	P	
54	**Fe**	2	**449.800**	ug/l	22,490.00	0.2	450000	74	P	
55	**Mn**	2	**21.390**	ug/l	1,069.50	1.3	15000	45	P	
59	**Co**	2	**21.500**	ug/l	1,075.00	1.1	4500	45	P	
60	**Ni**	2	**21.290**	ug/l	1,064.50	2.2	15000	45	P	
63	**Cu**	2	**11.240**	ug/l	562.00	2.1	15000	45	P	
66	**Zn**	2	**22.610**	ug/l	1,130.50	4.5	15000	45	P	
75	**As**	2	**80.510**	ug/l	4,025.50	1.0	4500	74	P	
78	**Se**	2	**87.140**	ug/l	4,357.00	3.6	4500	74	P	
88	**Sr**	3	**0.009**	ug/l	0.43	12.5	4500	74	P	
95	**Mo**	3	**106.500**	ug/l	5,325.00	0.6	4500	74	P	
107	**Ag**	3	**12.560**	ug/l	628.00	2.7	450	103	P	
111	**Cd**	3	**2.065**	ug/l	103.25	4.8	900	103	P	
118	**Sn**	3	**105.600**	ug/l	5,280.00	2.0	4500	103	P	
121	**Sb**	3	**60.210**	ug/l	3,010.50	2.4	4500	103	P	
135	**Ba**	3	**84.850**	ug/l	4,242.50	1.7	4500	103	P	
200	**Hg**	3	**10.450**	ug/l	522.50	2.7	45	209	P	
205	**Tl**	3	**80.780**	ug/l	4,039.00	0.2	4500	209	A	
208	**Pb**	3	**21.240**	ug/l	1,062.00	0.8	4500	209	P	
238	**U**	3	**-0.002**	ug/l	-0.08	8.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3537906	0.57	5119000	**69.1**	30	-	120	
45	Sc	1	151635	0.38	341400	**44.4**	30	-	120	
45	Sc	2	206662	1.38	273900	**75.5**	30	-	120	
74	Ge	1	128826	0.75	283600	**45.4**	30	-	120	
74	Ge	2	342363	1.17	422600	**81.0**	30	-	120	
74	Ge	3	1361453	1.18	1674000	**81.3**	30	-	120	
103	Rh	2	672777	1.36	814900	**82.6**	30	-	120	
103	Rh	3	1286733	1.31	1535000	**83.8**	30	-	120	
165	Ho	3	2858065	1.70	3236000	**88.3**	30	-	120	
175	Lu	3	3205337	1.15	3584000	**89.4**	30	-	120	
209	Bi	3	6836575	0.51	7619000	**89.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\159SMPL.D\159SMPL.D#
Date Acquired: May 28 2010 07:07 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64541/24-A Vial Number: 4310
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**92.760**	ug/l	1,855.20	1.4	450	6	P	
23	**Na**	2	**319.700**	ug/l	6,394.00	2.3	450000	45	P	
24	**Mg**	2	**2403.000**	ug/l	48,060.00	1.8	450000	45	A	
27	**Al**	2	**5611.000**	ug/l	112,220.00	3.3	450000	45	A	
31	**P**	2	**398.900**	ug/l	7,978.00	5.7	450000	45	P	
39	**K**	2	**2390.000**	ug/l	47,800.00	1.7	450000	45	P	
44	**Ca**	2	**5552.000**	ug/l	111,040.00	1.6	450000	45	P	
47	**Ti**	2	**269.800**	ug/l	5,396.00	0.6	4500	45	P	
51	**V**	2	**56.900**	ug/l	1,138.00	0.5	4500	45	P	
52	**Cr**	2	**73.230**	ug/l	1,464.60	1.8	4500	45	P	
54	**Fe**	2	**10170.000**	ug/l	203,400.00	1.3	450000	74	A	
55	**Mn**	2	**216.000**	ug/l	4,320.00	1.4	15000	45	P	
59	**Co**	2	**71.190**	ug/l	1,423.80	1.2	4500	45	P	
60	**Ni**	2	**106.400**	ug/l	2,128.00	2.2	15000	45	P	
63	**Cu**	2	**40.400**	ug/l	808.00	1.7	15000	45	P	
66	**Zn**	2	**216.700**	ug/l	4,334.00	2.6	15000	45	P	
75	**As**	2	**129.500**	ug/l	2,590.00	0.3	4500	74	P	
78	**Se**	2	**85.230**	ug/l	1,704.60	3.9	4500	74	P	
88	**Sr**	3	**72.820**	ug/l	1,456.40	1.3	4500	74	P	
95	**Mo**	3	**67.280**	ug/l	1,345.60	1.2	4500	74	P	
107	**Ag**	3	**20.920**	ug/l	418.40	1.5	450	103	P	
111	**Cd**	3	**39.400**	ug/l	788.00	0.6	900	103	P	
118	**Sn**	3	**100.200**	ug/l	2,004.00	0.8	4500	103	P	
121	**Sb**	3	**84.370**	ug/l	1,687.40	1.0	4500	103	P	
135	**Ba**	3	**337.300**	ug/l	6,746.00	0.7	4500	103	P	
200	**Hg**	3	**14.440**	ug/l	288.80	1.7	45	209	P	
205	**Tl**	3	**101.100**	ug/l	2,022.00	1.3	4500	209	A	
208	**Pb**	3	**126.400**	ug/l	2,528.00	1.1	4500	209	A	
238	**U**	3	**1.043**	ug/l	20.86	1.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3797768	1.15	5119000	**74.2**	30	-	120	
45	Sc	1	162857	1.25	341400	**47.7**	30	-	120	
45	Sc	2	214206	1.62	273900	**78.2**	30	-	120	
74	Ge	1	139348	1.61	283600	**49.1**	30	-	120	
74	Ge	2	347051	0.76	422600	**82.1**	30	-	120	
74	Ge	3	1428608	2.22	1674000	**85.3**	30	-	120	
103	Rh	2	669380	0.54	814900	**82.1**	30	-	120	
103	Rh	3	1323928	0.64	1535000	**86.2**	30	-	120	
165	Ho	3	2929695	0.66	3236000	**90.5**	30	-	120	
175	Lu	3	3282597	1.45	3584000	**91.6**	30	-	120	
209	Bi	3	6872919	1.22	7619000	**90.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\160SMPL.D\160SMPL.D#
Date Acquired: May 28 2010 07:14 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**51.720**	ug/l	51.72	1.5	450	6	P	
23	**Na**	2	**4959.000**	ug/l	4,959.00	0.6	450000	45	A	
24	**Mg**	2	**5054.000**	ug/l	5,054.00	1.5	450000	45	A	
27	**Al**	2	**487.700**	ug/l	487.70	1.4	450000	45	P	
31	**P**	2	**4769.000**	ug/l	4,769.00	1.8	450000	45	P	
39	**K**	2	**5116.000**	ug/l	5,116.00	1.6	450000	45	A	
44	**Ca**	2	**5070.000**	ug/l	5,070.00	0.7	450000	45	P	
47	**Ti**	2	**52.080**	ug/l	52.08	1.9	4500	45	P	
51	**V**	2	**52.870**	ug/l	52.87	0.9	4500	45	P	
52	**Cr**	2	**52.860**	ug/l	52.86	0.8	4500	45	P	
54	**Fe**	2	**5128.000**	ug/l	5,128.00	1.1	450000	74	P	
55	**Mn**	2	**53.470**	ug/l	53.47	0.8	15000	45	P	
59	**Co**	2	**53.890**	ug/l	53.89	0.9	4500	45	P	
60	**Ni**	2	**53.950**	ug/l	53.95	3.2	15000	45	P	
63	**Cu**	2	**54.430**	ug/l	54.43	0.3	15000	45	P	
66	**Zn**	2	**55.040**	ug/l	55.04	3.1	15000	45	P	
75	**As**	2	**51.410**	ug/l	51.41	1.0	4500	74	P	
78	**Se**	2	**52.040**	ug/l	52.04	2.2	4500	74	P	
88	**Sr**	3	**54.050**	ug/l	54.05	0.7	4500	74	P	
95	**Mo**	3	**53.120**	ug/l	53.12	1.4	4500	74	P	
107	**Ag**	3	**51.570**	ug/l	51.57	1.3	450	103	P	
111	**Cd**	3	**51.790**	ug/l	51.79	0.3	900	103	P	
118	**Sn**	3	**52.210**	ug/l	52.21	0.6	4500	103	P	
121	**Sb**	3	**52.010**	ug/l	52.01	1.5	4500	103	P	
135	**Ba**	3	**52.930**	ug/l	52.93	2.6	4500	103	P	
200	**Hg**	3	**12.390**	ug/l	12.39	0.4	45	209	P	
205	**Tl**	3	**53.410**	ug/l	53.41	1.2	4500	209	P	
208	**Pb**	3	**53.200**	ug/l	53.20	0.6	4500	209	P	
238	**U**	3	**53.070**	ug/l	53.07	1.9	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3819483	1.38	5119000	**74.6**	30	-	120	
45	Sc	1	172546	1.14	341400	**50.5**	30	-	120	
45	Sc	2	220437	1.04	273900	**80.5**	30	-	120	
74	Ge	1	148137	1.21	283600	**52.2**	30	-	120	
74	Ge	2	359944	0.47	422600	**85.2**	30	-	120	
74	Ge	3	1466613	0.68	1674000	**87.6**	30	-	120	
103	Rh	2	693487	1.27	814900	**85.1**	30	-	120	
103	Rh	3	1366993	1.04	1535000	**89.1**	30	-	120	
165	Ho	3	3010715	1.92	3236000	**93.0**	30	-	120	
175	Lu	3	3325168	1.58	3584000	**92.8**	30	-	120	
209	Bi	3	6934116	1.24	7619000	**91.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\161SMPL.D\161SMPL.D#
Date Acquired: May 28 2010 07:21 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.013**	ug/l	0.01	28.9	450	6	P	
23	**Na**	2	**1.929**	ug/l	1.93	57.0	450000	45	P	
24	**Mg**	2	**2.708**	ug/l	2.71	11.1	450000	45	P	
27	**Al**	2	**0.494**	ug/l	0.49	24.3	450000	45	P	
31	**P**	2	**-9.774**	ug/l	-9.77	46.9	450000	45	P	
39	**K**	2	**1.838**	ug/l	1.84	88.8	450000	45	P	
44	**Ca**	2	**1.648**	ug/l	1.65	120.3	450000	45	P	
47	**Ti**	2	**0.040**	ug/l	0.04	26.2	4500	45	P	
51	**V**	2	**-0.122**	ug/l	-0.12	18.9	4500	45	P	
52	**Cr**	2	**-0.011**	ug/l	-0.01	385.7	4500	45	P	
54	**Fe**	2	**1.184**	ug/l	1.18	29.5	450000	74	P	
55	**Mn**	2	**0.082**	ug/l	0.08	18.5	15000	45	P	
59	**Co**	2	**0.027**	ug/l	0.03	10.4	4500	45	P	
60	**Ni**	2	**0.054**	ug/l	0.05	72.6	15000	45	P	
63	**Cu**	2	**0.035**	ug/l	0.03	99.2	15000	45	P	
66	**Zn**	2	**0.134**	ug/l	0.13	57.5	15000	45	P	
75	**As**	2	**-0.026**	ug/l	-0.03	141.3	4500	74	P	
78	**Se**	2	**-0.493**	ug/l	-0.49	53.2	4500	74	P	
88	**Sr**	3	**0.013**	ug/l	0.01	65.1	4500	74	P	
95	**Mo**	3	**0.015**	ug/l	0.01	124.3	4500	74	P	
107	**Ag**	3	**0.010**	ug/l	0.01	30.9	450	103	P	
111	**Cd**	3	**0.008**	ug/l	0.01	130.0	900	103	P	
118	**Sn**	3	**0.075**	ug/l	0.07	13.6	4500	103	P	
121	**Sb**	3	**0.076**	ug/l	0.08	16.5	4500	103	P	
135	**Ba**	3	**0.041**	ug/l	0.04	36.4	4500	103	P	
200	**Hg**	3	**9.217**	ug/l	9.22	2.1	45	209	P	
205	**Tl**	3	**0.700**	ug/l	0.70	2.8	4500	209	P	
208	**Pb**	3	**0.017**	ug/l	0.02	6.4	4500	209	P	
238	**U**	3	**0.011**	ug/l	0.01	10.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3636710	1.40	5119000	**71.0**	30	-	120	
45	Sc	1	160346	0.59	341400	**47.0**	30	-	120	
45	Sc	2	217451	0.86	273900	**79.4**	30	-	120	
74	Ge	1	139539	1.12	283600	**49.2**	30	-	120	
74	Ge	2	361917	0.67	422600	**85.6**	30	-	120	
74	Ge	3	1418573	1.76	1674000	**84.7**	30	-	120	
103	Rh	2	715312	0.94	814900	**87.8**	30	-	120	
103	Rh	3	1337412	1.56	1535000	**87.1**	30	-	120	
165	Ho	3	2952242	0.74	3236000	**91.2**	30	-	120	
175	Lu	3	3286719	1.93	3584000	**91.7**	30	-	120	
209	Bi	3	7051537	1.74	7619000	**92.6**	30	-	120	

Analytes: Pass **ISTD: Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\162SMPL.D\162SMPL.D#
Date Acquired: May 28 2010 07:28 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-32-B Vial Number: 4401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.722**	ug/l	7.22	7.2	450	6	P	
23	**Na**	2	**201.700**	ug/l	2,017.00	2.6	450000	45	P	
24	**Mg**	2	**17380.000**	ug/l	173,800.00	1.1	450000	45	A	
27	**Al**	2	**20270.000**	ug/l	202,700.00	1.5	450000	45	A	
31	**P**	2	**592.700**	ug/l	5,927.00	3.7	450000	45	P	
39	**K**	2	**2190.000**	ug/l	21,900.00	0.4	450000	45	P	
44	**Ca**	2	**1280.000**	ug/l	12,800.00	2.8	450000	45	P	
47	**Ti**	2	**203.100**	ug/l	2,031.00	1.4	4500	45	P	
51	**V**	2	**70.190**	ug/l	701.90	1.4	4500	45	P	
52	**Cr**	2	**1023.000**	ug/l	10,230.00	2.4	4500	45	A	
54	**Fe**	2	**144200.000**	ug/l	1,442,000.00	1.0	450000	74	A	
55	**Mn**	2	**2226.000**	ug/l	22,260.00	1.0	15000	45	A	
59	**Co**	2	**302.400**	ug/l	3,024.00	0.6	4500	45	P	
60	**Ni**	2	**3789.000**	ug/l	37,890.00	1.3	15000	45	A	
63	**Cu**	2	**26.890**	ug/l	268.90	2.1	15000	45	P	
66	**Zn**	2	**89.720**	ug/l	897.20	0.7	15000	45	P	
75	**As**	2	**9.024**	ug/l	90.24	2.4	4500	74	P	
78	**Se**	2	**0.542**	ug/l	5.42	63.6	4500	74	P	
88	**Sr**	3	**26.650**	ug/l	266.50	4.4	4500	74	P	
95	**Mo**	3	**0.463**	ug/l	4.63	11.3	4500	74	P	
107	**Ag**	3	**0.067**	ug/l	0.67	9.3	450	103	P	
111	**Cd**	3	**0.198**	ug/l	1.98	27.7	900	103	P	
118	**Sn**	3	**0.895**	ug/l	8.95	1.8	4500	103	P	
121	**Sb**	3	**1.498**	ug/l	14.98	5.2	4500	103	P	
135	**Ba**	3	**254.700**	ug/l	2,547.00	0.6	4500	103	P	
200	**Hg**	3	**52.400**	ug/l	524.00	1.0	45	209	P	Fail
205	**Tl**	3	**0.739**	ug/l	7.39	3.4	4500	209	P	
208	**Pb**	3	**14.340**	ug/l	143.40	0.7	4500	209	P	
238	**U**	3	**0.391**	ug/l	3.91	1.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3256325	1.82	5119000	**63.6**	30	-	120	
45	Sc	1	181110	0.59	341400	**53.0**	30	-	120	
45	Sc	2	218679	1.48	273900	**79.8**	30	-	120	
74	Ge	1	136961	1.13	283600	**48.3**	30	-	120	
74	Ge	2	319236	0.76	422600	**75.5**	30	-	120	
74	Ge	3	1299633	3.80	1674000	**77.6**	30	-	120	
103	Rh	2	615477	1.21	814900	**75.5**	30	-	120	
103	Rh	3	1218553	0.50	1535000	**79.4**	30	-	120	
165	Ho	3	2794449	0.63	3236000	**86.4**	30	-	120	
175	Lu	3	3136749	1.78	3584000	**87.5**	30	-	120	
209	Bi	3	6369790	0.69	7619000	**83.6**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\163SMPL.D\163SMPL.D#
Date Acquired: May 28 2010 07:35 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-1-E Vial Number: 4402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.047**	ug/l	10.47	1.3	450	6	P	
23	**Na**	2	**157.000**	ug/l	1,570.00	1.4	450000	45	P	
24	**Mg**	2	**86920.000**	ug/l	869,200.00	1.4	450000	45	A	
27	**Al**	2	**35450.000**	ug/l	354,500.00	1.1	450000	45	A	
31	**P**	2	**598.400**	ug/l	5,984.00	1.3	450000	45	P	
39	**K**	2	**2492.000**	ug/l	24,920.00	2.3	450000	45	M	
44	**Ca**	2	**20410.000**	ug/l	204,100.00	1.1	450000	45	P	
47	**Ti**	2	**360.500**	ug/l	3,605.00	2.0	4500	45	P	
51	**V**	2	**103.600**	ug/l	1,036.00	0.1	4500	45	P	
52	**Cr**	2	**463.000**	ug/l	4,630.00	0.7	4500	45	A	
54	**Fe**	2	**73660.000**	ug/l	736,600.00	0.5	450000	74	A	
55	**Mn**	2	**1249.000**	ug/l	12,490.00	0.4	15000	45	A	
59	**Co**	2	**60.950**	ug/l	609.50	1.5	4500	45	P	
60	**Ni**	2	**880.600**	ug/l	8,806.00	1.0	15000	45	P	
63	**Cu**	2	**55.640**	ug/l	556.40	1.9	15000	45	P	
66	**Zn**	2	**120.600**	ug/l	1,206.00	0.8	15000	45	P	
75	**As**	2	**10.660**	ug/l	106.60	1.9	4500	74	P	
78	**Se**	2	**0.636**	ug/l	6.36	44.6	4500	74	P	
88	**Sr**	3	**179.200**	ug/l	1,792.00	2.8	4500	74	A	
95	**Mo**	3	**0.979**	ug/l	9.79	2.8	4500	74	P	
107	**Ag**	3	**0.102**	ug/l	1.02	13.6	450	103	P	
111	**Cd**	3	**0.312**	ug/l	3.12	16.9	900	103	P	
118	**Sn**	3	**1.451**	ug/l	14.51	4.1	4500	103	P	
121	**Sb**	3	**1.545**	ug/l	15.45	4.8	4500	103	P	
135	**Ba**	3	**539.600**	ug/l	5,396.00	1.9	4500	103	P	
200	**Hg**	3	**22.410**	ug/l	224.10	1.4	45	209	P	
205	**Tl**	3	**0.523**	ug/l	5.23	1.5	4500	209	P	
208	**Pb**	3	**18.550**	ug/l	185.50	0.3	4500	209	P	
238	**U**	3	**0.517**	ug/l	5.17	1.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3618497	1.11	5119000	**70.7**	30	-	120	
45	Sc	1	194673	2.07	341400	**57.0**	30	-	120	
45	Sc	2	234566	0.65	273900	**85.6**	30	-	120	
74	Ge	1	149543	1.14	283600	**52.7**	30	-	120	
74	Ge	2	343755	0.87	422600	**81.3**	30	-	120	
74	Ge	3	1432527	1.87	1674000	**85.6**	30	-	120	
103	Rh	2	644673	1.52	814900	**79.1**	30	-	120	
103	Rh	3	1291990	1.47	1535000	**84.2**	30	-	120	
165	Ho	3	2947584	1.22	3236000	**91.1**	30	-	120	
175	Lu	3	3232431	0.58	3584000	**90.2**	30	-	120	
209	Bi	3	6450826	0.63	7619000	**84.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\164SMPL.D\164SMPL.D#
Date Acquired: May 28 2010 07:42 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-2-B Vial Number: 4403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.030**	ug/l	10.30	4.5	450	6	P	
23	**Na**	2	**139.500**	ug/l	1,395.00	1.4	450000	45	P	
24	**Mg**	2	**112600.000**	ug/l	1,126,000.00	1.7	450000	45	A	
27	**Al**	2	**36690.000**	ug/l	366,900.00	1.0	450000	45	A	
31	**P**	2	**586.700**	ug/l	5,867.00	5.1	450000	45	P	
39	**K**	2	**2212.000**	ug/l	22,120.00	1.8	450000	45	P	
44	**Ca**	2	**27980.000**	ug/l	279,800.00	1.4	450000	45	P	
47	**Ti**	2	**383.000**	ug/l	3,830.00	0.9	4500	45	P	
51	**V**	2	**115.400**	ug/l	1,154.00	1.6	4500	45	P	
52	**Cr**	2	**668.300**	ug/l	6,683.00	2.3	4500	45	A	
54	**Fe**	2	**81580.000**	ug/l	815,800.00	0.9	450000	74	A	
55	**Mn**	2	**1346.000**	ug/l	13,460.00	2.1	15000	45	A	
59	**Co**	2	**75.060**	ug/l	750.60	1.8	4500	45	P	
60	**Ni**	2	**1186.000**	ug/l	11,860.00	2.1	15000	45	P	
63	**Cu**	2	**55.430**	ug/l	554.30	1.6	15000	45	P	
66	**Zn**	2	**106.100**	ug/l	1,061.00	2.5	15000	45	P	
75	**As**	2	**10.840**	ug/l	108.40	2.7	4500	74	P	
78	**Se**	2	**0.942**	ug/l	9.42	44.5	4500	74	P	
88	**Sr**	3	**235.200**	ug/l	2,352.00	1.0	4500	74	A	
95	**Mo**	3	**0.910**	ug/l	9.10	7.7	4500	74	P	
107	**Ag**	3	**0.109**	ug/l	1.09	19.6	450	103	P	
111	**Cd**	3	**0.222**	ug/l	2.22	26.9	900	103	P	
118	**Sn**	3	**1.571**	ug/l	15.71	3.6	4500	103	P	
121	**Sb**	3	**1.707**	ug/l	17.07	3.8	4500	103	P	
135	**Ba**	3	**465.700**	ug/l	4,657.00	1.1	4500	103	P	
200	**Hg**	3	**23.740**	ug/l	237.40	1.0	45	209	P	
205	**Tl**	3	**0.480**	ug/l	4.80	3.6	4500	209	P	
208	**Pb**	3	**19.320**	ug/l	193.20	1.1	4500	209	P	
238	**U**	3	**0.485**	ug/l	4.85	2.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3708417	0.48	5119000	**72.4**	30	-	120	
45	Sc	1	176146	0.56	341400	**51.6**	30	-	120	
45	Sc	2	244182	1.40	273900	**89.2**	30	-	120	
74	Ge	1	132254	1.20	283600	**46.6**	30	-	120	
74	Ge	2	357151	0.55	422600	**84.5**	30	-	120	
74	Ge	3	1495393	0.35	1674000	**89.3**	30	-	120	
103	Rh	2	657293	0.79	814900	**80.7**	30	-	120	
103	Rh	3	1334968	1.51	1535000	**87.0**	30	-	120	
165	Ho	3	2997270	1.61	3236000	**92.6**	30	-	120	
175	Lu	3	3303988	1.14	3584000	**92.2**	30	-	120	
209	Bi	3	6514145	0.17	7619000	**85.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\165SMPL.D\165SMPL.D#
Date Acquired: May 28 2010 07:49 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-3-B Vial Number: 4404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.949**	ug/l	19.49	2.4	450	6	P	
23	**Na**	2	**520.300**	ug/l	5,203.00	2.8	450000	45	P	
24	**Mg**	2	**32890.000**	ug/l	328,900.00	2.7	450000	45	A	
27	**Al**	2	**32200.000**	ug/l	322,000.00	2.5	450000	45	A	
31	**P**	2	**1456.000**	ug/l	14,560.00	4.4	450000	45	P	
39	**K**	2	**3865.000**	ug/l	38,650.00	2.9	450000	45	A	
44	**Ca**	2	**25080.000**	ug/l	250,800.00	2.2	450000	45	P	
47	**Ti**	2	**1180.000**	ug/l	11,800.00	1.4	4500	45	P	
51	**V**	2	**111.800**	ug/l	1,118.00	1.8	4500	45	P	
52	**Cr**	2	**277.600**	ug/l	2,776.00	1.2	4500	45	P	
54	**Fe**	2	**73760.000**	ug/l	737,600.00	1.6	450000	74	A	
55	**Mn**	2	**1681.000**	ug/l	16,810.00	1.9	15000	45	A	
59	**Co**	2	**45.530**	ug/l	455.30	0.9	4500	45	P	
60	**Ni**	2	**393.200**	ug/l	3,932.00	0.6	15000	45	P	
63	**Cu**	2	**207.200**	ug/l	2,072.00	1.2	15000	45	P	
66	**Zn**	2	**13810.000**	ug/l	138,100.00	2.1	15000	45	A	
75	**As**	2	**12.950**	ug/l	129.50	2.9	4500	74	P	
78	**Se**	2	**2.855**	ug/l	28.55	7.5	4500	74	P	
88	**Sr**	3	**114.300**	ug/l	1,143.00	1.5	4500	74	A	
95	**Mo**	3	**2.151**	ug/l	21.51	4.8	4500	74	P	
107	**Ag**	3	**0.472**	ug/l	4.72	1.4	450	103	P	
111	**Cd**	3	**29.840**	ug/l	298.40	0.9	900	103	P	
118	**Sn**	3	**42.370**	ug/l	423.70	1.3	4500	103	P	
121	**Sb**	3	**6.121**	ug/l	61.21	2.1	4500	103	P	
135	**Ba**	3	**1795.000**	ug/l	17,950.00	1.1	4500	103	A	
200	**Hg**	3	**13.420**	ug/l	134.20	1.5	45	209	P	
205	**Tl**	3	**0.343**	ug/l	3.43	1.0	4500	209	P	
208	**Pb**	3	**950.200**	ug/l	9,502.00	0.5	4500	209	A	
238	**U**	3	**1.166**	ug/l	11.66	1.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3979491	0.86	5119000	**77.7**	30	-	120	
45	Sc	1	167420	1.77	341400	**49.0**	30	-	120	
45	Sc	2	250413	1.41	273900	**91.4**	30	-	120	
74	Ge	1	128822	0.76	283600	**45.4**	30	-	120	
74	Ge	2	370660	1.24	422600	**87.7**	30	-	120	
74	Ge	3	1523051	1.52	1674000	**91.0**	30	-	120	
103	Rh	2	693662	1.39	814900	**85.1**	30	-	120	
103	Rh	3	1375516	0.61	1535000	**89.6**	30	-	120	
165	Ho	3	3045900	2.61	3236000	**94.1**	30	-	120	
175	Lu	3	3382301	0.59	3584000	**94.4**	30	-	120	
209	Bi	3	6751512	0.18	7619000	**88.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\166SMPL.D\166SMPL.D#
Date Acquired: May 28 2010 07:56 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-4-B Vial Number: 4405
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.983**	ug/l	9.83	5.3	450	6	P	
23	**Na**	2	**124.200**	ug/l	1,242.00	3.2	450000	45	P	
24	**Mg**	2	**81760.000**	ug/l	817,600.00	1.3	450000	45	A	
27	**Al**	2	**32540.000**	ug/l	325,400.00	2.0	450000	45	A	
31	**P**	2	**652.800**	ug/l	6,528.00	1.1	450000	45	P	
39	**K**	2	**2154.000**	ug/l	21,540.00	2.3	450000	45	P	
44	**Ca**	2	**10700.000**	ug/l	107,000.00	1.4	450000	45	P	
47	**Ti**	2	**346.100**	ug/l	3,461.00	3.0	4500	45	P	
51	**V**	2	**102.400**	ug/l	1,024.00	1.1	4500	45	P	
52	**Cr**	2	**628.600**	ug/l	6,286.00	0.9	4500	45	A	
54	**Fe**	2	**77380.000**	ug/l	773,800.00	1.0	450000	74	A	
55	**Mn**	2	**1355.000**	ug/l	13,550.00	1.3	15000	45	A	
59	**Co**	2	**76.550**	ug/l	765.50	2.1	4500	45	P	
60	**Ni**	2	**1182.000**	ug/l	11,820.00	2.5	15000	45	M	
63	**Cu**	2	**56.100**	ug/l	561.00	1.9	15000	45	P	
66	**Zn**	2	**134.500**	ug/l	1,345.00	4.4	15000	45	P	
75	**As**	2	**11.640**	ug/l	116.40	2.2	4500	74	P	
78	**Se**	2	**0.451**	ug/l	4.51	62.4	4500	74	P	
88	**Sr**	3	**89.690**	ug/l	896.90	0.4	4500	74	P	
95	**Mo**	3	**0.879**	ug/l	8.79	10.7	4500	74	P	
107	**Ag**	3	**0.126**	ug/l	1.26	10.0	450	103	P	
111	**Cd**	3	**0.304**	ug/l	3.04	16.4	900	103	P	
118	**Sn**	3	**1.369**	ug/l	13.69	0.7	4500	103	P	
121	**Sb**	3	**1.436**	ug/l	14.36	3.5	4500	103	P	
135	**Ba**	3	**382.200**	ug/l	3,822.00	1.1	4500	103	P	
200	**Hg**	3	**32.810**	ug/l	328.10	0.8	45	209	P	
205	**Tl**	3	**0.395**	ug/l	3.95	3.8	4500	209	P	
208	**Pb**	3	**20.500**	ug/l	205.00	1.5	4500	209	P	
238	**U**	3	**0.509**	ug/l	5.09	3.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3857486	0.81	5119000	**75.4**	30	-	120	
45	Sc	1	163197	2.87	341400	**47.8**	30	-	120	
45	Sc	2	252134	1.21	273900	**92.1**	30	-	120	
74	Ge	1	122892	3.93	283600	**43.3**	30	-	120	
74	Ge	2	369152	1.33	422600	**87.4**	30	-	120	
74	Ge	3	1507870	1.17	1674000	**90.1**	30	-	120	
103	Rh	2	681663	1.20	814900	**83.6**	30	-	120	
103	Rh	3	1363089	1.89	1535000	**88.8**	30	-	120	
165	Ho	3	3011810	0.72	3236000	**93.1**	30	-	120	
175	Lu	3	3338839	0.80	3584000	**93.2**	30	-	120	
209	Bi	3	6575265	0.49	7619000	**86.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\167SMPL.D\167SMPL.D#
Date Acquired: May 28 2010 08:04 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-5-B Vial Number: 4406
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.863**	ug/l	8.63	2.3	450	6	P	
23	**Na**	2	**89.030**	ug/l	890.30	2.9	450000	45	P	
24	**Mg**	2	**30500.000**	ug/l	305,000.00	1.7	450000	45	A	
27	**Al**	2	**24520.000**	ug/l	245,200.00	1.5	450000	45	A	
31	**P**	2	**634.900**	ug/l	6,349.00	3.8	450000	45	P	
39	**K**	2	**1557.000**	ug/l	15,570.00	0.8	450000	45	P	
44	**Ca**	2	**10970.000**	ug/l	109,700.00	0.3	450000	45	P	
47	**Ti**	2	**741.200**	ug/l	7,412.00	0.8	4500	45	P	
51	**V**	2	**114.300**	ug/l	1,143.00	0.3	4500	45	P	
52	**Cr**	2	**195.900**	ug/l	1,959.00	1.0	4500	45	P	
54	**Fe**	2	**56990.000**	ug/l	569,900.00	1.0	450000	74	A	
55	**Mn**	2	**1431.000**	ug/l	14,310.00	0.6	15000	45	A	
59	**Co**	2	**33.130**	ug/l	331.30	1.3	4500	45	P	
60	**Ni**	2	**245.400**	ug/l	2,454.00	0.6	15000	45	P	
63	**Cu**	2	**80.860**	ug/l	808.60	0.9	15000	45	P	
66	**Zn**	2	**188.700**	ug/l	1,887.00	1.2	15000	45	P	
75	**As**	2	**14.900**	ug/l	149.00	0.8	4500	74	P	
78	**Se**	2	**0.458**	ug/l	4.58	227.2	4500	74	P	
88	**Sr**	3	**118.500**	ug/l	1,185.00	1.8	4500	74	A	
95	**Mo**	3	**1.898**	ug/l	18.98	3.6	4500	74	P	
107	**Ag**	3	**0.064**	ug/l	0.64	6.8	450	103	P	
111	**Cd**	3	**0.498**	ug/l	4.98	8.4	900	103	P	
118	**Sn**	3	**0.736**	ug/l	7.36	2.0	4500	103	P	
121	**Sb**	3	**0.738**	ug/l	7.38	5.3	4500	103	P	
135	**Ba**	3	**430.000**	ug/l	4,300.00	1.5	4500	103	P	
200	**Hg**	3	**23.410**	ug/l	234.10	2.0	45	209	P	
205	**Tl**	3	**0.325**	ug/l	3.25	4.7	4500	209	P	
208	**Pb**	3	**14.270**	ug/l	142.70	1.0	4500	209	P	
238	**U**	3	**0.267**	ug/l	2.67	2.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3987799	1.06	5119000	**77.9**	30	-	120	
45	Sc	1	170074	0.76	341400	**49.8**	30	-	120	
45	Sc	2	242280	0.59	273900	**88.5**	30	-	120	
74	Ge	1	132188	1.12	283600	**46.6**	30	-	120	
74	Ge	2	366612	1.38	422600	**86.8**	30	-	120	
74	Ge	3	1556577	0.97	1674000	**93.0**	30	-	120	
103	Rh	2	695584	0.25	814900	**85.4**	30	-	120	
103	Rh	3	1381815	1.04	1535000	**90.0**	30	-	120	
165	Ho	3	3111409	0.77	3236000	**96.1**	30	-	120	
175	Lu	3	3401900	0.69	3584000	**94.9**	30	-	120	
209	Bi	3	6820831	1.03	7619000	**89.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\168SMPL.D\168SMPL.D#
Date Acquired: May 28 2010 08:11 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-6-B Vial Number: 4407
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.758**	ug/l	7.58	3.8	450	6	P	
23	**Na**	2	**63.200**	ug/l	632.00	15.1	450000	45	P	
24	**Mg**	2	**29050.000**	ug/l	290,500.00	1.2	450000	45	A	
27	**Al**	2	**18350.000**	ug/l	183,500.00	1.5	450000	45	A	
31	**P**	2	**972.900**	ug/l	9,729.00	0.9	450000	45	P	
39	**K**	2	**2316.000**	ug/l	23,160.00	2.6	450000	45	M	
44	**Ca**	2	**14360.000**	ug/l	143,600.00	1.1	450000	45	P	
47	**Ti**	2	**332.100**	ug/l	3,321.00	1.4	4500	45	P	
51	**V**	2	**69.230**	ug/l	692.30	0.7	4500	45	P	
52	**Cr**	2	**112.200**	ug/l	1,122.00	0.6	4500	45	P	
54	**Fe**	2	**45200.000**	ug/l	452,000.00	1.1	450000	74	A	
55	**Mn**	2	**1010.000**	ug/l	10,100.00	0.9	15000	45	A	
59	**Co**	2	**32.300**	ug/l	323.00	0.8	4500	45	P	
60	**Ni**	2	**277.500**	ug/l	2,775.00	0.6	15000	45	P	
63	**Cu**	2	**64.500**	ug/l	645.00	0.9	15000	45	P	
66	**Zn**	2	**133.500**	ug/l	1,335.00	1.4	15000	45	P	
75	**As**	2	**11.600**	ug/l	116.00	0.5	4500	74	P	
78	**Se**	2	**0.590**	ug/l	5.90	209.7	4500	74	P	
88	**Sr**	3	**129.500**	ug/l	1,295.00	0.8	4500	74	A	
95	**Mo**	3	**0.754**	ug/l	7.54	4.8	4500	74	P	
107	**Ag**	3	**0.118**	ug/l	1.18	9.3	450	103	P	
111	**Cd**	3	**0.431**	ug/l	4.31	10.7	900	103	P	
118	**Sn**	3	**0.640**	ug/l	6.40	4.6	4500	103	P	
121	**Sb**	3	**0.837**	ug/l	8.37	4.5	4500	103	P	
135	**Ba**	3	**420.500**	ug/l	4,205.00	2.1	4500	103	P	
200	**Hg**	3	**30.870**	ug/l	308.70	0.6	45	209	P	
205	**Tl**	3	**0.219**	ug/l	2.19	1.9	4500	209	P	
208	**Pb**	3	**54.060**	ug/l	540.60	0.4	4500	209	P	
238	**U**	3	**0.307**	ug/l	3.07	1.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4252858	0.97	5119000	**83.1**	30	-	120	
45	Sc	1	153614	1.55	341400	**45.0**	30	-	120	
45	Sc	2	243329	0.34	273900	**88.8**	30	-	120	
74	Ge	1	123527	1.14	283600	**43.6**	30	-	120	
74	Ge	2	377863	0.86	422600	**89.4**	30	-	120	
74	Ge	3	1563569	1.70	1674000	**93.4**	30	-	120	
103	Rh	2	708478	0.79	814900	**86.9**	30	-	120	
103	Rh	3	1419264	1.01	1535000	**92.5**	30	-	120	
165	Ho	3	3070665	0.96	3236000	**94.9**	30	-	120	
175	Lu	3	3408652	0.67	3584000	**95.1**	30	-	120	
209	Bi	3	6916818	0.30	7619000	**90.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\169SMPL.D\169SMPL.D#
Date Acquired: May 28 2010 08:18 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-7-B Vial Number: 4408
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.362**	ug/l	13.62	1.5	450	6	P	
23	**Na**	2	**228.400**	ug/l	2,284.00	0.6	450000	45	P	
24	**Mg**	2	**95190.000**	ug/l	951,900.00	0.2	450000	45	A	
27	**Al**	2	**38650.000**	ug/l	386,500.00	0.9	450000	45	A	
31	**P**	2	**758.000**	ug/l	7,580.00	3.4	450000	45	P	
39	**K**	2	**2956.000**	ug/l	29,560.00	1.5	450000	45	A	
44	**Ca**	2	**25150.000**	ug/l	251,500.00	0.3	450000	45	P	
47	**Ti**	2	**455.300**	ug/l	4,553.00	0.9	4500	45	P	
51	**V**	2	**113.800**	ug/l	1,138.00	0.4	4500	45	P	
52	**Cr**	2	**545.800**	ug/l	5,458.00	1.8	4500	45	A	
54	**Fe**	2	**81110.000**	ug/l	811,100.00	1.6	450000	74	A	
55	**Mn**	2	**1428.000**	ug/l	14,280.00	0.1	15000	45	A	
59	**Co**	2	**70.200**	ug/l	702.00	0.8	4500	45	P	
60	**Ni**	2	**1020.000**	ug/l	10,200.00	0.9	15000	45	P	
63	**Cu**	2	**81.610**	ug/l	816.10	1.1	15000	45	P	
66	**Zn**	2	**1968.000**	ug/l	19,680.00	2.3	15000	45	A	
75	**As**	2	**12.380**	ug/l	123.80	2.7	4500	74	P	
78	**Se**	2	**1.333**	ug/l	13.33	60.8	4500	74	P	
88	**Sr**	3	**186.700**	ug/l	1,867.00	1.0	4500	74	A	
95	**Mo**	3	**1.171**	ug/l	11.71	3.2	4500	74	P	
107	**Ag**	3	**0.188**	ug/l	1.88	7.2	450	103	P	
111	**Cd**	3	**3.689**	ug/l	36.89	6.3	900	103	P	
118	**Sn**	3	**7.654**	ug/l	76.54	2.5	4500	103	P	
121	**Sb**	3	**2.022**	ug/l	20.22	3.3	4500	103	P	
135	**Ba**	3	**653.200**	ug/l	6,532.00	2.1	4500	103	P	
200	**Hg**	3	**25.440**	ug/l	254.40	0.9	45	209	P	
205	**Tl**	3	**0.362**	ug/l	3.62	3.1	4500	209	P	
208	**Pb**	3	**98.160**	ug/l	981.60	0.5	4500	209	A	
238	**U**	3	**0.736**	ug/l	7.36	2.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3993903	1.06	5119000	**78.0**	30	-	120	
45	Sc	1	155269	2.20	341400	**45.5**	30	-	120	
45	Sc	2	257976	0.62	273900	**94.2**	30	-	120	
74	Ge	1	116299	0.85	283600	**41.0**	30	-	120	
74	Ge	2	367668	1.47	422600	**87.0**	30	-	120	
74	Ge	3	1527305	1.13	1674000	**91.2**	30	-	120	
103	Rh	2	684723	1.44	814900	**84.0**	30	-	120	
103	Rh	3	1360782	1.54	1535000	**88.7**	30	-	120	
165	Ho	3	3047485	0.31	3236000	**94.2**	30	-	120	
175	Lu	3	3350152	0.69	3584000	**93.5**	30	-	120	
209	Bi	3	6618285	0.45	7619000	**86.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\170SMPL.D\170SMPL.D#
Date Acquired: May 28 2010 08:25 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-8-B Vial Number: 4409
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.351**	ug/l	3.51	5.4	450	6	P	
23	**Na**	2	**46.890**	ug/l	468.90	1.3	450000	45	P	
24	**Mg**	2	**191200.000**	ug/l	1,912,000.00	1.4	450000	45	A	
27	**Al**	2	**13660.000**	ug/l	136,600.00	1.8	450000	45	A	
31	**P**	2	**210.900**	ug/l	2,109.00	4.4	450000	45	P	
39	**K**	2	**704.000**	ug/l	7,040.00	1.4	450000	45	P	
44	**Ca**	2	**28450.000**	ug/l	284,500.00	0.7	450000	45	P	
47	**Ti**	2	**145.100**	ug/l	1,451.00	1.5	4500	45	P	
51	**V**	2	**65.820**	ug/l	658.20	0.5	4500	45	P	
52	**Cr**	2	**1224.000**	ug/l	12,240.00	0.3	4500	45	A	
54	**Fe**	2	**79890.000**	ug/l	798,900.00	0.4	450000	74	A	
55	**Mn**	2	**1391.000**	ug/l	13,910.00	0.4	15000	45	A	
59	**Co**	2	**127.600**	ug/l	1,276.00	0.8	4500	45	P	
60	**Ni**	2	**2414.000**	ug/l	24,140.00	0.5	15000	45	A	
63	**Cu**	2	**29.530**	ug/l	295.30	0.5	15000	45	P	
66	**Zn**	2	**92.840**	ug/l	928.40	0.5	15000	45	P	
75	**As**	2	**4.398**	ug/l	43.98	5.1	4500	74	P	
78	**Se**	2	**-0.044**	ug/l	-0.44	912.4	4500	74	P	
88	**Sr**	3	**403.100**	ug/l	4,031.00	2.0	4500	74	A	
95	**Mo**	3	**0.382**	ug/l	3.82	5.1	4500	74	P	
107	**Ag**	3	**0.034**	ug/l	0.34	32.5	450	103	P	
111	**Cd**	3	**0.204**	ug/l	2.04	21.8	900	103	P	
118	**Sn**	3	**2.690**	ug/l	26.90	3.1	4500	103	P	
121	**Sb**	3	**0.962**	ug/l	9.62	1.2	4500	103	P	
135	**Ba**	3	**261.000**	ug/l	2,610.00	0.5	4500	103	P	
200	**Hg**	3	**63.080**	ug/l	630.80	0.5	45	209	P	Fail
205	**Tl**	3	**0.322**	ug/l	3.22	1.2	4500	209	P	
208	**Pb**	3	**17.590**	ug/l	175.90	1.0	4500	209	P	
238	**U**	3	**0.290**	ug/l	2.90	0.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3925182	1.37	5119000	**76.7**	30	-	120	
45	Sc	1	156985	0.35	341400	**46.0**	30	-	120	
45	Sc	2	243285	0.48	273900	**88.8**	30	-	120	
74	Ge	1	117364	0.67	283600	**41.4**	30	-	120	
74	Ge	2	357228	0.82	422600	**84.5**	30	-	120	
74	Ge	3	1491792	1.26	1674000	**89.1**	30	-	120	
103	Rh	2	663056	0.69	814900	**81.4**	30	-	120	
103	Rh	3	1329632	0.21	1535000	**86.6**	30	-	120	
165	Ho	3	2971859	1.21	3236000	**91.8**	30	-	120	
175	Lu	3	3247560	0.82	3584000	**90.6**	30	-	120	
209	Bi	3	6451778	0.49	7619000	**84.7**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\171SMPL.D\171SMPL.D#
Date Acquired: May 28 2010 08:32 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-9-B Vial Number: 4410
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.032**	ug/l	10.32	0.8	450	6	P	
23	**Na**	2	**181.600**	ug/l	1,816.00	0.8	450000	45	P	
24	**Mg**	2	**111300.000**	ug/l	1,113,000.00	1.3	450000	45	A	
27	**Al**	2	**41200.000**	ug/l	412,000.00	1.6	450000	45	A	
31	**P**	2	**621.300**	ug/l	6,213.00	4.3	450000	45	P	
39	**K**	2	**2378.000**	ug/l	23,780.00	2.1	450000	45	A	
44	**Ca**	2	**34290.000**	ug/l	342,900.00	0.9	450000	45	P	
47	**Ti**	2	**198.600**	ug/l	1,986.00	0.6	4500	45	P	
51	**V**	2	**126.600**	ug/l	1,266.00	0.7	4500	45	P	
52	**Cr**	2	**703.000**	ug/l	7,030.00	0.8	4500	45	A	
54	**Fe**	2	**86330.000**	ug/l	863,300.00	1.6	450000	74	A	
55	**Mn**	2	**1360.000**	ug/l	13,600.00	0.5	15000	45	A	
59	**Co**	2	**81.370**	ug/l	813.70	0.7	4500	45	P	
60	**Ni**	2	**1331.000**	ug/l	13,310.00	1.2	15000	45	A	
63	**Cu**	2	**59.450**	ug/l	594.50	1.9	15000	45	P	
66	**Zn**	2	**131.500**	ug/l	1,315.00	0.7	15000	45	P	
75	**As**	2	**12.260**	ug/l	122.60	3.0	4500	74	P	
78	**Se**	2	**0.277**	ug/l	2.77	283.2	4500	74	P	
88	**Sr**	3	**289.100**	ug/l	2,891.00	0.8	4500	74	A	
95	**Mo**	3	**1.121**	ug/l	11.21	6.0	4500	74	P	
107	**Ag**	3	**0.132**	ug/l	1.32	9.4	450	103	P	
111	**Cd**	3	**0.259**	ug/l	2.59	9.0	900	103	P	
118	**Sn**	3	**1.727**	ug/l	17.27	6.9	4500	103	P	
121	**Sb**	3	**1.446**	ug/l	14.46	4.0	4500	103	P	
135	**Ba**	3	**652.100**	ug/l	6,521.00	2.6	4500	103	P	
200	**Hg**	3	**15.620**	ug/l	156.20	1.4	45	209	P	
205	**Tl**	3	**0.405**	ug/l	4.05	2.7	4500	209	P	
208	**Pb**	3	**16.360**	ug/l	163.60	0.7	4500	209	P	
238	**U**	3	**0.588**	ug/l	5.88	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3917679	1.90	5119000	**76.5**	30	-	120	
45	Sc	1	162252	1.43	341400	**47.5**	30	-	120	
45	Sc	2	263240	0.85	273900	**96.1**	30	-	120	
74	Ge	1	118325	0.85	283600	**41.7**	30	-	120	
74	Ge	2	371908	1.08	422600	**88.0**	30	-	120	
74	Ge	3	1541195	0.91	1674000	**92.1**	30	-	120	
103	Rh	2	687533	0.70	814900	**84.4**	30	-	120	
103	Rh	3	1380082	1.84	1535000	**89.9**	30	-	120	
165	Ho	3	3061996	0.29	3236000	**94.6**	30	-	120	
175	Lu	3	3376003	0.97	3584000	**94.2**	30	-	120	
209	Bi	3	6635069	0.28	7619000	**87.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\172SMPL.D\172SMPL.D#
Date Acquired: May 28 2010 08:39 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**51.930**	ug/l	51.93	1.2	450	6	P	
23	**Na**	2	**5004.000**	ug/l	5,004.00	3.2	450000	45	A	
24	**Mg**	2	**5162.000**	ug/l	5,162.00	1.4	450000	45	A	
27	**Al**	2	**504.900**	ug/l	504.90	1.8	450000	45	P	
31	**P**	2	**4947.000**	ug/l	4,947.00	2.4	450000	45	P	
39	**K**	2	**5195.000**	ug/l	5,195.00	1.7	450000	45	A	
44	**Ca**	2	**5223.000**	ug/l	5,223.00	2.0	450000	45	P	
47	**Ti**	2	**52.870**	ug/l	52.87	2.9	4500	45	P	
51	**V**	2	**53.390**	ug/l	53.39	1.1	4500	45	P	
52	**Cr**	2	**54.070**	ug/l	54.07	1.8	4500	45	P	
54	**Fe**	2	**5233.000**	ug/l	5,233.00	0.4	450000	74	P	
55	**Mn**	2	**53.990**	ug/l	53.99	0.9	15000	45	P	
59	**Co**	2	**54.840**	ug/l	54.84	1.0	4500	45	P	
60	**Ni**	2	**55.400**	ug/l	55.40	3.8	15000	45	P	
63	**Cu**	2	**56.070**	ug/l	56.07	0.4	15000	45	P	
66	**Zn**	2	**54.840**	ug/l	54.84	2.9	15000	45	P	
75	**As**	2	**51.710**	ug/l	51.71	0.6	4500	74	P	
78	**Se**	2	**51.780**	ug/l	51.78	4.5	4500	74	P	
88	**Sr**	3	**52.840**	ug/l	52.84	0.4	4500	74	P	
95	**Mo**	3	**53.070**	ug/l	53.07	2.6	4500	74	P	
107	**Ag**	3	**51.670**	ug/l	51.67	0.3	450	103	P	
111	**Cd**	3	**51.130**	ug/l	51.13	1.4	900	103	P	
118	**Sn**	3	**51.600**	ug/l	51.60	1.1	4500	103	P	
121	**Sb**	3	**51.490**	ug/l	51.49	0.8	4500	103	P	
135	**Ba**	3	**52.470**	ug/l	52.47	0.8	4500	103	P	
200	**Hg**	3	**9.563**	ug/l	9.56	0.9	45	209	P	
205	**Tl**	3	**52.440**	ug/l	52.44	1.4	4500	209	P	
208	**Pb**	3	**53.310**	ug/l	53.31	1.2	4500	209	P	
238	**U**	3	**52.470**	ug/l	52.47	0.5	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4136939	0.58	5119000	**80.8**	30	-	120	
45	Sc	1	153345	1.29	341400	**44.9**	30	-	120	
45	Sc	2	233780	1.25	273900	**85.4**	30	-	120	
74	Ge	1	129268	0.95	283600	**45.6**	30	-	120	
74	Ge	2	384148	0.75	422600	**90.9**	30	-	120	
74	Ge	3	1634266	0.80	1674000	**97.6**	30	-	120	
103	Rh	2	739694	0.99	814900	**90.8**	30	-	120	
103	Rh	3	1478270	1.85	1535000	**96.3**	30	-	120	
165	Ho	3	3157693	0.85	3236000	**97.6**	30	-	120	
175	Lu	3	3479251	0.85	3584000	**97.1**	30	-	120	
209	Bi	3	7212707	0.53	7619000	**94.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\173SMPL.D\173SMPL.D#
Date Acquired: May 28 2010 08:46 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.018**	ug/l	0.02	24.6	450	6	P	
23	**Na**	2	**-12.140**	ug/l	-12.14	11.6	450000	45	P	
24	**Mg**	2	**7.729**	ug/l	7.73	8.5	450000	45	P	
27	**Al**	2	**1.762**	ug/l	1.76	13.9	450000	45	P	
31	**P**	2	**-8.212**	ug/l	-8.21	49.3	450000	45	P	
39	**K**	2	**-5.435**	ug/l	-5.44	75.7	450000	45	P	
44	**Ca**	2	**4.150**	ug/l	4.15	31.9	450000	45	P	
47	**Ti**	2	**0.054**	ug/l	0.05	62.6	4500	45	P	
51	**V**	2	**-0.134**	ug/l	-0.13	7.4	4500	45	P	
52	**Cr**	2	**0.019**	ug/l	0.02	129.6	4500	45	P	
54	**Fe**	2	**4.876**	ug/l	4.88	3.6	450000	74	P	
55	**Mn**	2	**0.085**	ug/l	0.09	15.6	15000	45	P	
59	**Co**	2	**0.021**	ug/l	0.02	1.6	4500	45	P	
60	**Ni**	2	**0.058**	ug/l	0.06	99.7	15000	45	P	
63	**Cu**	2	**0.024**	ug/l	0.02	40.9	15000	45	P	
66	**Zn**	2	**0.180**	ug/l	0.18	10.6	15000	45	P	
75	**As**	2	**-0.086**	ug/l	-0.09	22.0	4500	74	P	
78	**Se**	2	**-0.430**	ug/l	-0.43	86.9	4500	74	P	
88	**Sr**	3	**0.020**	ug/l	0.02	19.4	4500	74	P	
95	**Mo**	3	**0.020**	ug/l	0.02	16.0	4500	74	P	
107	**Ag**	3	**0.008**	ug/l	0.01	56.2	450	103	P	
111	**Cd**	3	**0.020**	ug/l	0.02	85.0	900	103	P	
118	**Sn**	3	**0.044**	ug/l	0.04	37.3	4500	103	P	
121	**Sb**	3	**0.023**	ug/l	0.02	54.3	4500	103	P	
135	**Ba**	3	**0.020**	ug/l	0.02	54.5	4500	103	P	
200	**Hg**	3	**6.459**	ug/l	6.46	2.3	45	209	P	
205	**Tl**	3	**0.383**	ug/l	0.38	6.9	4500	209	P	
208	**Pb**	3	**0.021**	ug/l	0.02	5.0	4500	209	P	
238	**U**	3	**0.013**	ug/l	0.01	17.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4208331	1.83	5119000	**82.2**	30	-	120	
45	Sc	1	147054	1.88	341400	**43.1**	30	-	120	
45	Sc	2	240102	0.77	273900	**87.7**	30	-	120	
74	Ge	1	125423	0.60	283600	**44.2**	30	-	120	
74	Ge	2	394301	1.43	422600	**93.3**	30	-	120	
74	Ge	3	1603236	0.85	1674000	**95.8**	30	-	120	
103	Rh	2	769707	0.99	814900	**94.5**	30	-	120	
103	Rh	3	1490579	0.96	1535000	**97.1**	30	-	120	
165	Ho	3	3124457	0.99	3236000	**96.6**	30	-	120	
175	Lu	3	3466781	1.59	3584000	**96.7**	30	-	120	
209	Bi	3	7397250	1.23	7619000	**97.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\174SMPL.D\174SMPL.D#
Date Acquired: May 28 2010 08:53 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-10-B Vial Number: 4501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.846**	ug/l	0.85	0.7	450	6	P	
23	**Na**	2	**108.600**	ug/l	108.60	22.4	450000	45	P	
24	**Mg**	2	**35530.000**	ug/l	35,530.00	0.8	450000	45	A	
27	**Al**	2	**27090.000**	ug/l	27,090.00	1.2	450000	45	A	
31	**P**	2	**965.200**	ug/l	965.20	1.0	450000	45	P	
39	**K**	2	**2474.000**	ug/l	2,474.00	1.1	450000	45	A	
44	**Ca**	2	**7561.000**	ug/l	7,561.00	1.3	450000	45	P	
47	**Ti**	2	**538.600**	ug/l	538.60	0.3	4500	45	P	
51	**V**	2	**80.080**	ug/l	80.08	0.9	4500	45	P	
52	**Cr**	2	**315.800**	ug/l	315.80	0.5	4500	45	P	
54	**Fe**	2	**59660.000**	ug/l	59,660.00	0.5	450000	74	A	
55	**Mn**	2	**1165.000**	ug/l	1,165.00	1.5	15000	45	A	
59	**Co**	2	**53.420**	ug/l	53.42	0.3	4500	45	P	
60	**Ni**	2	**586.500**	ug/l	586.50	0.6	15000	45	P	
63	**Cu**	2	**53.560**	ug/l	53.56	0.6	15000	45	P	
66	**Zn**	2	**151.200**	ug/l	151.20	1.6	15000	45	P	
75	**As**	2	**10.580**	ug/l	10.58	0.2	4500	74	P	
78	**Se**	2	**0.228**	ug/l	0.23	104.6	4500	74	P	
88	**Sr**	3	**71.590**	ug/l	71.59	0.7	4500	74	P	
95	**Mo**	3	**0.995**	ug/l	1.00	8.5	4500	74	P	
107	**Ag**	3	**0.107**	ug/l	0.11	26.7	450	103	P	
111	**Cd**	3	**0.308**	ug/l	0.31	9.9	900	103	P	
118	**Sn**	3	**1.136**	ug/l	1.14	6.1	4500	103	P	
121	**Sb**	3	**0.974**	ug/l	0.97	4.9	4500	103	P	
135	**Ba**	3	**388.700**	ug/l	388.70	1.3	4500	103	P	
200	**Hg**	3	**68.750**	ug/l	68.75	0.9	45	209	P	Fail
205	**Tl**	3	**0.370**	ug/l	0.37	1.1	4500	209	P	
208	**Pb**	3	**21.500**	ug/l	21.50	1.0	4500	209	P	
238	**U**	3	**0.352**	ug/l	0.35	2.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4155766	0.87	5119000	**81.2**	30	-	120	
45	Sc	1	143635	0.45	341400	**42.1**	30	-	120	
45	Sc	2	256377	1.12	273900	**93.6**	30	-	120	
74	Ge	1	111986	0.68	283600	**39.5**	30	-	120	
74	Ge	2	388258	1.05	422600	**91.9**	30	-	120	
74	Ge	3	1606547	0.74	1674000	**96.0**	30	-	120	
103	Rh	2	722605	1.19	814900	**88.7**	30	-	120	
103	Rh	3	1429041	1.61	1535000	**93.1**	30	-	120	
165	Ho	3	3111144	0.92	3236000	**96.1**	30	-	120	
175	Lu	3	3448388	1.81	3584000	**96.2**	30	-	120	
209	Bi	3	6917126	0.26	7619000	**90.8**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\175SMPL.D\175SMPL.D#
Date Acquired: May 28 2010 09:00 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-11-B Vial Number: 4502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.900**	ug/l	0.90	6.1	450	6	P	
23	**Na**	2	**68.610**	ug/l	68.61	15.1	450000	45	P	
24	**Mg**	2	**106400.000**	ug/l	106,400.00	1.8	450000	45	A	
27	**Al**	2	**31440.000**	ug/l	31,440.00	1.4	450000	45	A	
31	**P**	2	**689.900**	ug/l	689.90	0.6	450000	45	P	
39	**K**	2	**1727.000**	ug/l	1,727.00	2.7	450000	45	P	
44	**Ca**	2	**6929.000**	ug/l	6,929.00	1.1	450000	45	P	
47	**Ti**	2	**505.800**	ug/l	505.80	2.5	4500	45	P	
51	**V**	2	**100.300**	ug/l	100.30	1.7	4500	45	P	
52	**Cr**	2	**741.000**	ug/l	741.00	1.7	4500	45	A	
54	**Fe**	2	**81490.000**	ug/l	81,490.00	1.3	450000	74	A	
55	**Mn**	2	**1484.000**	ug/l	1,484.00	1.8	15000	45	A	
59	**Co**	2	**107.200**	ug/l	107.20	1.7	4500	45	P	
60	**Ni**	2	**1517.000**	ug/l	1,517.00	1.0	15000	45	A	
63	**Cu**	2	**68.370**	ug/l	68.37	1.4	15000	45	P	
66	**Zn**	2	**135.400**	ug/l	135.40	3.0	15000	45	P	
75	**As**	2	**13.080**	ug/l	13.08	2.3	4500	74	P	
78	**Se**	2	**0.276**	ug/l	0.28	94.5	4500	74	P	
88	**Sr**	3	**82.830**	ug/l	82.83	0.4	4500	74	P	
95	**Mo**	3	**0.879**	ug/l	0.88	1.7	4500	74	P	
107	**Ag**	3	**0.158**	ug/l	0.16	16.3	450	103	P	
111	**Cd**	3	**0.319**	ug/l	0.32	8.8	900	103	P	
118	**Sn**	3	**1.943**	ug/l	1.94	3.7	4500	103	P	
121	**Sb**	3	**1.261**	ug/l	1.26	2.1	4500	103	P	
135	**Ba**	3	**313.400**	ug/l	313.40	0.8	4500	103	P	
200	**Hg**	3	**149.700**	ug/l	149.70	1.1	45	209	P	Fail
205	**Tl**	3	**0.333**	ug/l	0.33	2.6	4500	209	P	
208	**Pb**	3	**28.670**	ug/l	28.67	1.5	4500	209	P	
238	**U**	3	**0.548**	ug/l	0.55	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3855398	1.07	5119000	**75.3**	30	-	120	
45	Sc	1	145109	0.13	341400	**42.5**	30	-	120	
45	Sc	2	248589	1.62	273900	**90.8**	30	-	120	
74	Ge	1	111267	0.41	283600	**39.2**	30	-	120	
74	Ge	2	370753	1.42	422600	**87.7**	30	-	120	
74	Ge	3	1552590	0.30	1674000	**92.7**	30	-	120	
103	Rh	2	689289	1.23	814900	**84.6**	30	-	120	
103	Rh	3	1385354	0.81	1535000	**90.3**	30	-	120	
165	Ho	3	3101504	1.75	3236000	**95.8**	30	-	120	
175	Lu	3	3398121	0.92	3584000	**94.8**	30	-	120	
209	Bi	3	6674756	0.31	7619000	**87.6**	30	-	120	

Analytes: Fail **ISTD: Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\176SMPL.D\176SMPL.D#
Date Acquired: May 28 2010 09:08 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-12-B Vial Number: 4503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.689**	ug/l	0.69	3.3	450	6	P	
23	**Na**	2	**28.770**	ug/l	28.77	8.9	450000	45	P	
24	**Mg**	2	**105500.000**	ug/l	105,500.00	0.9	450000	45	A	
27	**Al**	2	**22340.000**	ug/l	22,340.00	1.5	450000	45	A	
31	**P**	2	**668.100**	ug/l	668.10	1.4	450000	45	P	
39	**K**	2	**1445.000**	ug/l	1,445.00	1.0	450000	45	P	
44	**Ca**	2	**3927.000**	ug/l	3,927.00	1.6	450000	45	P	
47	**Ti**	2	**409.300**	ug/l	409.30	0.3	4500	45	P	
51	**V**	2	**72.850**	ug/l	72.85	0.4	4500	45	P	
52	**Cr**	2	**648.500**	ug/l	648.50	1.1	4500	45	A	
54	**Fe**	2	**69230.000**	ug/l	69,230.00	0.3	450000	74	A	
55	**Mn**	2	**1138.000**	ug/l	1,138.00	0.2	15000	45	A	
59	**Co**	2	**79.900**	ug/l	79.90	0.4	4500	45	P	
60	**Ni**	2	**1222.000**	ug/l	1,222.00	1.7	15000	45	A	
63	**Cu**	2	**45.230**	ug/l	45.23	0.7	15000	45	P	
66	**Zn**	2	**132.800**	ug/l	132.80	0.9	15000	45	P	
75	**As**	2	**8.724**	ug/l	8.72	2.1	4500	74	P	
78	**Se**	2	**0.203**	ug/l	0.20	200.1	4500	74	P	
88	**Sr**	3	**22.070**	ug/l	22.07	0.8	4500	74	P	
95	**Mo**	3	**0.618**	ug/l	0.62	4.7	4500	74	P	
107	**Ag**	3	**0.068**	ug/l	0.07	22.3	450	103	P	
111	**Cd**	3	**0.220**	ug/l	0.22	15.5	900	103	P	
118	**Sn**	3	**1.511**	ug/l	1.51	4.5	4500	103	P	
121	**Sb**	3	**0.787**	ug/l	0.79	5.6	4500	103	P	
135	**Ba**	3	**197.400**	ug/l	197.40	1.9	4500	103	P	
200	**Hg**	3	**221.700**	ug/l	221.70	1.7	45	209	P	Fail
205	**Tl**	3	**0.179**	ug/l	0.18	3.0	4500	209	P	
208	**Pb**	3	**21.260**	ug/l	21.26	1.5	4500	209	P	
238	**U**	3	**0.288**	ug/l	0.29	3.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3859710	3.45	5119000	**75.4**	30	-	120	
45	Sc	1	136630	2.31	341400	**40.0**	30	-	120	
45	Sc	2	242822	1.15	273900	**88.7**	30	-	120	
74	Ge	1	104527	2.89	283600	**36.9**	30	-	120	
74	Ge	2	366560	1.01	422600	**86.7**	30	-	120	
74	Ge	3	1559610	0.92	1674000	**93.2**	30	-	120	
103	Rh	2	694750	1.81	814900	**85.3**	30	-	120	
103	Rh	3	1398105	1.68	1535000	**91.1**	30	-	120	
165	Ho	3	3097289	0.68	3236000	**95.7**	30	-	120	
175	Lu	3	3376974	1.03	3584000	**94.2**	30	-	120	
209	Bi	3	6738178	2.14	7619000	**88.4**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\177SMPL.D\177SMPL.D#
Date Acquired: May 28 2010 09:15 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-13-B Vial Number: 4504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.017**	ug/l	0.02	23.7	450	6	P	
23	**Na**	2	**34.320**	ug/l	34.32	7.4	450000	45	P	
24	**Mg**	2	**394700.000**	ug/l	394,700.00	1.4	450000	45	A	
27	**Al**	2	**1459.000**	ug/l	1,459.00	0.4	450000	45	P	
31	**P**	2	**52.740**	ug/l	52.74	6.0	450000	45	P	
39	**K**	2	**58.660**	ug/l	58.66	8.1	450000	45	P	
44	**Ca**	2	**290.400**	ug/l	290.40	6.5	450000	45	P	
47	**Ti**	2	**16.540**	ug/l	16.54	2.6	4500	45	P	
51	**V**	2	**15.750**	ug/l	15.75	1.1	4500	45	P	
52	**Cr**	2	**784.600**	ug/l	784.60	1.7	4500	45	A	
54	**Fe**	2	**99470.000**	ug/l	99,470.00	0.9	450000	74	A	
55	**Mn**	2	**1562.000**	ug/l	1,562.00	0.9	15000	45	A	
59	**Co**	2	**201.300**	ug/l	201.30	0.2	4500	45	P	
60	**Ni**	2	**3866.000**	ug/l	3,866.00	0.5	15000	45	A	
63	**Cu**	2	**17.400**	ug/l	17.40	1.4	15000	45	P	
66	**Zn**	2	**46.530**	ug/l	46.53	1.3	15000	45	P	
75	**As**	2	**0.405**	ug/l	0.41	8.9	4500	74	P	
78	**Se**	2	**-0.116**	ug/l	-0.12	491.8	4500	74	P	
88	**Sr**	3	**1.859**	ug/l	1.86	1.4	4500	74	P	
95	**Mo**	3	**0.053**	ug/l	0.05	35.8	4500	74	P	
107	**Ag**	3	**0.006**	ug/l	0.01	71.1	450	103	P	
111	**Cd**	3	**0.030**	ug/l	0.03	61.4	900	103	P	
118	**Sn**	3	**0.140**	ug/l	0.14	12.6	4500	103	P	
121	**Sb**	3	**0.088**	ug/l	0.09	14.8	4500	103	P	
135	**Ba**	3	**8.876**	ug/l	8.88	5.3	4500	103	P	
200	**Hg**	3	**14.400**	ug/l	14.40	1.5	45	209	P	
205	**Tl**	3	**0.088**	ug/l	0.09	10.7	4500	209	P	
208	**Pb**	3	**4.998**	ug/l	5.00	0.8	4500	209	P	
238	**U**	3	**0.014**	ug/l	0.01	3.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3822408	0.63	5119000	**74.7**	30	-	120	
45	Sc	1	136148	0.89	341400	**39.9**	30	-	120	
45	Sc	2	233393	0.72	273900	**85.2**	30	-	120	
74	Ge	1	105309	2.21	283600	**37.1**	30	-	120	
74	Ge	2	349143	0.72	422600	**82.6**	30	-	120	
74	Ge	3	1463659	0.70	1674000	**87.4**	30	-	120	
103	Rh	2	641858	0.52	814900	**78.8**	30	-	120	
103	Rh	3	1302936	1.49	1535000	**84.9**	30	-	120	
165	Ho	3	2899267	0.84	3236000	**89.6**	30	-	120	
175	Lu	3	3228204	0.24	3584000	**90.1**	30	-	120	
209	Bi	3	6244323	0.94	7619000	**82.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\178SMPL.D\178SMPL.D#
Date Acquired: May 28 2010 09:22 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-14-B Vial Number: 4505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.718**	ug/l	0.72	3.9	450	6	P	
23	**Na**	2	**32.040**	ug/l	32.04	6.3	450000	45	P	
24	**Mg**	2	**95950.000**	ug/l	95,950.00	1.5	450000	45	A	
27	**Al**	2	**9729.000**	ug/l	9,729.00	0.6	450000	45	A	
31	**P**	2	**376.500**	ug/l	376.50	6.9	450000	45	P	
39	**K**	2	**564.100**	ug/l	564.10	2.0	450000	45	P	
44	**Ca**	2	**1422.000**	ug/l	1,422.00	2.0	450000	45	P	
47	**Ti**	2	**125.300**	ug/l	125.30	1.0	4500	45	P	
51	**V**	2	**57.010**	ug/l	57.01	2.1	4500	45	P	
52	**Cr**	2	**972.600**	ug/l	972.60	1.6	4500	45	A	
54	**Fe**	2	**136800.000**	ug/l	136,800.00	0.3	450000	74	A	
55	**Mn**	2	**2102.000**	ug/l	2,102.00	1.0	15000	45	A	
59	**Co**	2	**264.600**	ug/l	264.60	1.2	4500	45	P	
60	**Ni**	2	**5143.000**	ug/l	5,143.00	1.4	15000	45	A	
63	**Cu**	2	**30.520**	ug/l	30.52	0.7	15000	45	P	
66	**Zn**	2	**92.810**	ug/l	92.81	0.4	15000	45	P	
75	**As**	2	**3.484**	ug/l	3.48	2.4	4500	74	P	
78	**Se**	2	**0.864**	ug/l	0.86	62.6	4500	74	P	
88	**Sr**	3	**10.270**	ug/l	10.27	2.0	4500	74	P	
95	**Mo**	3	**0.342**	ug/l	0.34	11.9	4500	74	P	
107	**Ag**	3	**0.043**	ug/l	0.04	17.7	450	103	P	
111	**Cd**	3	**0.432**	ug/l	0.43	8.0	900	103	P	
118	**Sn**	3	**0.608**	ug/l	0.61	9.0	4500	103	P	
121	**Sb**	3	**0.843**	ug/l	0.84	2.0	4500	103	P	
135	**Ba**	3	**179.100**	ug/l	179.10	1.6	4500	103	P	
200	**Hg**	3	**88.660**	ug/l	88.66	0.8	45	209	P	Fail
205	**Tl**	3	**0.533**	ug/l	0.53	1.5	4500	209	P	
208	**Pb**	3	**26.920**	ug/l	26.92	1.2	4500	209	P	
238	**U**	3	**0.216**	ug/l	0.22	1.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3622328	1.08	5119000	**70.8**	30	-	120	
45	Sc	1	126641	0.78	341400	**37.1**	30	-	120	
45	Sc	2	239995	1.12	273900	**87.6**	30	-	120	
74	Ge	1	93157	1.21	283600	**32.8**	30	-	120	
74	Ge	2	354186	0.70	422600	**83.8**	30	-	120	
74	Ge	3	1483047	1.06	1674000	**88.6**	30	-	120	
103	Rh	2	673434	1.34	814900	**82.6**	30	-	120	
103	Rh	3	1327100	2.24	1535000	**86.5**	30	-	120	
165	Ho	3	2982264	0.65	3236000	**92.2**	30	-	120	
175	Lu	3	3312827	1.15	3584000	**92.4**	30	-	120	
209	Bi	3	6574908	0.47	7619000	**86.3**	30	-	120	

Analytes: **Fail** **ISTD:** **Pass**

1 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\179SMPL.D\179SMPL.D#
Date Acquired: May 28 2010 09:29 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-15-B Vial Number: 4506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.759**	ug/l	0.76	5.9	450	6	P	
23	**Na**	2	**55.850**	ug/l	55.85	4.5	450000	45	P	
24	**Mg**	2	**83450.000**	ug/l	83,450.00	0.6	450000	45	A	
27	**Al**	2	**37540.000**	ug/l	37,540.00	0.5	450000	45	A	
31	**P**	2	**1042.000**	ug/l	1,042.00	5.1	450000	45	P	
39	**K**	2	**1715.000**	ug/l	1,715.00	0.9	450000	45	P	
44	**Ca**	2	**6665.000**	ug/l	6,665.00	0.5	450000	45	P	
47	**Ti**	2	**1019.000**	ug/l	1,019.00	0.5	4500	45	P	
51	**V**	2	**101.300**	ug/l	101.30	0.6	4500	45	P	
52	**Cr**	2	**595.900**	ug/l	595.90	0.9	4500	45	A	
54	**Fe**	2	**84600.000**	ug/l	84,600.00	0.8	450000	74	A	
55	**Mn**	2	**1893.000**	ug/l	1,893.00	0.2	15000	45	A	
59	**Co**	2	**74.010**	ug/l	74.01	0.4	4500	45	P	
60	**Ni**	2	**899.800**	ug/l	899.80	0.4	15000	45	P	
63	**Cu**	2	**87.260**	ug/l	87.26	0.4	15000	45	P	
66	**Zn**	2	**152.800**	ug/l	152.80	1.3	15000	45	P	
75	**As**	2	**15.480**	ug/l	15.48	1.7	4500	74	P	
78	**Se**	2	**0.674**	ug/l	0.67	121.3	4500	74	P	
88	**Sr**	3	**33.660**	ug/l	33.66	0.2	4500	74	P	
95	**Mo**	3	**1.378**	ug/l	1.38	7.1	4500	74	P	
107	**Ag**	3	**0.136**	ug/l	0.14	3.0	450	103	P	
111	**Cd**	3	**0.358**	ug/l	0.36	3.9	900	103	P	
118	**Sn**	3	**0.552**	ug/l	0.55	7.0	4500	103	P	
121	**Sb**	3	**1.008**	ug/l	1.01	3.0	4500	103	P	
135	**Ba**	3	**361.900**	ug/l	361.90	0.7	4500	103	P	
200	**Hg**	3	**20.090**	ug/l	20.09	0.5	45	209	P	
205	**Tl**	3	**0.173**	ug/l	0.17	3.7	4500	209	P	
208	**Pb**	3	**26.690**	ug/l	26.69	0.2	4500	209	P	
238	**U**	3	**0.385**	ug/l	0.39	2.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3866873	0.71	5119000	**75.5**	30	-	120	
45	Sc	1	132702	2.34	341400	**38.9**	30	-	120	
45	Sc	2	235722	0.16	273900	**86.1**	30	-	120	
74	Ge	1	104563	1.60	283600	**36.9**	30	-	120	
74	Ge	2	356761	0.63	422600	**84.4**	30	-	120	
74	Ge	3	1531676	1.41	1674000	**91.5**	30	-	120	
103	Rh	2	676401	0.94	814900	**83.0**	30	-	120	
103	Rh	3	1391240	0.60	1535000	**90.6**	30	-	120	
165	Ho	3	3050217	0.51	3236000	**94.3**	30	-	120	
175	Lu	3	3385704	0.92	3584000	**94.5**	30	-	120	
209	Bi	3	6711011	0.38	7619000	**88.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\180SMPL.D\180SMPL.D#
Date Acquired: May 28 2010 09:36 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**50.800**	ug/l	50.80	0.2	450	6	P	
23	**Na**	2	**4995.000**	ug/l	4,995.00	1.3	450000	45	A	
24	**Mg**	2	**4982.000**	ug/l	4,982.00	1.3	450000	45	A	
27	**Al**	2	**493.600**	ug/l	493.60	0.6	450000	45	P	
31	**P**	2	**4743.000**	ug/l	4,743.00	0.6	450000	45	P	
39	**K**	2	**5170.000**	ug/l	5,170.00	0.7	450000	45	A	
44	**Ca**	2	**5172.000**	ug/l	5,172.00	0.9	450000	45	P	
47	**Ti**	2	**52.610**	ug/l	52.61	1.9	4500	45	P	
51	**V**	2	**52.740**	ug/l	52.74	1.6	4500	45	P	
52	**Cr**	2	**53.100**	ug/l	53.10	1.2	4500	45	P	
54	**Fe**	2	**5180.000**	ug/l	5,180.00	1.0	450000	74	P	
55	**Mn**	2	**53.710**	ug/l	53.71	0.9	15000	45	P	
59	**Co**	2	**54.520**	ug/l	54.52	0.7	4500	45	P	
60	**Ni**	2	**55.880**	ug/l	55.88	1.9	15000	45	P	
63	**Cu**	2	**55.810**	ug/l	55.81	1.3	15000	45	P	
66	**Zn**	2	**56.220**	ug/l	56.22	1.6	15000	45	P	
75	**As**	2	**51.540**	ug/l	51.54	0.6	4500	74	P	
78	**Se**	2	**49.320**	ug/l	49.32	2.5	4500	74	P	
88	**Sr**	3	**53.760**	ug/l	53.76	1.6	4500	74	P	
95	**Mo**	3	**53.220**	ug/l	53.22	0.6	4500	74	P	
107	**Ag**	3	**52.040**	ug/l	52.04	1.6	450	103	P	
111	**Cd**	3	**51.990**	ug/l	51.99	1.6	900	103	P	
118	**Sn**	3	**52.760**	ug/l	52.76	0.5	4500	103	P	
121	**Sb**	3	**52.440**	ug/l	52.44	0.4	4500	103	P	
135	**Ba**	3	**54.040**	ug/l	54.04	1.0	4500	103	P	
200	**Hg**	3	**7.637**	ug/l	7.64	1.5	45	209	P	
205	**Tl**	3	**51.840**	ug/l	51.84	1.2	4500	209	P	
208	**Pb**	3	**52.950**	ug/l	52.95	1.1	4500	209	P	
238	**U**	3	**52.690**	ug/l	52.69	0.7	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3896397	0.92	5119000	**76.1**	30	-	120	
45	Sc	1	137949	2.11	341400	**40.4**	30	-	120	
45	Sc	2	215826	1.11	273900	**78.8**	30	-	120	
74	Ge	1	115656	0.91	283600	**40.8**	30	-	120	
74	Ge	2	355226	1.35	422600	**84.1**	30	-	120	
74	Ge	3	1511883	1.63	1674000	**90.3**	30	-	120	
103	Rh	2	691815	1.75	814900	**84.9**	30	-	120	
103	Rh	3	1381451	0.68	1535000	**90.0**	30	-	120	
165	Ho	3	3013627	1.31	3236000	**93.1**	30	-	120	
175	Lu	3	3332025	1.10	3584000	**93.0**	30	-	120	
209	Bi	3	7084010	0.53	7619000	**93.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\181SMPL.D\181SMPL.D#
Date Acquired: May 28 2010 09:43 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.013**	ug/l	0.01	27.5	450	6	P	
23	**Na**	2	**-6.599**	ug/l	-6.60	0.6	450000	45	P	
24	**Mg**	2	**6.903**	ug/l	6.90	10.2	450000	45	P	
27	**Al**	2	**1.539**	ug/l	1.54	16.0	450000	45	P	
31	**P**	2	**-4.851**	ug/l	-4.85	89.5	450000	45	P	
39	**K**	2	**8.177**	ug/l	8.18	55.2	450000	45	P	
44	**Ca**	2	**1.091**	ug/l	1.09	112.4	450000	45	P	
47	**Ti**	2	**0.084**	ug/l	0.08	48.9	4500	45	P	
51	**V**	2	**-0.133**	ug/l	-0.13	11.3	4500	45	P	
52	**Cr**	2	**0.072**	ug/l	0.07	63.0	4500	45	P	
54	**Fe**	2	**4.556**	ug/l	4.56	5.4	450000	74	P	
55	**Mn**	2	**0.254**	ug/l	0.25	6.4	15000	45	P	
59	**Co**	2	**0.024**	ug/l	0.02	9.3	4500	45	P	
60	**Ni**	2	**0.094**	ug/l	0.09	42.8	15000	45	P	
63	**Cu**	2	**0.026**	ug/l	0.03	120.6	15000	45	P	
66	**Zn**	2	**0.231**	ug/l	0.23	27.3	15000	45	P	
75	**As**	2	**-0.055**	ug/l	-0.05	49.7	4500	74	P	
78	**Se**	2	**-0.059**	ug/l	-0.06	1016.0	4500	74	P	
88	**Sr**	3	**0.012**	ug/l	0.01	66.7	4500	74	P	
95	**Mo**	3	**0.018**	ug/l	0.02	10.8	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.00	74.9	450	103	P	
111	**Cd**	3	**0.002**	ug/l	0.00	141.8	900	103	P	
118	**Sn**	3	**0.030**	ug/l	0.03	40.0	4500	103	P	
121	**Sb**	3	**0.017**	ug/l	0.02	32.3	4500	103	P	
135	**Ba**	3	**0.020**	ug/l	0.02	96.3	4500	103	P	
200	**Hg**	3	**4.284**	ug/l	4.28	2.1	45	209	P	
205	**Tl**	3	**0.389**	ug/l	0.39	9.5	4500	209	P	
208	**Pb**	3	**0.020**	ug/l	0.02	14.3	4500	209	P	
238	**U**	3	**0.007**	ug/l	0.01	19.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3757771	0.11	5119000	**73.4**	30	-	120	
45	Sc	1	145020	2.24	341400	**42.5**	30	-	120	
45	Sc	2	218129	0.90	273900	**79.6**	30	-	120	
74	Ge	1	125244	2.19	283600	**44.2**	30	-	120	
74	Ge	2	367777	0.85	422600	**87.0**	30	-	120	
74	Ge	3	1476464	1.07	1674000	**88.2**	30	-	120	
103	Rh	2	722418	1.09	814900	**88.7**	30	-	120	
103	Rh	3	1394308	1.17	1535000	**90.8**	30	-	120	
165	Ho	3	2966178	1.07	3236000	**91.7**	30	-	120	
175	Lu	3	3333346	1.16	3584000	**93.0**	30	-	120	
209	Bi	3	7194909	0.31	7619000	**94.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\182SMPL.D\182SMPL.D#
Date Acquired: May 28 2010 09:50 am Acq. Method: 0NEW_ALL.M
Sample Name: ICSA Vial Number: 1101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.009**	ug/l	0.01	33.0	450	6	P	
23	**Na**	2	**238100.000**	ug/l	238,100.00	1.7	450000	45	A	
24	**Mg**	2	**93380.000**	ug/l	93,380.00	0.3	450000	45	A	
27	**Al**	2	**89830.000**	ug/l	89,830.00	1.2	450000	45	A	
31	**P**	2	**98640.000**	ug/l	98,640.00	0.4	450000	45	A	
39	**K**	2	**99380.000**	ug/l	99,380.00	1.6	450000	45	A	
44	**Ca**	2	**293000.000**	ug/l	293,000.00	0.2	450000	45	A	
47	**Ti**	2	**2083.000**	ug/l	2,083.00	0.6	4500	45	P	
51	**V**	2	**-0.061**	ug/l	-0.06	81.0	4500	45	P	
52	**Cr**	2	**1.151**	ug/l	1.15	8.7	4500	45	P	
54	**Fe**	2	**233400.000**	ug/l	233,400.00	1.3	450000	74	A	
55	**Mn**	2	**5.719**	ug/l	5.72	2.5	15000	45	P	
59	**Co**	2	**3.857**	ug/l	3.86	2.4	4500	45	P	
60	**Ni**	2	**2.897**	ug/l	2.90	10.5	15000	45	P	
63	**Cu**	2	**3.873**	ug/l	3.87	2.1	15000	45	P	
66	**Zn**	2	**3.583**	ug/l	3.58	8.9	15000	45	P	
75	**As**	2	**0.414**	ug/l	0.41	7.7	4500	74	P	
78	**Se**	2	**-0.295**	ug/l	-0.29	142.3	4500	74	P	
88	**Sr**	3	**18.410**	ug/l	18.41	2.4	4500	74	P	
95	**Mo**	3	**2179.000**	ug/l	2,179.00	0.4	4500	74	A	
107	**Ag**	3	**0.202**	ug/l	0.20	4.1	450	103	P	
111	**Cd**	3	**0.189**	ug/l	0.19	48.9	900	103	P	
118	**Sn**	3	**0.133**	ug/l	0.13	16.8	4500	103	P	
121	**Sb**	3	**0.726**	ug/l	0.73	4.9	4500	103	P	
135	**Ba**	3	**0.483**	ug/l	0.48	7.4	4500	103	P	
200	**Hg**	3	**3.891**	ug/l	3.89	1.7	45	209	P	
205	**Tl**	3	**0.171**	ug/l	0.17	7.9	4500	209	P	
208	**Pb**	3	**0.287**	ug/l	0.29	3.8	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.00	27.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3292854	1.69	5119000	**64.3**	30	-	120	
45	Sc	1	132911	0.76	341400	**38.9**	30	-	120	
45	Sc	2	216683	0.40	273900	**79.1**	30	-	120	
74	Ge	1	109168	1.89	283600	**38.5**	30	-	120	
74	Ge	2	343804	1.88	422600	**81.4**	30	-	120	
74	Ge	3	1433327	1.09	1674000	**85.6**	30	-	120	
103	Rh	2	595116	1.76	814900	**73.0**	30	-	120	
103	Rh	3	1258215	0.55	1535000	**82.0**	30	-	120	
165	Ho	3	2847099	0.92	3236000	**88.0**	30	-	120	
175	Lu	3	3139980	0.47	3584000	**87.6**	30	-	120	
209	Bi	3	5951602	0.55	7619000	**78.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052710C.B\183SMPL.D\183SMPL.D#
Date Acquired: May 28 2010 09:58 am Acq. Method: 0NEW_ALL.M
Sample Name: ICSAB Vial Number: 1102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 01:20 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052710C.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.00	75.6	450	6	P	
23	**Na**	2	**242800.000**	ug/l	242,800.00	0.7	450000	45	A	
24	**Mg**	2	**95850.000**	ug/l	95,850.00	0.6	450000	45	A	
27	**Al**	2	**91890.000**	ug/l	91,890.00	0.6	450000	45	A	
31	**P**	2	**101100.000**	ug/l	101,100.00	0.5	450000	45	A	
39	**K**	2	**101000.000**	ug/l	101,000.00	1.0	450000	45	A	
44	**Ca**	2	**297900.000**	ug/l	297,900.00	0.5	450000	45	A	
47	**Ti**	2	**2081.000**	ug/l	2,081.00	0.9	4500	45	P	
51	**V**	2	**217.700**	ug/l	217.70	1.0	4500	45	P	
52	**Cr**	2	**210.300**	ug/l	210.30	1.0	4500	45	P	
54	**Fe**	2	**234500.000**	ug/l	234,500.00	1.0	450000	74	A	
55	**Mn**	2	**212.400**	ug/l	212.40	1.6	15000	45	P	
59	**Co**	2	**214.000**	ug/l	214.00	1.1	4500	45	P	
60	**Ni**	2	**210.400**	ug/l	210.40	1.2	15000	45	P	
63	**Cu**	2	**205.700**	ug/l	205.70	2.1	15000	45	P	
66	**Zn**	2	**105.100**	ug/l	105.10	0.8	15000	45	P	
75	**As**	2	**112.200**	ug/l	112.20	0.4	4500	74	P	
78	**Se**	2	**111.400**	ug/l	111.40	4.3	4500	74	P	
88	**Sr**	3	**17.890**	ug/l	17.89	0.7	4500	74	P	
95	**Mo**	3	**2128.000**	ug/l	2,128.00	1.1	4500	74	A	
107	**Ag**	3	**52.600**	ug/l	52.60	1.2	450	103	P	
111	**Cd**	3	**108.000**	ug/l	108.00	1.1	900	103	P	
118	**Sn**	3	**0.131**	ug/l	0.13	20.0	4500	103	P	
121	**Sb**	3	**0.763**	ug/l	0.76	2.0	4500	103	P	
135	**Ba**	3	**0.457**	ug/l	0.46	9.2	4500	103	P	
200	**Hg**	3	**3.829**	ug/l	3.83	2.1	45	209	P	
205	**Tl**	3	**0.106**	ug/l	0.11	8.8	4500	209	P	
208	**Pb**	3	**0.297**	ug/l	0.30	1.5	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.00	50.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3283780	1.11	5119000	**64.1**	30	-	120	
45	Sc	1	130570	1.11	341400	**38.2**	30	-	120	
45	Sc	2	208064	0.25	273900	**76.0**	30	-	120	
74	Ge	1	104915	0.85	283600	**37.0**	30	-	120	
74	Ge	2	332880	0.50	422600	**78.8**	30	-	120	
74	Ge	3	1437990	0.38	1674000	**85.9**	30	-	120	
103	Rh	2	583699	0.21	814900	**71.6**	30	-	120	
103	Rh	3	1234601	0.90	1535000	**80.4**	30	-	120	
165	Ho	3	2829865	0.52	3236000	**87.4**	30	-	120	
175	Lu	3	3119890	0.90	3584000	**87.1**	30	-	120	
209	Bi	3	5925353	0.29	7619000	**77.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

Step	Mass	Element	r	b(blank)		DL	BEC	Unit	
3	6	Li	0.0000	---	---	---	ug/l		
3	7	Li	0.0000	---	---	---	ug/l		
3	9	Be	1.0000	2.192E-04		2.251E-03		4.174E-03	ug/l
1	45	Sc	0.0000	---	---	---	ug/l		
2	45	Sc	0.0000	---	---	---	ug/l		
2	60	Ni	0.9999	2.488E-02		4.228E-02		1.137E-01	ug/l
2	63	Cu	0.9999	1.986E-02		8.145E-02		3.517E-02	ug/l
2	66	Zn	0.9998	2.602E-02		1.966E-01		2.079E-01	ug/l
1	74	Ge	0.0000	---	---	---	ug/l		
2	74	Ge	0.0000	---	---	---	ug/l		
3	74	Ge	0.0000	---	---	---	ug/l		
2	78	Se	1.0000	3.809E-03		1.038	7.566E-01		ug/l
2	103	Rh	0.0000	---	---	---	ug/l		
3	103	Rh	0.0000	---	---	---	ug/l		
3	165	Ho	0.0000	---	---	---	ug/l		
3	175	Lu	0.0000	---	---	---	ug/l		
3	209	Bi	0.0000	---	---	---	ug/l		

TA Seattle/Tacoma Calibration Blank QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#
Date Acquired: May 28 2010 11:15 am Acq. Method: 0NEW_ALL.M
Sample Name: STD0 Vial Number: 1306
Misc Info:
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : ---

Tune #	Name
1	c:\icpchem\1\7500\h2.u
2	c:\icpchem\1\7500\he.u
3	c:\icpchem\1\7500\nogas.u

Sample Type: CalBlk

QC&ISTD Elements

Element		Tune	CPS Mean		SD	RSD(%)
6	Li	3	6852024.0	A	103400.00	1.51
7	Li	3	1044539.0	A	25000.00	2.39
9	Be	3	30.0	P	5.00	16.67
23	Na	2		P		
24	Mg	2		P		
25	Mg	2		P		
26	Mg	2		P		
27	Al	2		P		
31	P	2		P		
39	K	2		P		
40	Ca	1		P		
44	Ca	2		P		
45	Sc	1	249047.2	P	4390.00	1.76
45	Sc	2	274924.8	P	4162.00	1.51
45	Sc	3		A		
47	Ti	2		P		
50	V	2		P		
51	V	2		P		
52	Cr	2		P		
53	Cr	2		P		
54	Fe	1		P		
54	Fe	2		P		
55	Mn	2		P		
56	Fe	1		P		
59	Co	2		P		
60	Ni	2	136.7	P	15.28	11.18
61	Ni	2		P		
63	Cu	2	110.0	P	86.61	78.73
65	Cu	2		P		
66	Zn	2	143.3	P	46.19	32.22
67	Zn	2		P		
68	Zn	2		P		
74	Ge	1	197537.8	P	4495.00	2.28
74	Ge	2	437523.8	P	972.60	0.22
74	Ge	3	1769404.0	A	15140.00	0.86
75	As	2		P		
78	Se	1		P		
78	Se	2	33.3	P	15.28	45.84
88	Sr	2		P		
88	Sr	3		P		
95	Mo	3		P		
98	Mo	3		P		
99	(Mo)	3		P		
103	Rh	2	847182.7	P	8496.00	1.00
103	Rh	3	1573930.0	A	13470.00	0.86
106	(Cd)	3		P		
107	Ag	3		P		
108	(Cd)	3		P		
109	Ag	3		P		
111	Cd	3		P		
114	Cd	3		P		
118	Sn	2		P		
118	Sn	3		P		
120	Sn	3		P		
121	Sb	3		P		
123	Sb	3		P		
135	Ba	3		P		
137	Ba	3		P		
165	Ho	3	3039897.0	A	38250.00	1.26
175	Lu	3	3394676.0	A	36310.00	1.07
200	Hg	3		P		
201	Hg	3		P		
202	Hg	3		P		
203	Tl	3		P		
205	Tl	3		P		
206	Pb	3		P		
207	Pb	3		P		
208	Pb	3		P		
209	Bi	3	7066710.0	A	59710.00	0.84
238	U	3		P		

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052810B.B\007CALS.D\007CALS.D#
Date Acquired: May 28 2010 11:21 am
Acq. Method: 0NEW_ALL.M
Sample Name: **STD1**
Vial Number: 1305
Misc Info: Hg(0.005PPB),Al(1PPB),Na(10PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

Sample Type: CalStd

QC&ISTD Elements

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	643.4	P	98.28	15.28
60	Ni	45	2	290.0	P	91.66	31.61
63	Cu	45	2	536.7	P	81.45	15.18
66	Zn	45	2	396.7	P	76.38	19.25
78	Se	74	2	33.3	P	11.55	34.65

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6875725	1.48	6852000	100.3	30 - 120	
45	Sc	1	246272	0.38	249000	98.9	30 - 120	
45	Sc	2	275982	0.90	274900	100.4	30 - 120	
74	Ge	1	196402	1.07	197500	99.4	30 - 120	
74	Ge	2	437485	0.97	437500	100.0	30 - 120	
74	Ge	3	1775634	2.18	1769000	100.4	30 - 120	
103	Rh	2	846870	0.44	847200	100.0	30 - 120	
103	Rh	3	1589874	1.39	1574000	101.0	30 - 120	
165	Ho	3	3088819	0.98	3040000	101.6	30 - 120	
175	Lu	3	3366781	0.36	3395000	99.2	30 - 120	
209	Bi	3	7090975	1.03	7067000	100.3	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052810B.B\008CALS.D\008CALS.D#
Date Acquired: May 28 2010 11:27 am
Acq. Method: 0NEW_ALL.M
Sample Name: **STD2**
Vial Number: 1304
Misc Info: Hg(0.05PPB),Al(10PPB),Na(100PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

Sample Type: CalStd

QC&ISTD Elements

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	7160.4	P	225.10	3.14
60	Ni	45	2	1366.8	P	160.40	11.74
63	Cu	45	2	3447.3	P	155.40	4.51
66	Zn	45	2	926.7	P	176.20	19.01
78	Se	74	2	76.7	P	25.17	32.83

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6895765	0.66	6852000	100.6	30 - 120	
45	Sc	1	245138	1.39	249000	98.4	30 - 120	
45	Sc	2	275890	0.87	274900	100.4	30 - 120	
74	Ge	1	196554	1.21	197500	99.5	30 - 120	
74	Ge	2	434959	0.96	437500	99.4	30 - 120	
74	Ge	3	1775681	0.79	1769000	100.4	30 - 120	
103	Rh	2	844781	1.31	847200	99.7	30 - 120	
103	Rh	3	1584013	0.30	1574000	100.6	30 - 120	
165	Ho	3	3107365	0.50	3040000	102.2	30 - 120	
175	Lu	3	3375344	1.48	3395000	99.4	30 - 120	
209	Bi	3	7060410	0.98	7067000	99.9	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052810B.B\009CALS.D\009CALS.D#
Date Acquired: May 28 2010 11:33 am
Acq. Method: 0NEW_ALL.M
Sample Name: **STD3**
Vial Number: 1303
Misc Info: Hg(0.5PPB),Al(100PPB),Na(1,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

Sample Type: CalStd

QC&ISTD Elements

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	71369.7	P	1202.00	1.68
60	Ni	45	2	12690.3	P	258.40	2.04
63	Cu	45	2	32338.9	P	448.70	1.39
66	Zn	45	2	7049.0	P	272.30	3.86
78	Se	74	2	476.7	P	55.08	11.55

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6794858	2.53	6852000	99.2	30 - 120	
45	Sc	1	250509	2.19	249000	100.6	30 - 120	
45	Sc	2	274178	1.52	274900	99.7	30 - 120	
74	Ge	1	198683	2.01	197500	100.6	30 - 120	
74	Ge	2	433201	1.45	437500	99.0	30 - 120	
74	Ge	3	1766602	0.77	1769000	99.9	30 - 120	
103	Rh	2	829361	1.64	847200	97.9	30 - 120	
103	Rh	3	1582137	1.38	1574000	100.5	30 - 120	
165	Ho	3	3087559	0.77	3040000	101.6	30 - 120	
175	Lu	3	3331358	0.64	3395000	98.1	30 - 120	
209	Bi	3	6963714	0.30	7067000	98.5	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052810B.B\010CALS.D\010CALS.D#
Date Acquired: May 28 2010 11:39 am
Acq. Method: 0NEW_ALL.M
Sample Name: **STD4**
Vial Number: 1302
Misc Info: Hg(2.5PPB),Al(500PPB),Na(5,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

Sample Type: CalStd

QC&ISTD Elements

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	346348.1	P	16500.00	4.76
60	Ni	45	2	61075.0	P	1138.00	1.86
63	Cu	45	2	156975.3	P	1226.00	0.78
66	Zn	45	2	35297.0	P	554.70	1.57
78	Se	74	2	2217.0	P	212.00	9.56

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6673638	0.63	6852000	97.4	30 - 120	
45	Sc	1	245279	2.03	249000	98.5	30 - 120	
45	Sc	2	271267	1.17	274900	98.7	30 - 120	
74	Ge	1	193857	1.78	197500	98.2	30 - 120	
74	Ge	2	427888	0.73	437500	97.8	30 - 120	
74	Ge	3	1798443	0.49	1769000	101.7	30 - 120	
103	Rh	2	809438	0.83	847200	95.5	30 - 120	
103	Rh	3	1554723	0.87	1574000	98.8	30 - 120	
165	Ho	3	3065318	0.37	3040000	100.8	30 - 120	
175	Lu	3	3344053	1.27	3395000	98.5	30 - 120	
209	Bi	3	6863626	0.95	7067000	97.1	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052810B.B\011CALS.D\011CALS.D#
Date Acquired: May 28 2010 11:46 am
Acq. Method: 0NEW_ALL.M
Sample Name: **STD5**
Vial Number: 1301
Misc Info: Hg(5PPB) Al(1,000PPB)Na(10,000PPB)
Operator: FCW ICP-MS ID#SEA44
Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	icpchem\1\7500\h2.u
2	icpchem\1\7500\he.u
3	chem\1\7500\nogas.u

Sample Type: CalStd

QC&ISTD Elements

Element		IS	T#	CPS Mean		SD	RSD(%)
9	Be	6	3	723496.6	P	2488.00	0.34
60	Ni	45	2	118655.4	P	1609.00	1.36
63	Cu	45	2	306024.0	P	2054.00	0.67
66	Zn	45	2	67783.0	P	253.80	0.37
78	Se	74	2	4330.9	P	55.71	1.29

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6866433	0.65	6852000	100.2	30 - 120	
45	Sc	1	231537	0.44	249000	93.0	30 - 120	
45	Sc	2	272793	1.54	274900	99.2	30 - 120	
74	Ge	1	180315	2.06	197500	91.3	30 - 120	
74	Ge	2	428523	0.34	437500	97.9	30 - 120	
74	Ge	3	1816075	1.65	1769000	102.7	30 - 120	
103	Rh	2	794771	0.34	847200	93.8	30 - 120	
103	Rh	3	1554143	1.48	1574000	98.7	30 - 120	
165	Ho	3	3062756	1.70	3040000	100.7	30 - 120	
175	Lu	3	3342256	1.16	3395000	98.4	30 - 120	
209	Bi	3	6753547	1.57	7067000	95.6	30 - 120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **:Max. Number of Failures Allowed**

0 :ISTD Failures **:Max. Number of ISTD Failures Allowed**

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\013SMPL.D\013SMPL.D#
Date Acquired: May 28 2010 11:58 am Acq. Method: 0NEW_ALL.M
Sample Name: ICV Vial Number: 1105
Misc Info: Hg(2 PPB),Al(400 PPB),Na(4,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**39.460**	ug/l	39.46	4.9	450	6	P	
60	**Ni**	2	**40.340**	ug/l	40.34	2.2	15000	45	P	
63	**Cu**	2	**40.690**	ug/l	40.69	1.7	15000	45	P	
66	**Zn**	2	**40.130**	ug/l	40.13	1.4	15000	45	P	
78	**Se**	2	**39.960**	ug/l	39.96	4.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6754635	1.61	6852000	**98.6**	30	-	120	
45	Sc	1	222657	0.80	249000	**89.4**	30	-	120	
45	Sc	2	275191	1.60	274900	**100.1**	30	-	120	
74	Ge	1	174957	0.53	197500	**88.6**	30	-	120	
74	Ge	2	432739	0.70	437500	**98.9**	30	-	120	
74	Ge	3	1786468	1.56	1769000	**101.0**	30	-	120	
103	Rh	2	818110	1.37	847200	**96.6**	30	-	120	
103	Rh	3	1564471	0.68	1574000	**99.4**	30	-	120	
165	Ho	3	3095713	0.50	3040000	**101.8**	30	-	120	
175	Lu	3	3388224	0.28	3395000	**99.8**	30	-	120	
209	Bi	3	6918586	0.19	7067000	**97.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\014SMPL.D\014SMPL.D#
Date Acquired: May 28 2010 12:04 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.017**	ug/l	0.02	19.7	450	6	P	
60	**Ni**	2	**-0.025**	ug/l	-0.02	51.5	15000	45	P	
63	**Cu**	2	**0.035**	ug/l	0.03	21.6	15000	45	P	
66	**Zn**	2	**0.253**	ug/l	0.25	11.9	15000	45	P	
78	**Se**	2	**-0.154**	ug/l	-0.15	224.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6710438	2.28	6852000	**97.9**	30	-	120	
45	Sc	1	229823	0.99	249000	**92.3**	30	-	120	
45	Sc	2	274759	0.27	274900	**99.9**	30	-	120	
74	Ge	1	179364	0.92	197500	**90.8**	30	-	120	
74	Ge	2	439683	0.59	437500	**100.5**	30	-	120	
74	Ge	3	1760039	0.30	1769000	**99.5**	30	-	120	
103	Rh	2	846512	1.67	847200	**99.9**	30	-	120	
103	Rh	3	1575281	1.34	1574000	**100.1**	30	-	120	
165	Ho	3	3067347	0.30	3040000	**100.9**	30	-	120	
175	Lu	3	3357275	1.26	3395000	**98.9**	30	-	120	
209	Bi	3	7108015	0.47	7067000	**100.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\016SMPL.D\016SMPL.D#
Date Acquired: May 28 2010 12:16 pm Acq. Method: 0NEW_ALL.M
Sample Name: CRI (2 PPB) (RL) Vial Number: 1107
Misc Info: Hg(0.1 PPB),Al(20 PPB),Na(200 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.000**	ug/l	2.00	4.9	450	6	P	
60	**Ni**	2	**2.020**	ug/l	2.02	5.3	15000	45	P	
63	**Cu**	2	**2.160**	ug/l	2.16	4.2	15000	45	P	
66	**Zn**	2	**2.134**	ug/l	2.13	10.5	15000	45	P	
78	**Se**	2	**1.896**	ug/l	1.90	8.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6725151	1.09	6852000	**98.1**	30	-	120	
45	Sc	1	227520	2.10	249000	**91.4**	30	-	120	
45	Sc	2	277942	1.19	274900	**101.1**	30	-	120	
74	Ge	1	177264	1.73	197500	**89.8**	30	-	120	
74	Ge	2	437155	1.40	437500	**99.9**	30	-	120	
74	Ge	3	1756703	1.41	1769000	**99.3**	30	-	120	
103	Rh	2	842834	0.40	847200	**99.5**	30	-	120	
103	Rh	3	1577394	0.54	1574000	**100.2**	30	-	120	
165	Ho	3	3095463	0.43	3040000	**101.8**	30	-	120	
175	Lu	3	3361092	0.79	3395000	**99.0**	30	-	120	
209	Bi	3	7093296	0.33	7067000	**100.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\017SMPL.D\017SMPL.D#
Date Acquired: May 28 2010 12:23 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICSA Vial Number: 1101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.01	29.9	450	6	P	
60	**Ni**	2	**2.629**	ug/l	2.63	8.1	15000	45	P	
63	**Cu**	2	**3.738**	ug/l	3.74	4.1	15000	45	P	
66	**Zn**	2	**3.385**	ug/l	3.39	10.1	15000	45	P	
78	**Se**	2	**0.176**	ug/l	0.18	87.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6017988	0.42	6852000	**87.8**	30	-	120	
45	Sc	1	199488	1.36	249000	**80.1**	30	-	120	
45	Sc	2	259394	0.95	274900	**94.4**	30	-	120	
74	Ge	1	144301	1.50	197500	**73.1**	30	-	120	
74	Ge	2	390851	1.74	437500	**89.3**	30	-	120	
74	Ge	3	1628055	0.27	1769000	**92.0**	30	-	120	
103	Rh	2	667290	1.66	847200	**78.8**	30	-	120	
103	Rh	3	1284552	2.77	1574000	**81.6**	30	-	120	
165	Ho	3	2767640	0.58	3040000	**91.0**	30	-	120	
175	Lu	3	3013887	0.24	3395000	**88.8**	30	-	120	
209	Bi	3	5594120	0.11	7067000	**79.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\018SMPL.D\018SMPL.D#
Date Acquired: May 28 2010 12:29 pm Acq. Method: 0NEW_ALL.M
Sample Name: ICSAB Vial Number: 1102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.00	75.2	450	6	P	
60	**Ni**	2	**194.300**	ug/l	194.30	1.0	15000	45	P	
63	**Cu**	2	**189.700**	ug/l	189.70	0.7	15000	45	P	
66	**Zn**	2	**95.330**	ug/l	95.33	1.8	15000	45	P	
78	**Se**	2	**104.700**	ug/l	104.70	7.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5964549	1.00	6852000	**87.0**	30	-	120	
45	Sc	1	185411	1.03	249000	**74.5**	30	-	120	
45	Sc	2	248678	1.22	274900	**90.5**	30	-	120	
74	Ge	1	132634	1.38	197500	**67.2**	30	-	120	
74	Ge	2	374204	1.68	437500	**85.5**	30	-	120	
74	Ge	3	1588016	0.33	1769000	**89.8**	30	-	120	
103	Rh	2	650980	1.22	847200	**76.8**	30	-	120	
103	Rh	3	1278726	1.85	1574000	**81.2**	30	-	120	
165	Ho	3	2721201	0.61	3040000	**89.5**	30	-	120	
175	Lu	3	2958721	1.10	3395000	**87.1**	30	-	120	
209	Bi	3	5512896	0.35	7067000	**78.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\022SMPL.D\022SMPL.D#
Date Acquired: May 28 2010 12:53 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**50.310**	ug/l	50.31	1.0	450	6	P	
60	**Ni**	2	**51.730**	ug/l	51.73	1.7	15000	45	P	
63	**Cu**	2	**51.420**	ug/l	51.42	1.8	15000	45	P	
66	**Zn**	2	**50.780**	ug/l	50.78	1.3	15000	45	P	
78	**Se**	2	**50.470**	ug/l	50.47	3.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6729200	0.74	6852000	**98.2**	30	-	120	
45	Sc	1	234173	1.22	249000	**94.0**	30	-	120	
45	Sc	2	268346	0.45	274900	**97.6**	30	-	120	
74	Ge	1	182672	1.16	197500	**92.5**	30	-	120	
74	Ge	2	422032	1.19	437500	**96.5**	30	-	120	
74	Ge	3	1767132	0.23	1769000	**99.9**	30	-	120	
103	Rh	2	799987	0.73	847200	**94.4**	30	-	120	
103	Rh	3	1517479	0.29	1574000	**96.4**	30	-	120	
165	Ho	3	3056413	1.52	3040000	**100.5**	30	-	120	
175	Lu	3	3343152	0.31	3395000	**98.5**	30	-	120	
209	Bi	3	6688653	0.09	7067000	**94.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\023SMPL.D\023SMPL.D#
Date Acquired: May 28 2010 12:59 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.017**	ug/l	0.02	32.8	450	6	P	
60	**Ni**	2	**-0.020**	ug/l	-0.02	107.9	15000	45	P	
63	**Cu**	2	**0.036**	ug/l	0.04	34.3	15000	45	P	
66	**Zn**	2	**0.298**	ug/l	0.30	38.0	15000	45	P	
78	**Se**	2	**0.969**	ug/l	0.97	51.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6857350	3.63	6852000	**100.1**	30	-	120	
45	Sc	1	229013	1.97	249000	**92.0**	30	-	120	
45	Sc	2	268553	1.03	274900	**97.7**	30	-	120	
74	Ge	1	179280	1.41	197500	**90.8**	30	-	120	
74	Ge	2	422625	1.58	437500	**96.6**	30	-	120	
74	Ge	3	1732039	1.85	1769000	**97.9**	30	-	120	
103	Rh	2	822887	0.77	847200	**97.1**	30	-	120	
103	Rh	3	1562786	1.19	1574000	**99.3**	30	-	120	
165	Ho	3	3020054	1.29	3040000	**99.3**	30	-	120	
175	Lu	3	3307714	0.98	3395000	**97.4**	30	-	120	
209	Bi	3	6943521	1.43	7067000	**98.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\024SMPL.D\024SMPL.D#
Date Acquired: May 28 2010 01:05 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64447/21-A Vial Number: 2101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.011**	ug/l	0.11	76.9	450	6	P	
60	**Ni**	2	**-0.020**	ug/l	-0.20	183.0	15000	45	P	
63	**Cu**	2	**0.014**	ug/l	0.14	98.8	15000	45	P	
66	**Zn**	2	**0.081**	ug/l	0.81	126.6	15000	45	P	
78	**Se**	2	**-0.290**	ug/l	-2.90	78.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6657581	0.89	6852000	**97.2**	30	-	120	
45	Sc	1	231349	1.20	249000	**92.9**	30	-	120	
45	Sc	2	267565	1.03	274900	**97.3**	30	-	120	
74	Ge	1	180960	0.31	197500	**91.6**	30	-	120	
74	Ge	2	424470	2.09	437500	**97.0**	30	-	120	
74	Ge	3	1746968	0.52	1769000	**98.8**	30	-	120	
103	Rh	2	816622	1.21	847200	**96.4**	30	-	120	
103	Rh	3	1529071	1.02	1574000	**97.1**	30	-	120	
165	Ho	3	3016410	1.11	3040000	**99.2**	30	-	120	
175	Lu	3	3260006	2.01	3395000	**96.0**	30	-	120	
209	Bi	3	6838174	0.43	7067000	**96.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\025SMPL.D\025SMPL.D#
Date Acquired: May 28 2010 01:11 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-E SD Vial Number: 2102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.354**	ug/l	17.70	3.9	450	6	P	
60	**Ni**	2	**122.200**	ug/l	6,110.00	2.0	15000	45	P	
63	**Cu**	2	**21.080**	ug/l	1,054.00	1.9	15000	45	P	
66	**Zn**	2	**35.090**	ug/l	1,754.50	2.7	15000	45	P	
78	**Se**	2	**0.139**	ug/l	6.97	438.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6966793	2.09	6852000	**101.7**	30	-	120	
45	Sc	1	230015	0.97	249000	**92.4**	30	-	120	
45	Sc	2	268071	1.05	274900	**97.5**	30	-	120	
74	Ge	1	175021	0.90	197500	**88.6**	30	-	120	
74	Ge	2	405838	0.72	437500	**92.8**	30	-	120	
74	Ge	3	1727909	1.28	1769000	**97.7**	30	-	120	
103	Rh	2	764375	1.00	847200	**90.2**	30	-	120	
103	Rh	3	1490686	0.61	1574000	**94.7**	30	-	120	
165	Ho	3	2946037	0.04	3040000	**96.9**	30	-	120	
175	Lu	3	3176265	0.77	3395000	**93.6**	30	-	120	
209	Bi	3	6528461	0.75	7067000	**92.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\026SMPL.D\026SMPL.D#
Date Acquired: May 28 2010 01:17 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-E Vial Number: 2103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.717**	ug/l	17.17	0.6	450	6	P	
60	**Ni**	2	**522.300**	ug/l	5,223.00	1.3	15000	45	P	
63	**Cu**	2	**91.480**	ug/l	914.80	1.9	15000	45	P	
66	**Zn**	2	**147.200**	ug/l	1,472.00	1.0	15000	45	P	
78	**Se**	2	**1.569**	ug/l	15.69	22.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6599182	1.53	6852000	**96.3**	30	-	120	
45	Sc	1	217427	1.13	249000	**87.3**	30	-	120	
45	Sc	2	289629	0.82	274900	**105.4**	30	-	120	
74	Ge	1	147199	2.13	197500	**74.5**	30	-	120	
74	Ge	2	398291	1.91	437500	**91.0**	30	-	120	
74	Ge	3	1715468	1.15	1769000	**97.0**	30	-	120	
103	Rh	2	739367	1.90	847200	**87.3**	30	-	120	
103	Rh	3	1424431	0.84	1574000	**90.5**	30	-	120	
165	Ho	3	2960878	0.85	3040000	**97.4**	30	-	120	
175	Lu	3	3179272	0.55	3395000	**93.6**	30	-	120	
209	Bi	3	6159990	0.99	7067000	**87.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\027SMPL.D\027SMPL.D#
Date Acquired: May 28 2010 01:23 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-F DU Vial Number: 2104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.683**	ug/l	16.83	4.6	450	6	P	
60	**Ni**	2	**524.800**	ug/l	5,248.00	1.2	15000	45	P	
63	**Cu**	2	**91.200**	ug/l	912.00	1.4	15000	45	P	
66	**Zn**	2	**145.400**	ug/l	1,454.00	2.3	15000	45	P	
78	**Se**	2	**1.454**	ug/l	14.54	29.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6776124	2.18	6852000	**98.9**	30	-	120	
45	Sc	1	193544	1.10	249000	**77.7**	30	-	120	
45	Sc	2	291665	0.73	274900	**106.1**	30	-	120	
74	Ge	1	129525	1.31	197500	**65.6**	30	-	120	
74	Ge	2	404374	1.58	437500	**92.4**	30	-	120	
74	Ge	3	1704393	0.35	1769000	**96.3**	30	-	120	
103	Rh	2	741591	1.55	847200	**87.5**	30	-	120	
103	Rh	3	1440385	1.43	1574000	**91.5**	30	-	120	
165	Ho	3	2957843	1.03	3040000	**97.3**	30	-	120	
175	Lu	3	3186019	1.63	3395000	**93.8**	30	-	120	
209	Bi	3	6191694	0.59	7067000	**87.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\028SMPL.D\028SMPL.D#
Date Acquired: May 28 2010 01:29 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-G MS Vial Number: 2105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.183**	ug/l	109.15	0.8	450	6	P	
60	**Ni**	2	**121.600**	ug/l	6,080.00	0.5	15000	45	P	
63	**Cu**	2	**27.750**	ug/l	1,387.50	0.9	15000	45	P	
66	**Zn**	2	**46.530**	ug/l	2,326.50	1.0	15000	45	P	
78	**Se**	2	**80.960**	ug/l	4,048.00	3.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7379795	0.18	6852000	**107.7**	30	-	120	
45	Sc	1	166999	0.84	249000	**67.1**	30	-	120	
45	Sc	2	278985	0.64	274900	**101.5**	30	-	120	
74	Ge	1	125242	0.43	197500	**63.4**	30	-	120	
74	Ge	2	421049	0.76	437500	**96.2**	30	-	120	
74	Ge	3	1825379	1.10	1769000	**103.2**	30	-	120	
103	Rh	2	788028	2.17	847200	**93.0**	30	-	120	
103	Rh	3	1563755	0.56	1574000	**99.3**	30	-	120	
165	Ho	3	3024895	0.87	3040000	**99.5**	30	-	120	
175	Lu	3	3282350	0.72	3395000	**96.7**	30	-	120	
209	Bi	3	6612966	0.32	7067000	**93.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\029SMPL.D\029SMPL.D#
Date Acquired: May 28 2010 01:36 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-H MSD Vial Number: 2106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.271**	ug/l	113.55	0.4	450	6	P	
60	**Ni**	2	**126.700**	ug/l	6,335.00	1.3	15000	45	P	
63	**Cu**	2	**28.700**	ug/l	1,435.00	1.1	15000	45	P	
66	**Zn**	2	**47.980**	ug/l	2,399.00	1.3	15000	45	P	
78	**Se**	2	**78.360**	ug/l	3,918.00	6.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7252187	0.45	6852000	**105.8**	30	-	120	
45	Sc	1	166530	1.53	249000	**66.9**	30	-	120	
45	Sc	2	273942	1.18	274900	**99.7**	30	-	120	
74	Ge	1	124102	0.94	197500	**62.8**	30	-	120	
74	Ge	2	418001	1.80	437500	**95.5**	30	-	120	
74	Ge	3	1808947	0.36	1769000	**102.3**	30	-	120	
103	Rh	2	774739	1.53	847200	**91.4**	30	-	120	
103	Rh	3	1529539	0.52	1574000	**97.2**	30	-	120	
165	Ho	3	2990470	0.78	3040000	**98.4**	30	-	120	
175	Lu	3	3237682	0.38	3395000	**95.4**	30	-	120	
209	Bi	3	6569840	0.90	7067000	**93.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\030SMPL.D\030SMPL.D#
Date Acquired: May 28 2010 01:42 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-1-E PDS Vial Number: 2107
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.249**	ug/l	112.45	2.4	450	6	P	
60	**Ni**	2	**126.000**	ug/l	6,300.00	1.2	15000	45	P	
63	**Cu**	2	**28.210**	ug/l	1,410.50	1.8	15000	45	P	
66	**Zn**	2	**48.910**	ug/l	2,445.50	1.8	15000	45	P	
78	**Se**	2	**81.080**	ug/l	4,054.00	7.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7386729	1.34	6852000	**107.8**	30	-	120	
45	Sc	1	158853	2.42	249000	**63.8**	30	-	120	
45	Sc	2	273995	0.20	274900	**99.7**	30	-	120	
74	Ge	1	117227	1.67	197500	**59.4**	30	-	120	
74	Ge	2	418005	1.72	437500	**95.5**	30	-	120	
74	Ge	3	1794306	0.98	1769000	**101.4**	30	-	120	
103	Rh	2	783523	1.15	847200	**92.5**	30	-	120	
103	Rh	3	1536877	1.19	1574000	**97.6**	30	-	120	
165	Ho	3	3007922	0.36	3040000	**98.9**	30	-	120	
175	Lu	3	3247255	0.43	3395000	**95.6**	30	-	120	
209	Bi	3	6522480	0.39	7067000	**92.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\031SMPL.D\031SMPL.D#
Date Acquired: May 28 2010 01:48 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64447/22-A Vial Number: 2108
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.878**	ug/l	93.90	8.8	450	6	P	
60	**Ni**	2	**20.210**	ug/l	1,010.50	5.1	15000	45	P	
63	**Cu**	2	**10.120**	ug/l	506.00	3.8	15000	45	P	
66	**Zn**	2	**19.820**	ug/l	991.00	3.1	15000	45	P	
78	**Se**	2	**82.630**	ug/l	4,131.50	8.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7052535	1.51	6852000	**102.9**	30	-	120	
45	Sc	1	142963	1.00	249000	**57.4**	30	-	120	
45	Sc	2	270414	1.87	274900	**98.4**	30	-	120	
74	Ge	1	108186	0.65	197500	**54.8**	30	-	120	
74	Ge	2	418357	1.15	437500	**95.6**	30	-	120	
74	Ge	3	1754124	0.81	1769000	**99.2**	30	-	120	
103	Rh	2	807834	1.09	847200	**95.4**	30	-	120	
103	Rh	3	1544293	1.25	1574000	**98.1**	30	-	120	
165	Ho	3	3012853	0.19	3040000	**99.1**	30	-	120	
175	Lu	3	3245673	0.94	3395000	**95.6**	30	-	120	
209	Bi	3	6773725	1.09	7067000	**95.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\032SMPL.D\032SMPL.D#
Date Acquired: May 28 2010 01:54 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64447/23-A Vial Number: 2109
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.830**	ug/l	91.50	4.5	450	6	P	
60	**Ni**	2	**19.760**	ug/l	988.00	3.7	15000	45	P	
63	**Cu**	2	**10.340**	ug/l	517.00	1.4	15000	45	P	
66	**Zn**	2	**19.830**	ug/l	991.50	3.1	15000	45	P	
78	**Se**	2	**80.180**	ug/l	4,009.00	4.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7079347	1.06	6852000	**103.3**	30	-	120	
45	Sc	1	133396	1.32	249000	**53.6**	30	-	120	
45	Sc	2	273415	0.81	274900	**99.5**	30	-	120	
74	Ge	1	97905	1.64	197500	**49.6**	30	-	120	
74	Ge	2	425652	1.19	437500	**97.3**	30	-	120	
74	Ge	3	1795484	1.32	1769000	**101.5**	30	-	120	
103	Rh	2	816832	0.45	847200	**96.4**	30	-	120	
103	Rh	3	1583804	0.36	1574000	**100.6**	30	-	120	
165	Ho	3	3025122	0.44	3040000	**99.5**	30	-	120	
175	Lu	3	3346912	0.60	3395000	**98.6**	30	-	120	
209	Bi	3	6871730	0.02	7067000	**97.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\033SMPL.D\033SMPL.D#
Date Acquired: May 28 2010 02:00 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64447/24-A Vial Number: 2110
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**86.600**	ug/l	1,732.00	5.0	450	6	P	
60	**Ni**	2	**99.350**	ug/l	1,987.00	1.4	15000	45	P	
63	**Cu**	2	**38.060**	ug/l	761.20	0.5	15000	45	P	
66	**Zn**	2	**195.100**	ug/l	3,902.00	0.6	15000	45	P	
78	**Se**	2	**86.900**	ug/l	1,738.00	2.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7281791	2.55	6852000	**106.3**	30	-	120	
45	Sc	1	124793	0.50	249000	**50.1**	30	-	120	
45	Sc	2	275406	0.86	274900	**100.2**	30	-	120	
74	Ge	1	92488	2.06	197500	**46.8**	30	-	120	
74	Ge	2	421321	1.32	437500	**96.3**	30	-	120	
74	Ge	3	1797557	1.77	1769000	**101.6**	30	-	120	
103	Rh	2	803499	1.22	847200	**94.8**	30	-	120	
103	Rh	3	1562024	1.60	1574000	**99.2**	30	-	120	
165	Ho	3	3080494	0.36	3040000	**101.3**	30	-	120	
175	Lu	3	3345973	1.21	3395000	**98.6**	30	-	120	
209	Bi	3	6756613	1.17	7067000	**95.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\034SMPL.D\034SMPL.D#
Date Acquired: May 28 2010 02:06 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.630**	ug/l	49.63	0.5	450	6	P	
60	**Ni**	2	**50.070**	ug/l	50.07	0.2	15000	45	P	
63	**Cu**	2	**50.450**	ug/l	50.45	0.8	15000	45	P	
66	**Zn**	2	**49.060**	ug/l	49.06	3.6	15000	45	P	
78	**Se**	2	**54.330**	ug/l	54.33	7.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7304887	0.77	6852000	**106.6**	30	-	120	
45	Sc	1	116646	1.03	249000	**46.8**	30	-	120	
45	Sc	2	276922	0.18	274900	**100.7**	30	-	120	
74	Ge	1	86751	1.84	197500	**43.9**	30	-	120	
74	Ge	2	428960	1.22	437500	**98.0**	30	-	120	
74	Ge	3	1862062	0.84	1769000	**105.3**	30	-	120	
103	Rh	2	805275	0.85	847200	**95.1**	30	-	120	
103	Rh	3	1596588	1.05	1574000	**101.4**	30	-	120	
165	Ho	3	3070905	1.27	3040000	**101.0**	30	-	120	
175	Lu	3	3328380	0.60	3395000	**98.0**	30	-	120	
209	Bi	3	6829311	0.91	7067000	**96.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\035SMPL.D\035SMPL.D#
Date Acquired: May 28 2010 02:12 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.023**	ug/l	0.02	30.2	450	6	P	
60	**Ni**	2	**0.041**	ug/l	0.04	106.3	15000	45	P	
63	**Cu**	2	**0.046**	ug/l	0.05	3.9	15000	45	P	
66	**Zn**	2	**0.247**	ug/l	0.25	23.8	15000	45	P	
78	**Se**	2	**-0.235**	ug/l	-0.24	304.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7330039	0.45	6852000	**107.0**	30	-	120	
45	Sc	1	114792	1.01	249000	**46.1**	30	-	120	
45	Sc	2	280532	1.35	274900	**102.0**	30	-	120	
74	Ge	1	86556	0.74	197500	**43.8**	30	-	120	
74	Ge	2	443582	0.29	437500	**101.4**	30	-	120	
74	Ge	3	1829810	0.65	1769000	**103.4**	30	-	120	
103	Rh	2	849273	1.33	847200	**100.2**	30	-	120	
103	Rh	3	1638973	1.12	1574000	**104.1**	30	-	120	
165	Ho	3	3137499	1.42	3040000	**103.2**	30	-	120	
175	Lu	3	3349899	1.23	3395000	**98.7**	30	-	120	
209	Bi	3	7051860	1.11	7067000	**99.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\036SMPL.D\036SMPL.D#
Date Acquired: May 28 2010 02:18 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-2-B Vial Number: 2201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.171**	ug/l	11.71	2.3	450	6	P	
60	**Ni**	2	**703.000**	ug/l	7,030.00	1.2	15000	45	P	
63	**Cu**	2	**52.670**	ug/l	526.70	0.2	15000	45	P	
66	**Zn**	2	**110.500**	ug/l	1,105.00	0.3	15000	45	P	
78	**Se**	2	**0.674**	ug/l	6.74	108.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6795932	1.51	6852000	**99.2**	30	-	120	
45	Sc	1	107180	1.23	249000	**43.0**	30	-	120	
45	Sc	2	292471	0.77	274900	**106.4**	30	-	120	
74	Ge	1	72292	0.23	197500	**36.6**	30	-	120	
74	Ge	2	417726	1.48	437500	**95.5**	30	-	120	
74	Ge	3	1762750	1.03	1769000	**99.6**	30	-	120	
103	Rh	2	781111	1.96	847200	**92.2**	30	-	120	
103	Rh	3	1486366	0.82	1574000	**94.4**	30	-	120	
165	Ho	3	3026684	1.05	3040000	**99.6**	30	-	120	
175	Lu	3	3311098	1.80	3395000	**97.5**	30	-	120	
209	Bi	3	6378820	1.02	7067000	**90.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\037SMPL.D\037SMPL.D#
Date Acquired: May 28 2010 02:24 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-3-B Vial Number: 2202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.263**	ug/l	12.63	2.6	450	6	P	
60	**Ni**	2	**998.800**	ug/l	9,988.00	1.3	15000	45	A	
63	**Cu**	2	**73.010**	ug/l	730.10	2.0	15000	45	P	
66	**Zn**	2	**129.200**	ug/l	1,292.00	0.1	15000	45	P	
78	**Se**	2	**1.744**	ug/l	17.44	30.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6704373	0.40	6852000	**97.8**	30	-	120	
45	Sc	1	109637	1.04	249000	**44.0**	30	-	120	
45	Sc	2	293864	0.48	274900	**106.9**	30	-	120	
74	Ge	1	70469	2.03	197500	**35.7**	30	-	120	
74	Ge	2	410981	1.01	437500	**93.9**	30	-	120	
74	Ge	3	1778560	1.02	1769000	**100.5**	30	-	120	
103	Rh	2	759321	1.57	847200	**89.6**	30	-	120	
103	Rh	3	1495136	0.53	1574000	**95.0**	30	-	120	
165	Ho	3	3060137	0.36	3040000	**100.7**	30	-	120	
175	Lu	3	3327531	1.01	3395000	**98.0**	30	-	120	
209	Bi	3	6339293	0.28	7067000	**89.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\038SMPL.D\038SMPL.D#
Date Acquired: May 28 2010 02:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-4-B Vial Number: 2203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.171**	ug/l	11.71	0.2	450	6	P	
60	**Ni**	2	**1111.000**	ug/l	11,110.00	1.2	15000	45	A	
63	**Cu**	2	**150.300**	ug/l	1,503.00	0.9	15000	45	P	
66	**Zn**	2	**157.500**	ug/l	1,575.00	1.5	15000	45	P	
78	**Se**	2	**1.272**	ug/l	12.72	30.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6645485	1.67	6852000	**97.0**	30	-	120	
45	Sc	1	104185	2.38	249000	**41.8**	30	-	120	
45	Sc	2	305327	0.25	274900	**111.1**	30	-	120	
74	Ge	1	63190	0.97	197500	**32.0**	30	-	120	
74	Ge	2	408468	1.04	437500	**93.4**	30	-	120	
74	Ge	3	1729912	1.33	1769000	**97.8**	30	-	120	
103	Rh	2	757563	0.99	847200	**89.4**	30	-	120	
103	Rh	3	1486144	1.32	1574000	**94.4**	30	-	120	
165	Ho	3	3011144	1.44	3040000	**99.1**	30	-	120	
175	Lu	3	3286305	1.37	3395000	**96.8**	30	-	120	
209	Bi	3	6307795	1.29	7067000	**89.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\039SMPL.D\039SMPL.D#
Date Acquired: May 28 2010 02:36 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-5-B Vial Number: 2204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.317**	ug/l	13.17	2.1	450	6	P	
60	**Ni**	2	**923.200**	ug/l	9,232.00	1.2	15000	45	P	
63	**Cu**	2	**84.010**	ug/l	840.10	0.3	15000	45	P	
66	**Zn**	2	**145.400**	ug/l	1,454.00	1.0	15000	45	P	
78	**Se**	2	**0.691**	ug/l	6.91	35.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6797935	0.07	6852000	**99.2**	30	-	120	
45	Sc	1	101325	1.29	249000	**40.7**	30	-	120	
45	Sc	2	296145	1.06	274900	**107.7**	30	-	120	
74	Ge	1	65309	1.55	197500	**33.1**	30	-	120	
74	Ge	2	411930	1.77	437500	**94.2**	30	-	120	
74	Ge	3	1800076	0.31	1769000	**101.8**	30	-	120	
103	Rh	2	761207	0.86	847200	**89.8**	30	-	120	
103	Rh	3	1533205	0.51	1574000	**97.4**	30	-	120	
165	Ho	3	3077517	0.59	3040000	**101.2**	30	-	120	
175	Lu	3	3307495	0.21	3395000	**97.4**	30	-	120	
209	Bi	3	6422904	0.29	7067000	**90.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\040SMPL.D\040SMPL.D#
Date Acquired: May 28 2010 02:42 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-6-B Vial Number: 2205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.221**	ug/l	12.21	2.6	450	6	P	
60	**Ni**	2	**540.300**	ug/l	5,403.00	1.3	15000	45	P	
63	**Cu**	2	**65.430**	ug/l	654.30	1.8	15000	45	P	
66	**Zn**	2	**197.600**	ug/l	1,976.00	0.1	15000	45	P	
78	**Se**	2	**1.200**	ug/l	12.00	58.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7001349	1.32	6852000	**102.2**	30	-	120	
45	Sc	1	89009	0.19	249000	**35.7**	30	-	120	
45	Sc	2	291283	1.58	274900	**106.0**	30	-	120	
74	Ge	1	58508	2.30	197500	**29.6**	30	-	120	**IS Fail**
74	Ge	2	422177	1.35	437500	**96.5**	30	-	120	
74	Ge	3	1819658	1.30	1769000	**102.9**	30	-	120	
103	Rh	2	788737	0.73	847200	**93.1**	30	-	120	
103	Rh	3	1556249	1.37	1574000	**98.9**	30	-	120	
165	Ho	3	3146069	1.24	3040000	**103.5**	30	-	120	
175	Lu	3	3357370	0.21	3395000	**98.9**	30	-	120	
209	Bi	3	6572919	1.58	7067000	**93.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\041SMPL.D\041SMPL.D#
Date Acquired: May 28 2010 02:48 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-7-B Vial Number: 2206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.280**	ug/l	12.80	1.7	450	6	P	
60	**Ni**	2	**800.100**	ug/l	8,001.00	1.1	15000	45	P	
63	**Cu**	2	**83.820**	ug/l	838.20	0.4	15000	45	P	
66	**Zn**	2	**149.000**	ug/l	1,490.00	2.6	15000	45	P	
78	**Se**	2	**1.794**	ug/l	17.94	39.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6796712	1.59	6852000	**99.2**	30	-	120	
45	Sc	1	95300	0.82	249000	**38.3**	30	-	120	
45	Sc	2	281567	1.14	274900	**102.4**	30	-	120	
74	Ge	1	63629	0.84	197500	**32.2**	30	-	120	
74	Ge	2	414828	1.13	437500	**94.8**	30	-	120	
74	Ge	3	1770697	0.57	1769000	**100.1**	30	-	120	
103	Rh	2	763800	1.43	847200	**90.2**	30	-	120	
103	Rh	3	1513272	0.87	1574000	**96.1**	30	-	120	
165	Ho	3	3065239	0.47	3040000	**100.8**	30	-	120	
175	Lu	3	3298775	0.65	3395000	**97.2**	30	-	120	
209	Bi	3	6396200	0.19	7067000	**90.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\042SMPL.D\042SMPL.D#
Date Acquired: May 28 2010 02:55 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-8-B Vial Number: 2207
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.548**	ug/l	15.48	2.0	450	6	P	
60	**Ni**	2	**970.000**	ug/l	9,700.00	1.2	15000	45	A	
63	**Cu**	2	**104.400**	ug/l	1,044.00	1.0	15000	45	P	
66	**Zn**	2	**168.100**	ug/l	1,681.00	0.8	15000	45	P	
78	**Se**	2	**1.722**	ug/l	17.22	70.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6859719	0.32	6852000	**100.1**	30	-	120	
45	Sc	1	97715	0.79	249000	**39.2**	30	-	120	
45	Sc	2	297435	0.34	274900	**108.2**	30	-	120	
74	Ge	1	62775	1.17	197500	**31.8**	30	-	120	
74	Ge	2	414063	0.75	437500	**94.6**	30	-	120	
74	Ge	3	1810170	0.62	1769000	**102.3**	30	-	120	
103	Rh	2	770505	0.69	847200	**90.9**	30	-	120	
103	Rh	3	1541831	1.08	1574000	**98.0**	30	-	120	
165	Ho	3	3080282	0.69	3040000	**101.3**	30	-	120	
175	Lu	3	3316749	1.47	3395000	**97.7**	30	-	120	
209	Bi	3	6415690	0.37	7067000	**90.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\043SMPL.D\043SMPL.D#
Date Acquired: May 28 2010 03:01 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-9-B Vial Number: 2208
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.014**	ug/l	10.14	2.6	450	6	P	
60	**Ni**	2	**1546.000**	ug/l	15,460.00	0.9	15000	45	A	
63	**Cu**	2	**68.780**	ug/l	687.80	1.6	15000	45	P	
66	**Zn**	2	**125.900**	ug/l	1,259.00	1.0	15000	45	P	
78	**Se**	2	**0.616**	ug/l	6.16	99.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6744613	1.01	6852000	**98.4**	30	-	120	
45	Sc	1	91573	2.27	249000	**36.8**	30	-	120	
45	Sc	2	284316	0.23	274900	**103.4**	30	-	120	
74	Ge	1	59459	2.09	197500	**30.1**	30	-	120	
74	Ge	2	410122	1.50	437500	**93.7**	30	-	120	
74	Ge	3	1772339	1.01	1769000	**100.2**	30	-	120	
103	Rh	2	769504	2.25	847200	**90.8**	30	-	120	
103	Rh	3	1503983	0.42	1574000	**95.6**	30	-	120	
165	Ho	3	2991174	0.73	3040000	**98.4**	30	-	120	
175	Lu	3	3272057	0.39	3395000	**96.4**	30	-	120	
209	Bi	3	6407657	1.02	7067000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\044SMPL.D\044SMPL.D#
Date Acquired: May 28 2010 03:07 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-10-B Vial Number: 2209
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.942**	ug/l	9.42	2.3	450	6	P	
60	**Ni**	2	**1896.000**	ug/l	18,960.00	1.0	15000	45	A	
63	**Cu**	2	**60.210**	ug/l	602.10	1.8	15000	45	P	
66	**Zn**	2	**121.900**	ug/l	1,219.00	2.4	15000	45	P	
78	**Se**	2	**1.565**	ug/l	15.65	49.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6633994	1.70	6852000	**96.8**	30	-	120	
45	Sc	1	90498	2.52	249000	**36.3**	30	-	120	
45	Sc	2	285724	1.03	274900	**103.9**	30	-	120	
74	Ge	1	58726	2.84	197500	**29.7**	30	-	120	**IS Fail**
74	Ge	2	413380	0.85	437500	**94.5**	30	-	120	
74	Ge	3	1819507	1.09	1769000	**102.9**	30	-	120	
103	Rh	2	775361	1.12	847200	**91.5**	30	-	120	
103	Rh	3	1534186	0.60	1574000	**97.5**	30	-	120	
165	Ho	3	3061887	1.57	3040000	**100.7**	30	-	120	
175	Lu	3	3313251	0.95	3395000	**97.6**	30	-	120	
209	Bi	3	6404408	1.00	7067000	**90.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\045SMPL.D\045SMPL.D#
Date Acquired: May 28 2010 03:13 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-11-B Vial Number: 2210
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.858**	ug/l	8.58	2.5	450	6	P	
60	**Ni**	2	**499.800**	ug/l	4,998.00	1.7	15000	45	P	
63	**Cu**	2	**84.050**	ug/l	840.50	0.9	15000	45	P	
66	**Zn**	2	**138.200**	ug/l	1,382.00	1.0	15000	45	P	
78	**Se**	2	**2.926**	ug/l	29.26	31.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6653355	1.27	6852000	**97.1**	30	-	120	
45	Sc	1	99632	1.86	249000	**40.0**	30	-	120	
45	Sc	2	276422	0.96	274900	**100.6**	30	-	120	
74	Ge	1	67623	1.02	197500	**34.2**	30	-	120	
74	Ge	2	405052	0.73	437500	**92.6**	30	-	120	
74	Ge	3	1765316	1.47	1769000	**99.8**	30	-	120	
103	Rh	2	773968	0.53	847200	**91.4**	30	-	120	
103	Rh	3	1510695	0.74	1574000	**96.0**	30	-	120	
165	Ho	3	3067810	1.89	3040000	**100.9**	30	-	120	
175	Lu	3	3329480	0.28	3395000	**98.1**	30	-	120	
209	Bi	3	6562722	0.22	7067000	**92.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\046SMPL.D\046SMPL.D#
Date Acquired: May 28 2010 03:19 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.420**	ug/l	49.42	1.6	450	6	P	
60	**Ni**	2	**52.100**	ug/l	52.10	1.6	15000	45	P	
63	**Cu**	2	**52.360**	ug/l	52.36	0.6	15000	45	P	
66	**Zn**	2	**51.190**	ug/l	51.19	1.2	15000	45	P	
78	**Se**	2	**52.830**	ug/l	52.83	3.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6890963	1.34	6852000	**100.6**	30	-	120	
45	Sc	1	96677	0.40	249000	**38.8**	30	-	120	
45	Sc	2	264538	1.27	274900	**96.2**	30	-	120	
74	Ge	1	71112	1.25	197500	**36.0**	30	-	120	
74	Ge	2	424559	0.14	437500	**97.0**	30	-	120	
74	Ge	3	1838938	0.23	1769000	**104.0**	30	-	120	
103	Rh	2	811114	1.45	847200	**95.7**	30	-	120	
103	Rh	3	1587607	1.98	1574000	**100.9**	30	-	120	
165	Ho	3	3096926	0.59	3040000	**101.9**	30	-	120	
175	Lu	3	3384479	0.57	3395000	**99.7**	30	-	120	
209	Bi	3	6960762	0.73	7067000	**98.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\047SMPL.D\047SMPL.D#
Date Acquired: May 28 2010 03:25 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.018**	ug/l	0.02	20.6	450	6	P	
60	**Ni**	2	**0.160**	ug/l	0.16	15.9	15000	45	P	
63	**Cu**	2	**0.056**	ug/l	0.06	10.4	15000	45	P	
66	**Zn**	2	**0.175**	ug/l	0.18	52.4	15000	45	P	
78	**Se**	2	**0.017**	ug/l	0.02	3475.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6719508	1.84	6852000	**98.1**	30	-	120	
45	Sc	1	102374	0.47	249000	**41.1**	30	-	120	
45	Sc	2	264514	0.89	274900	**96.2**	30	-	120	
74	Ge	1	77350	0.75	197500	**39.2**	30	-	120	
74	Ge	2	427234	1.67	437500	**97.7**	30	-	120	
74	Ge	3	1812443	1.04	1769000	**102.5**	30	-	120	
103	Rh	2	842609	0.98	847200	**99.5**	30	-	120	
103	Rh	3	1593457	1.48	1574000	**101.2**	30	-	120	
165	Ho	3	3090749	1.02	3040000	**101.7**	30	-	120	
175	Lu	3	3401524	1.36	3395000	**100.2**	30	-	120	
209	Bi	3	7119023	2.00	7067000	**100.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\048SMPL.D\048SMPL.D#
Date Acquired: May 28 2010 03:31 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-12-B Vial Number: 2301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.302**	ug/l	13.02	1.7	450	6	P	
60	**Ni**	2	**994.200**	ug/l	9,942.00	0.4	15000	45	P	
63	**Cu**	2	**102.900**	ug/l	1,029.00	0.8	15000	45	P	
66	**Zn**	2	**158.400**	ug/l	1,584.00	1.9	15000	45	P	
78	**Se**	2	**1.258**	ug/l	12.58	38.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6566023	0.46	6852000	**95.8**	30	-	120	
45	Sc	1	107909	0.22	249000	**43.3**	30	-	120	
45	Sc	2	289420	0.94	274900	**105.3**	30	-	120	
74	Ge	1	71381	2.03	197500	**36.1**	30	-	120	
74	Ge	2	410298	1.59	437500	**93.8**	30	-	120	
74	Ge	3	1790011	0.91	1769000	**101.2**	30	-	120	
103	Rh	2	774305	1.93	847200	**91.4**	30	-	120	
103	Rh	3	1541022	1.58	1574000	**97.9**	30	-	120	
165	Ho	3	3120903	0.39	3040000	**102.7**	30	-	120	
175	Lu	3	3353434	0.98	3395000	**98.8**	30	-	120	
209	Bi	3	6620063	0.77	7067000	**93.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\049SMPL.D\049SMPL.D#
Date Acquired: May 28 2010 03:37 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-13-B Vial Number: 2302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.166**	ug/l	11.66	0.6	450	6	P	
60	**Ni**	2	**947.300**	ug/l	9,473.00	1.1	15000	45	P	
63	**Cu**	2	**95.310**	ug/l	953.10	1.7	15000	45	P	
66	**Zn**	2	**165.400**	ug/l	1,654.00	2.0	15000	45	P	
78	**Se**	2	**1.315**	ug/l	13.15	76.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6746423	1.03	6852000	**98.5**	30	-	120	
45	Sc	1	107620	1.27	249000	**43.2**	30	-	120	
45	Sc	2	285000	1.07	274900	**103.7**	30	-	120	
74	Ge	1	71632	0.64	197500	**36.3**	30	-	120	
74	Ge	2	399691	1.00	437500	**91.4**	30	-	120	
74	Ge	3	1779101	0.75	1769000	**100.6**	30	-	120	
103	Rh	2	757031	1.50	847200	**89.4**	30	-	120	
103	Rh	3	1507669	1.55	1574000	**95.8**	30	-	120	
165	Ho	3	3061585	1.15	3040000	**100.7**	30	-	120	
175	Lu	3	3314280	1.26	3395000	**97.6**	30	-	120	
209	Bi	3	6610341	0.08	7067000	**93.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\050SMPL.D\050SMPL.D#
Date Acquired: May 28 2010 03:43 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-14-B Vial Number: 2303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.668**	ug/l	16.68	1.4	450	6	P	
60	**Ni**	2	**1263.000**	ug/l	12,630.00	1.8	15000	45	A	
63	**Cu**	2	**102.200**	ug/l	1,022.00	1.8	15000	45	P	
66	**Zn**	2	**182.800**	ug/l	1,828.00	2.4	15000	45	P	
78	**Se**	2	**1.568**	ug/l	15.68	33.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6606357	1.97	6852000	**96.4**	30	-	120	
45	Sc	1	104151	2.27	249000	**41.8**	30	-	120	
45	Sc	2	285945	2.09	274900	**104.0**	30	-	120	
74	Ge	1	69192	1.65	197500	**35.0**	30	-	120	
74	Ge	2	413609	1.30	437500	**94.5**	30	-	120	
74	Ge	3	1773835	1.14	1769000	**100.3**	30	-	120	
103	Rh	2	788892	1.19	847200	**93.1**	30	-	120	
103	Rh	3	1533931	0.51	1574000	**97.5**	30	-	120	
165	Ho	3	3111669	1.15	3040000	**102.4**	30	-	120	
175	Lu	3	3359214	1.91	3395000	**98.9**	30	-	120	
209	Bi	3	6734450	1.18	7067000	**95.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\051SMPL.D\051SMPL.D#
Date Acquired: May 28 2010 03:49 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-15-B Vial Number: 2304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.860**	ug/l	8.60	1.4	450	6	P	
60	**Ni**	2	**3489.000**	ug/l	34,890.00	1.0	15000	45	A	
63	**Cu**	2	**37.790**	ug/l	377.90	0.9	15000	45	P	
66	**Zn**	2	**110.100**	ug/l	1,101.00	3.0	15000	45	P	
78	**Se**	2	**0.992**	ug/l	9.92	84.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6173455	0.66	6852000	**90.1**	30	-	120	
45	Sc	1	94581	0.42	249000	**38.0**	30	-	120	
45	Sc	2	271435	1.37	274900	**98.7**	30	-	120	
74	Ge	1	63194	0.77	197500	**32.0**	30	-	120	
74	Ge	2	395838	1.41	437500	**90.5**	30	-	120	
74	Ge	3	1704445	0.44	1769000	**96.4**	30	-	120	
103	Rh	2	747966	1.29	847200	**88.3**	30	-	120	
103	Rh	3	1473488	1.51	1574000	**93.6**	30	-	120	
165	Ho	3	3030412	0.66	3040000	**99.7**	30	-	120	
175	Lu	3	3277980	0.85	3395000	**96.6**	30	-	120	
209	Bi	3	6373887	0.22	7067000	**90.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\052SMPL.D\052SMPL.D#
Date Acquired: May 28 2010 03:55 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-16-B Vial Number: 2305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.793**	ug/l	7.93	3.2	450	6	P	
60	**Ni**	2	**2881.000**	ug/l	28,810.00	1.7	15000	45	A	
63	**Cu**	2	**46.910**	ug/l	469.10	2.5	15000	45	P	
66	**Zn**	2	**115.400**	ug/l	1,154.00	1.5	15000	45	P	
78	**Se**	2	**0.519**	ug/l	5.19	51.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5941458	2.16	6852000	**86.7**	30	-	120	
45	Sc	1	98735	1.17	249000	**39.7**	30	-	120	
45	Sc	2	270168	1.17	274900	**98.3**	30	-	120	
74	Ge	1	64397	2.45	197500	**32.6**	30	-	120	
74	Ge	2	389764	0.83	437500	**89.1**	30	-	120	
74	Ge	3	1676727	1.53	1769000	**94.8**	30	-	120	
103	Rh	2	741788	1.71	847200	**87.6**	30	-	120	
103	Rh	3	1436790	0.85	1574000	**91.3**	30	-	120	
165	Ho	3	2986200	0.61	3040000	**98.2**	30	-	120	
175	Lu	3	3247564	0.67	3395000	**95.7**	30	-	120	
209	Bi	3	6331851	1.11	7067000	**89.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\053SMPL.D\053SMPL.D#
Date Acquired: May 28 2010 04:01 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-17-A Vial Number: 2306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.009**	ug/l	10.09	4.9	450	6	P	
60	**Ni**	2	**488.000**	ug/l	4,880.00	0.7	15000	45	P	
63	**Cu**	2	**144.600**	ug/l	1,446.00	0.9	15000	45	P	
66	**Zn**	2	**183.400**	ug/l	1,834.00	1.8	15000	45	P	
78	**Se**	2	**0.947**	ug/l	9.47	173.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6412321	2.25	6852000	**93.6**	30	-	120	
45	Sc	1	98627	1.46	249000	**39.6**	30	-	120	
45	Sc	2	266678	0.30	274900	**97.0**	30	-	120	
74	Ge	1	66736	1.66	197500	**33.8**	30	-	120	
74	Ge	2	389144	0.22	437500	**88.9**	30	-	120	
74	Ge	3	1705475	0.89	1769000	**96.4**	30	-	120	
103	Rh	2	736951	0.45	847200	**87.0**	30	-	120	
103	Rh	3	1470992	1.71	1574000	**93.5**	30	-	120	
165	Ho	3	3063676	0.83	3040000	**100.8**	30	-	120	
175	Lu	3	3309844	0.21	3395000	**97.5**	30	-	120	
209	Bi	3	6500180	0.73	7067000	**92.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\054SMPL.D\054SMPL.D#
Date Acquired: May 28 2010 04:07 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.230**	ug/l	49.23	0.6	450	6	P	
60	**Ni**	2	**52.390**	ug/l	52.39	2.1	15000	45	P	
63	**Cu**	2	**52.290**	ug/l	52.29	2.3	15000	45	P	
66	**Zn**	2	**51.220**	ug/l	51.22	2.7	15000	45	P	
78	**Se**	2	**48.410**	ug/l	48.41	5.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6752163	0.46	6852000	**98.5**	30	-	120	
45	Sc	1	90498	1.65	249000	**36.3**	30	-	120	
45	Sc	2	256232	0.81	274900	**93.2**	30	-	120	
74	Ge	1	68032	2.89	197500	**34.4**	30	-	120	
74	Ge	2	417423	0.95	437500	**95.4**	30	-	120	
74	Ge	3	1799160	0.79	1769000	**101.7**	30	-	120	
103	Rh	2	800645	1.09	847200	**94.5**	30	-	120	
103	Rh	3	1591221	1.41	1574000	**101.1**	30	-	120	
165	Ho	3	3152072	0.36	3040000	**103.7**	30	-	120	
175	Lu	3	3397988	1.10	3395000	**100.1**	30	-	120	
209	Bi	3	6975768	0.37	7067000	**98.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\055SMPL.D\055SMPL.D#
Date Acquired: May 28 2010 04:13 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.015**	ug/l	0.02	18.1	450	6	P	
60	**Ni**	2	**0.153**	ug/l	0.15	34.5	15000	45	P	
63	**Cu**	2	**0.043**	ug/l	0.04	35.2	15000	45	P	
66	**Zn**	2	**0.197**	ug/l	0.20	23.1	15000	45	P	
78	**Se**	2	**-0.057**	ug/l	-0.06	19.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6606218	1.11	6852000	**96.4**	30	-	120	
45	Sc	1	97624	0.38	249000	**39.2**	30	-	120	
45	Sc	2	259689	0.59	274900	**94.5**	30	-	120	
74	Ge	1	72940	0.98	197500	**36.9**	30	-	120	
74	Ge	2	426261	1.57	437500	**97.4**	30	-	120	
74	Ge	3	1783009	0.51	1769000	**100.8**	30	-	120	
103	Rh	2	837284	1.43	847200	**98.8**	30	-	120	
103	Rh	3	1576259	0.99	1574000	**100.1**	30	-	120	
165	Ho	3	3091315	1.39	3040000	**101.7**	30	-	120	
175	Lu	3	3384112	0.39	3395000	**99.7**	30	-	120	
209	Bi	3	7168954	0.48	7067000	**101.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\056SMPL.D\056SMPL.D#
Date Acquired: May 28 2010 04:19 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64514/21-A Vial Number: 2401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.05	37.3	450	6	P	
60	**Ni**	2	**0.083**	ug/l	0.83	73.4	15000	45	P	
63	**Cu**	2	**0.021**	ug/l	0.21	119.7	15000	45	P	
66	**Zn**	2	**-0.002**	ug/l	-0.02	1967.8	15000	45	P	
78	**Se**	2	**0.103**	ug/l	1.03	525.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6646206	1.31	6852000	**97.0**	30	-	120	
45	Sc	1	102744	1.61	249000	**41.3**	30	-	120	
45	Sc	2	259138	1.23	274900	**94.3**	30	-	120	
74	Ge	1	78245	1.50	197500	**39.6**	30	-	120	
74	Ge	2	423736	0.72	437500	**96.9**	30	-	120	
74	Ge	3	1762497	2.39	1769000	**99.6**	30	-	120	
103	Rh	2	835310	1.87	847200	**98.6**	30	-	120	
103	Rh	3	1596012	1.19	1574000	**101.4**	30	-	120	
165	Ho	3	3088502	0.96	3040000	**101.6**	30	-	120	
175	Lu	3	3359153	0.79	3395000	**98.9**	30	-	120	
209	Bi	3	7169218	0.48	7067000	**101.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\057SMPL.D\057SMPL.D#
Date Acquired: May 28 2010 04:25 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-B SD Vial Number: 2402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.044**	ug/l	2.20	14.1	450	6	P	
60	**Ni**	2	**712.100**	ug/l	35,605.00	1.4	15000	45	P	
63	**Cu**	2	**2.216**	ug/l	110.80	2.3	15000	45	P	
66	**Zn**	2	**7.021**	ug/l	351.05	5.6	15000	45	P	
78	**Se**	2	**0.522**	ug/l	26.08	29.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6539684	2.08	6852000	**95.4**	30	-	120	
45	Sc	1	103457	1.24	249000	**41.5**	30	-	120	
45	Sc	2	256025	2.45	274900	**93.1**	30	-	120	
74	Ge	1	77410	0.18	197500	**39.2**	30	-	120	
74	Ge	2	414827	1.58	437500	**94.8**	30	-	120	
74	Ge	3	1733318	0.76	1769000	**98.0**	30	-	120	
103	Rh	2	794445	1.48	847200	**93.8**	30	-	120	
103	Rh	3	1531505	1.45	1574000	**97.3**	30	-	120	
165	Ho	3	3033182	0.32	3040000	**99.8**	30	-	120	
175	Lu	3	3342218	1.83	3395000	**98.4**	30	-	120	
209	Bi	3	6876540	0.71	7067000	**97.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\058SMPL.D\058SMPL.D#
Date Acquired: May 28 2010 04:32 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-B Vial Number: 2403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.199**	ug/l	1.99	1.4	450	6	P	
60	**Ni**	2	**3123.000**	ug/l	31,230.00	0.9	15000	45	A	
63	**Cu**	2	**9.944**	ug/l	99.44	0.8	15000	45	P	
66	**Zn**	2	**32.900**	ug/l	329.00	4.1	15000	45	P	
78	**Se**	2	**0.507**	ug/l	5.07	99.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6144900	0.95	6852000	**89.7**	30	-	120	
45	Sc	1	102663	3.42	249000	**41.2**	30	-	120	
45	Sc	2	255093	0.70	274900	**92.8**	30	-	120	
74	Ge	1	71920	0.22	197500	**36.4**	30	-	120	
74	Ge	2	393131	0.51	437500	**89.9**	30	-	120	
74	Ge	3	1689903	1.00	1769000	**95.5**	30	-	120	
103	Rh	2	748832	1.34	847200	**88.4**	30	-	120	
103	Rh	3	1443973	1.05	1574000	**91.7**	30	-	120	
165	Ho	3	3012791	0.69	3040000	**99.1**	30	-	120	
175	Lu	3	3323215	1.62	3395000	**97.9**	30	-	120	
209	Bi	3	6677450	0.26	7067000	**94.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\059SMPL.D\059SMPL.D#
Date Acquired: May 28 2010 04:38 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-C DU Vial Number: 2404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.193**	ug/l	1.93	4.4	450	6	P	
60	**Ni**	2	**3157.000**	ug/l	31,570.00	1.0	15000	45	A	
63	**Cu**	2	**9.927**	ug/l	99.27	1.2	15000	45	P	
66	**Zn**	2	**33.600**	ug/l	336.00	0.5	15000	45	P	
78	**Se**	2	**0.016**	ug/l	0.16	2857.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6077527	2.69	6852000	**88.7**	30	-	120	
45	Sc	1	103917	1.06	249000	**41.7**	30	-	120	
45	Sc	2	249696	1.88	274900	**90.8**	30	-	120	
74	Ge	1	73979	0.21	197500	**37.5**	30	-	120	
74	Ge	2	386835	1.72	437500	**88.4**	30	-	120	
74	Ge	3	1657916	0.54	1769000	**93.7**	30	-	120	
103	Rh	2	739969	1.30	847200	**87.3**	30	-	120	
103	Rh	3	1430846	0.92	1574000	**90.9**	30	-	120	
165	Ho	3	2952016	0.65	3040000	**97.1**	30	-	120	
175	Lu	3	3224445	0.78	3395000	**95.0**	30	-	120	
209	Bi	3	6576956	1.28	7067000	**93.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\060SMPL.D\060SMPL.D#
Date Acquired: May 28 2010 04:44 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-D MS Vial Number: 2405
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.957**	ug/l	97.85	2.4	450	6	P	
60	**Ni**	2	**637.300**	ug/l	31,865.00	1.1	15000	45	P	
63	**Cu**	2	**12.170**	ug/l	608.50	1.4	15000	45	P	
66	**Zn**	2	**26.130**	ug/l	1,306.50	2.5	15000	45	P	
78	**Se**	2	**77.390**	ug/l	3,869.50	4.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6396548	1.65	6852000	**93.4**	30	-	120	
45	Sc	1	103443	1.21	249000	**41.5**	30	-	120	
45	Sc	2	247042	0.22	274900	**89.9**	30	-	120	
74	Ge	1	77558	0.30	197500	**39.3**	30	-	120	
74	Ge	2	396623	0.76	437500	**90.7**	30	-	120	
74	Ge	3	1710983	0.16	1769000	**96.7**	30	-	120	
103	Rh	2	769772	1.18	847200	**90.9**	30	-	120	
103	Rh	3	1489213	2.09	1574000	**94.6**	30	-	120	
165	Ho	3	3019133	0.48	3040000	**99.3**	30	-	120	
175	Lu	3	3266530	0.30	3395000	**96.2**	30	-	120	
209	Bi	3	6847565	0.32	7067000	**96.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\061SMPL.D\061SMPL.D#
Date Acquired: May 28 2010 04:50 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-E MSD Vial Number: 2406
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.885**	ug/l	94.25	2.4	450	6	P	
60	**Ni**	2	**635.100**	ug/l	31,755.00	0.7	15000	45	P	
63	**Cu**	2	**12.280**	ug/l	614.00	2.0	15000	45	P	
66	**Zn**	2	**25.550**	ug/l	1,277.50	2.2	15000	45	P	
78	**Se**	2	**81.930**	ug/l	4,096.50	4.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6484482	1.59	6852000	**94.6**	30	-	120	
45	Sc	1	107630	2.33	249000	**43.2**	30	-	120	
45	Sc	2	248856	1.76	274900	**90.5**	30	-	120	
74	Ge	1	81197	1.91	197500	**41.1**	30	-	120	
74	Ge	2	401455	1.71	437500	**91.8**	30	-	120	
74	Ge	3	1716262	1.37	1769000	**97.0**	30	-	120	
103	Rh	2	773729	1.29	847200	**91.3**	30	-	120	
103	Rh	3	1507544	1.47	1574000	**95.8**	30	-	120	
165	Ho	3	3027746	0.73	3040000	**99.6**	30	-	120	
175	Lu	3	3246159	1.14	3395000	**95.6**	30	-	120	
209	Bi	3	6896272	1.22	7067000	**97.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\062SMPL.D\062SMPL.D#
Date Acquired: May 28 2010 04:56 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-18-B PDS Vial Number: 2407
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.837**	ug/l	91.85	1.2	450	6	P	
60	**Ni**	2	**625.600**	ug/l	31,280.00	0.3	15000	45	P	
63	**Cu**	2	**12.030**	ug/l	601.50	0.1	15000	45	P	
66	**Zn**	2	**25.780**	ug/l	1,289.00	3.2	15000	45	P	
78	**Se**	2	**77.820**	ug/l	3,891.00	2.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6586323	1.08	6852000	**96.1**	30	-	120	
45	Sc	1	106108	1.72	249000	**42.6**	30	-	120	
45	Sc	2	245933	1.16	274900	**89.5**	30	-	120	
74	Ge	1	81834	1.32	197500	**41.4**	30	-	120	
74	Ge	2	394042	0.88	437500	**90.1**	30	-	120	
74	Ge	3	1688021	0.62	1769000	**95.4**	30	-	120	
103	Rh	2	767533	1.28	847200	**90.6**	30	-	120	
103	Rh	3	1485942	0.57	1574000	**94.4**	30	-	120	
165	Ho	3	3012669	1.00	3040000	**99.1**	30	-	120	
175	Lu	3	3244867	1.01	3395000	**95.6**	30	-	120	
209	Bi	3	6799113	0.99	7067000	**96.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\063SMPL.D\063SMPL.D#
Date Acquired: May 28 2010 05:02 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64514/22-A Vial Number: 2408
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.883**	ug/l	94.15	4.9	450	6	P	
60	**Ni**	2	**20.540**	ug/l	1,027.00	3.0	15000	45	P	
63	**Cu**	2	**10.580**	ug/l	529.00	0.6	15000	45	P	
66	**Zn**	2	**20.670**	ug/l	1,033.50	2.4	15000	45	P	
78	**Se**	2	**79.640**	ug/l	3,982.00	2.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6296633	2.34	6852000	**91.9**	30	-	120	
45	Sc	1	98930	0.89	249000	**39.7**	30	-	120	
45	Sc	2	243511	1.20	274900	**88.6**	30	-	120	
74	Ge	1	75595	1.95	197500	**38.3**	30	-	120	
74	Ge	2	397125	1.12	437500	**90.8**	30	-	120	
74	Ge	3	1669186	1.04	1769000	**94.4**	30	-	120	
103	Rh	2	782134	1.42	847200	**92.3**	30	-	120	
103	Rh	3	1499834	0.90	1574000	**95.3**	30	-	120	
165	Ho	3	3008370	1.73	3040000	**99.0**	30	-	120	
175	Lu	3	3261355	1.11	3395000	**96.1**	30	-	120	
209	Bi	3	6862653	1.81	7067000	**97.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\064SMPL.D\064SMPL.D#
Date Acquired: May 28 2010 05:08 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64514/23-A Vial Number: 2409
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.913**	ug/l	95.65	3.7	450	6	P	
60	**Ni**	2	**20.370**	ug/l	1,018.50	0.4	15000	45	P	
63	**Cu**	2	**10.460**	ug/l	523.00	0.8	15000	45	P	
66	**Zn**	2	**20.510**	ug/l	1,025.50	3.7	15000	45	P	
78	**Se**	2	**82.760**	ug/l	4,138.00	5.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6254347	0.40	6852000	**91.3**	30	-	120	
45	Sc	1	100080	0.62	249000	**40.2**	30	-	120	
45	Sc	2	247817	0.62	274900	**90.1**	30	-	120	
74	Ge	1	76246	1.37	197500	**38.6**	30	-	120	
74	Ge	2	403604	0.61	437500	**92.3**	30	-	120	
74	Ge	3	1695804	1.29	1769000	**95.9**	30	-	120	
103	Rh	2	789868	0.69	847200	**93.2**	30	-	120	
103	Rh	3	1504731	1.65	1574000	**95.6**	30	-	120	
165	Ho	3	3032918	0.32	3040000	**99.8**	30	-	120	
175	Lu	3	3322615	0.54	3395000	**97.9**	30	-	120	
209	Bi	3	6888975	0.72	7067000	**97.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\065SMPL.D\065SMPL.D#
Date Acquired: May 28 2010 05:14 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64514/24-A Vial Number: 2410
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**85.730**	ug/l	1,714.60	1.8	450	6	P	
60	**Ni**	2	**98.120**	ug/l	1,962.40	1.2	15000	45	P	
63	**Cu**	2	**37.900**	ug/l	758.00	2.3	15000	45	P	
66	**Zn**	2	**198.400**	ug/l	3,968.00	2.3	15000	45	P	
78	**Se**	2	**85.110**	ug/l	1,702.20	6.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6491803	1.47	6852000	**94.7**	30	-	120	
45	Sc	1	101772	0.19	249000	**40.9**	30	-	120	
45	Sc	2	247464	0.94	274900	**90.0**	30	-	120	
74	Ge	1	77782	1.61	197500	**39.4**	30	-	120	
74	Ge	2	396143	0.98	437500	**90.5**	30	-	120	
74	Ge	3	1699757	1.06	1769000	**96.1**	30	-	120	
103	Rh	2	765388	0.66	847200	**90.3**	30	-	120	
103	Rh	3	1460718	0.87	1574000	**92.8**	30	-	120	
165	Ho	3	3013193	1.14	3040000	**99.1**	30	-	120	
175	Lu	3	3271972	2.00	3395000	**96.4**	30	-	120	
209	Bi	3	6746230	0.98	7067000	**95.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\066SMPL.D\066SMPL.D#
Date Acquired: May 28 2010 05:21 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.360**	ug/l	49.36	0.8	450	6	P	
60	**Ni**	2	**51.660**	ug/l	51.66	0.8	15000	45	P	
63	**Cu**	2	**52.550**	ug/l	52.55	0.2	15000	45	P	
66	**Zn**	2	**51.520**	ug/l	51.52	2.1	15000	45	P	
78	**Se**	2	**48.910**	ug/l	48.91	9.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6375232	0.85	6852000	**93.0**	30	-	120	
45	Sc	1	96058	0.35	249000	**38.6**	30	-	120	
45	Sc	2	244012	0.38	274900	**88.8**	30	-	120	
74	Ge	1	72362	0.77	197500	**36.6**	30	-	120	
74	Ge	2	396434	1.78	437500	**90.6**	30	-	120	
74	Ge	3	1700544	1.73	1769000	**96.1**	30	-	120	
103	Rh	2	766299	0.43	847200	**90.5**	30	-	120	
103	Rh	3	1479376	1.29	1574000	**94.0**	30	-	120	
165	Ho	3	3006803	2.04	3040000	**98.9**	30	-	120	
175	Lu	3	3274611	1.47	3395000	**96.5**	30	-	120	
209	Bi	3	6784015	1.04	7067000	**96.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\067SMPL.D\067SMPL.D#
Date Acquired: May 28 2010 05:27 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.027**	ug/l	0.03	29.9	450	6	P	
60	**Ni**	2	**0.102**	ug/l	0.10	51.6	15000	45	P	
63	**Cu**	2	**0.031**	ug/l	0.03	24.9	15000	45	P	
66	**Zn**	2	**0.276**	ug/l	0.28	18.4	15000	45	P	
78	**Se**	2	**0.150**	ug/l	0.15	420.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6584063	2.96	6852000	**96.1**	30	-	120	
45	Sc	1	91774	0.44	249000	**36.9**	30	-	120	
45	Sc	2	250461	0.54	274900	**91.1**	30	-	120	
74	Ge	1	70087	2.03	197500	**35.5**	30	-	120	
74	Ge	2	404180	1.31	437500	**92.4**	30	-	120	
74	Ge	3	1688701	1.12	1769000	**95.5**	30	-	120	
103	Rh	2	798473	2.13	847200	**94.2**	30	-	120	
103	Rh	3	1508303	1.28	1574000	**95.8**	30	-	120	
165	Ho	3	3005392	0.18	3040000	**98.9**	30	-	120	
175	Lu	3	3296416	0.71	3395000	**97.1**	30	-	120	
209	Bi	3	7004226	0.51	7067000	**99.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\068SMPL.D\068SMPL.D#
Date Acquired: May 28 2010 05:33 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-19-B Vial Number: 2501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.010**	ug/l	0.10	16.7	450	6	P	
60	**Ni**	2	**4680.000**	ug/l	46,800.00	0.7	15000	45	A	
63	**Cu**	2	**27.730**	ug/l	277.30	0.7	15000	45	P	
66	**Zn**	2	**40.650**	ug/l	406.50	2.0	15000	45	P	
78	**Se**	2	**0.049**	ug/l	0.49	558.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5699321	2.40	6852000	**83.2**	30	-	120	
45	Sc	1	95417	0.87	249000	**38.3**	30	-	120	
45	Sc	2	263520	0.55	274900	**95.9**	30	-	120	
74	Ge	1	61174	1.23	197500	**31.0**	30	-	120	
74	Ge	2	370260	1.31	437500	**84.6**	30	-	120	
74	Ge	3	1552676	1.30	1769000	**87.8**	30	-	120	
103	Rh	2	685565	0.93	847200	**80.9**	30	-	120	
103	Rh	3	1329328	1.25	1574000	**84.5**	30	-	120	
165	Ho	3	2838977	1.25	3040000	**93.4**	30	-	120	
175	Lu	3	3096746	0.77	3395000	**91.2**	30	-	120	
209	Bi	3	5932724	1.21	7067000	**83.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\069SMPL.D\069SMPL.D#
Date Acquired: May 28 2010 05:39 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-20-B Vial Number: 2502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.03	59.3	450	6	P	
60	**Ni**	2	**3742.000**	ug/l	37,420.00	1.1	15000	45	A	
63	**Cu**	2	**9.070**	ug/l	90.70	2.0	15000	45	P	
66	**Zn**	2	**49.290**	ug/l	492.90	1.7	15000	45	P	
78	**Se**	2	**0.229**	ug/l	2.29	176.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5520700	0.74	6852000	**80.6**	30	-	120	
45	Sc	1	86635	0.68	249000	**34.8**	30	-	120	
45	Sc	2	255377	1.17	274900	**92.9**	30	-	120	
74	Ge	1	55648	2.02	197500	**28.2**	30	-	120	**IS Fail**
74	Ge	2	369055	1.06	437500	**84.4**	30	-	120	
74	Ge	3	1558203	0.57	1769000	**88.1**	30	-	120	
103	Rh	2	692258	1.22	847200	**81.7**	30	-	120	
103	Rh	3	1337882	1.22	1574000	**85.0**	30	-	120	
165	Ho	3	2854654	0.67	3040000	**93.9**	30	-	120	
175	Lu	3	3123659	0.47	3395000	**92.0**	30	-	120	
209	Bi	3	5992903	0.87	7067000	**84.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\070SMPL.D\070SMPL.D#
Date Acquired: May 28 2010 05:45 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19393-A-21-B Vial Number: 2503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.892**	ug/l	8.92	0.6	450	6	P	
60	**Ni**	2	**464.000**	ug/l	4,640.00	0.3	15000	45	P	
63	**Cu**	2	**51.060**	ug/l	510.60	1.9	15000	45	P	
66	**Zn**	2	**93.020**	ug/l	930.20	0.2	15000	45	P	
78	**Se**	2	**0.622**	ug/l	6.22	206.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6334126	1.39	6852000	**92.4**	30	-	120	
45	Sc	1	79241	1.48	249000	**31.8**	30	-	120	
45	Sc	2	253538	1.46	274900	**92.2**	30	-	120	
74	Ge	1	52802	0.63	197500	**26.7**	30	-	120	**IS Fail**
74	Ge	2	386403	1.03	437500	**88.3**	30	-	120	
74	Ge	3	1676619	1.27	1769000	**94.8**	30	-	120	
103	Rh	2	734609	1.54	847200	**86.7**	30	-	120	
103	Rh	3	1437957	0.52	1574000	**91.4**	30	-	120	
165	Ho	3	2946070	0.62	3040000	**96.9**	30	-	120	
175	Lu	3	3263389	0.74	3395000	**96.1**	30	-	120	
209	Bi	3	6444422	0.54	7067000	**91.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\071SMPL.D\071SMPL.D#
Date Acquired: May 28 2010 05:51 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-1-B Vial Number: 2504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.061**	ug/l	0.61	2.8	450	6	P	
60	**Ni**	2	**3233.000**	ug/l	32,330.00	0.6	15000	45	A	
63	**Cu**	2	**7.916**	ug/l	79.16	1.3	15000	45	P	
66	**Zn**	2	**44.560**	ug/l	445.60	2.6	15000	45	P	
78	**Se**	2	**0.060**	ug/l	0.60	903.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5904920	1.03	6852000	**86.2**	30	-	120	
45	Sc	1	76497	0.29	249000	**30.7**	30	-	120	
45	Sc	2	248149	2.14	274900	**90.3**	30	-	120	
74	Ge	1	50604	0.47	197500	**25.6**	30	-	120	**IS Fail**
74	Ge	2	365358	0.50	437500	**83.5**	30	-	120	
74	Ge	3	1593766	1.47	1769000	**90.1**	30	-	120	
103	Rh	2	688483	1.29	847200	**81.3**	30	-	120	
103	Rh	3	1370545	0.38	1574000	**87.1**	30	-	120	
165	Ho	3	2864663	0.96	3040000	**94.2**	30	-	120	
175	Lu	3	3134299	0.90	3395000	**92.3**	30	-	120	
209	Bi	3	6071105	0.90	7067000	**85.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\072SMPL.D\072SMPL.D#
Date Acquired: May 28 2010 05:57 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-2-B Vial Number: 2505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.863**	ug/l	8.63	1.9	450	6	P	
60	**Ni**	2	**556.700**	ug/l	5,567.00	0.8	15000	45	P	
63	**Cu**	2	**308.300**	ug/l	3,083.00	0.5	15000	45	P	
66	**Zn**	2	**353.600**	ug/l	3,536.00	0.6	15000	45	P	
78	**Se**	2	**1.469**	ug/l	14.69	62.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6700671	0.71	6852000	**97.8**	30	-	120	
45	Sc	1	72128	1.11	249000	**29.0**	30	-	120	**IS Fail**
45	Sc	2	262666	0.28	274900	**95.5**	30	-	120	
74	Ge	1	48224	1.76	197500	**24.4**	30	-	120	**IS Fail**
74	Ge	2	387468	1.22	437500	**88.6**	30	-	120	
74	Ge	3	1745382	0.93	1769000	**98.7**	30	-	120	
103	Rh	2	736270	1.60	847200	**86.9**	30	-	120	
103	Rh	3	1498793	0.72	1574000	**95.2**	30	-	120	
165	Ho	3	3049019	0.33	3040000	**100.3**	30	-	120	
175	Lu	3	3295420	0.25	3395000	**97.1**	30	-	120	
209	Bi	3	6562716	1.06	7067000	**92.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\073SMPL.D\073SMPL.D#
Date Acquired: May 28 2010 06:03 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-3-B Vial Number: 2506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.995**	ug/l	9.95	1.4	450	6	P	
60	**Ni**	2	**1292.000**	ug/l	12,920.00	1.5	15000	45	A	
63	**Cu**	2	**102.500**	ug/l	1,025.00	1.1	15000	45	P	
66	**Zn**	2	**180.100**	ug/l	1,801.00	1.2	15000	45	P	
78	**Se**	2	**1.105**	ug/l	11.05	33.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6629905	0.75	6852000	**96.8**	30	-	120	
45	Sc	1	70516	1.82	249000	**28.3**	30	-	120	**IS Fail**
45	Sc	2	264528	1.09	274900	**96.2**	30	-	120	
74	Ge	1	45323	1.77	197500	**22.9**	30	-	120	**IS Fail**
74	Ge	2	390945	0.98	437500	**89.4**	30	-	120	
74	Ge	3	1716809	1.08	1769000	**97.0**	30	-	120	
103	Rh	2	745781	1.68	847200	**88.0**	30	-	120	
103	Rh	3	1481213	1.18	1574000	**94.1**	30	-	120	
165	Ho	3	2971081	0.88	3040000	**97.7**	30	-	120	
175	Lu	3	3252769	0.99	3395000	**95.8**	30	-	120	
209	Bi	3	6546621	0.95	7067000	**92.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\074SMPL.D\074SMPL.D#
Date Acquired: May 28 2010 06:09 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-4-B Vial Number: 2507
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.031**	ug/l	10.31	2.2	450	6	P	
60	**Ni**	2	**123.200**	ug/l	1,232.00	0.8	15000	45	P	
63	**Cu**	2	**55.070**	ug/l	550.70	1.4	15000	45	P	
66	**Zn**	2	**121.800**	ug/l	1,218.00	0.8	15000	45	P	
78	**Se**	2	**1.106**	ug/l	11.06	115.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6517258	1.20	6852000	**95.1**	30	-	120	
45	Sc	1	68689	1.81	249000	**27.6**	30	-	120	**IS Fail**
45	Sc	2	258465	1.34	274900	**94.0**	30	-	120	
74	Ge	1	45574	0.42	197500	**23.1**	30	-	120	**IS Fail**
74	Ge	2	390031	0.65	437500	**89.2**	30	-	120	
74	Ge	3	1691504	0.78	1769000	**95.6**	30	-	120	
103	Rh	2	745003	0.62	847200	**87.9**	30	-	120	
103	Rh	3	1463268	0.34	1574000	**93.0**	30	-	120	
165	Ho	3	2967739	1.50	3040000	**97.6**	30	-	120	
175	Lu	3	3251644	1.56	3395000	**95.8**	30	-	120	
209	Bi	3	6509133	0.85	7067000	**92.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\075SMPL.D\075SMPL.D#
Date Acquired: May 28 2010 06:15 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-5-B Vial Number: 2508
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.600**	ug/l	6.00	7.4	450	6	P	
60	**Ni**	2	**2637.000**	ug/l	26,370.00	1.1	15000	45	A	
63	**Cu**	2	**50.330**	ug/l	503.30	1.3	15000	45	P	
66	**Zn**	2	**110.800**	ug/l	1,108.00	0.6	15000	45	P	
78	**Se**	2	**0.214**	ug/l	2.14	74.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5935311	0.42	6852000	**86.6**	30	-	120	
45	Sc	1	72778	0.15	249000	**29.2**	30	-	120	**IS Fail**
45	Sc	2	259598	0.22	274900	**94.4**	30	-	120	
74	Ge	1	46280	2.53	197500	**23.4**	30	-	120	**IS Fail**
74	Ge	2	375706	1.16	437500	**85.9**	30	-	120	
74	Ge	3	1613272	1.66	1769000	**91.2**	30	-	120	
103	Rh	2	704648	1.29	847200	**83.2**	30	-	120	
103	Rh	3	1400288	0.40	1574000	**89.0**	30	-	120	
165	Ho	3	2861369	1.26	3040000	**94.1**	30	-	120	
175	Lu	3	3142963	1.13	3395000	**92.6**	30	-	120	
209	Bi	3	6030387	1.15	7067000	**85.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\076SMPL.D\076SMPL.D#
Date Acquired: May 28 2010 06:21 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-6-B Vial Number: 2509
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.870**	ug/l	8.70	5.6	450	6	P	
60	**Ni**	2	**4858.000**	ug/l	48,580.00	1.6	15000	45	A	
63	**Cu**	2	**35.060**	ug/l	350.60	1.2	15000	45	P	
66	**Zn**	2	**108.100**	ug/l	1,081.00	0.7	15000	45	P	
78	**Se**	2	**0.972**	ug/l	9.72	40.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5951190	0.92	6852000	**86.9**	30	-	120	
45	Sc	1	65449	1.20	249000	**26.3**	30	-	120	**IS Fail**
45	Sc	2	278083	1.21	274900	**101.2**	30	-	120	
74	Ge	1	39329	4.16	197500	**19.9**	30	-	120	**IS Fail**
74	Ge	2	383252	0.33	437500	**87.6**	30	-	120	
74	Ge	3	1682476	0.73	1769000	**95.1**	30	-	120	
103	Rh	2	718017	0.98	847200	**84.8**	30	-	120	
103	Rh	3	1437001	0.63	1574000	**91.3**	30	-	120	
165	Ho	3	2932154	1.04	3040000	**96.5**	30	-	120	
175	Lu	3	3208415	0.42	3395000	**94.5**	30	-	120	
209	Bi	3	6097560	1.39	7067000	**86.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\077SMPL.D\077SMPL.D#
Date Acquired: May 28 2010 06:28 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-7-B Vial Number: 2510
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.015**	ug/l	10.15	5.1	450	6	P	
60	**Ni**	2	**2506.000**	ug/l	25,060.00	1.1	15000	45	A	
63	**Cu**	2	**70.130**	ug/l	701.30	1.4	15000	45	P	
66	**Zn**	2	**154.300**	ug/l	1,543.00	0.8	15000	45	P	
78	**Se**	2	**1.207**	ug/l	12.07	65.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6248976	1.13	6852000	**91.2**	30	-	120	
45	Sc	1	54063	2.58	249000	**21.7**	30	-	120	**IS Fail**
45	Sc	2	271620	1.40	274900	**98.8**	30	-	120	
74	Ge	1	32687	6.07	197500	**16.6**	30	-	120	**IS Fail**
74	Ge	2	388007	1.01	437500	**88.7**	30	-	120	
74	Ge	3	1693095	0.39	1769000	**95.7**	30	-	120	
103	Rh	2	729235	2.00	847200	**86.1**	30	-	120	
103	Rh	3	1477116	0.81	1574000	**93.8**	30	-	120	
165	Ho	3	2983836	1.19	3040000	**98.2**	30	-	120	
175	Lu	3	3210221	0.64	3395000	**94.6**	30	-	120	
209	Bi	3	6220862	1.41	7067000	**88.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\078SMPL.D\078SMPL.D#
Date Acquired: May 28 2010 06:34 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.220**	ug/l	49.22	2.4	450	6	P	
60	**Ni**	2	**53.720**	ug/l	53.72	0.6	15000	45	P	
63	**Cu**	2	**52.910**	ug/l	52.91	0.5	15000	45	P	
66	**Zn**	2	**51.490**	ug/l	51.49	1.4	15000	45	P	
78	**Se**	2	**47.920**	ug/l	47.92	6.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6260111	1.92	6852000	**91.4**	30	-	120	
45	Sc	1	56403	2.72	249000	**22.7**	30	-	120	**IS Fail**
45	Sc	2	238529	0.75	274900	**86.8**	30	-	120	
74	Ge	1	39433	0.85	197500	**20.0**	30	-	120	**IS Fail**
74	Ge	2	390542	0.97	437500	**89.3**	30	-	120	
74	Ge	3	1725633	0.97	1769000	**97.5**	30	-	120	
103	Rh	2	760116	0.39	847200	**89.7**	30	-	120	
103	Rh	3	1503851	0.24	1574000	**95.5**	30	-	120	
165	Ho	3	3007237	0.20	3040000	**98.9**	30	-	120	
175	Lu	3	3292818	0.84	3395000	**97.0**	30	-	120	
209	Bi	3	6758967	0.69	7067000	**95.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\079SMPL.D\079SMPL.D#
Date Acquired: May 28 2010 06:40 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.018**	ug/l	0.02	23.3	450	6	P	
60	**Ni**	2	**0.486**	ug/l	0.49	6.8	15000	45	P	
63	**Cu**	2	**0.047**	ug/l	0.05	56.3	15000	45	P	
66	**Zn**	2	**0.261**	ug/l	0.26	9.8	15000	45	P	
78	**Se**	2	**-0.093**	ug/l	-0.09	152.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6057252	2.10	6852000	**88.4**	30	-	120	
45	Sc	1	60977	2.97	249000	**24.5**	30	-	120	**IS Fail**
45	Sc	2	241545	0.54	274900	**87.9**	30	-	120	
74	Ge	1	44510	1.83	197500	**22.5**	30	-	120	**IS Fail**
74	Ge	2	399340	1.57	437500	**91.3**	30	-	120	
74	Ge	3	1682463	1.12	1769000	**95.1**	30	-	120	
103	Rh	2	791098	0.77	847200	**93.4**	30	-	120	
103	Rh	3	1494773	2.30	1574000	**95.0**	30	-	120	
165	Ho	3	2983307	0.69	3040000	**98.1**	30	-	120	
175	Lu	3	3290021	2.08	3395000	**96.9**	30	-	120	
209	Bi	3	6940340	0.81	7067000	**98.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\080SMPL.D\080SMPL.D#
Date Acquired: May 28 2010 06:46 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-8-B Vial Number: 3101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.268**	ug/l	12.68	1.9	450	6	P	
60	**Ni**	2	**2360.000**	ug/l	23,600.00	1.8	15000	45	A	
63	**Cu**	2	**70.210**	ug/l	702.10	0.4	15000	45	P	
66	**Zn**	2	**140.200**	ug/l	1,402.00	0.5	15000	45	P	
78	**Se**	2	**0.946**	ug/l	9.46	56.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6201590	0.56	6852000	**90.5**	30	-	120	
45	Sc	1	67691	0.62	249000	**27.2**	30	-	120	**IS Fail**
45	Sc	2	272189	1.23	274900	**99.0**	30	-	120	
74	Ge	1	42339	1.23	197500	**21.4**	30	-	120	**IS Fail**
74	Ge	2	388991	0.94	437500	**88.9**	30	-	120	
74	Ge	3	1739492	0.44	1769000	**98.3**	30	-	120	
103	Rh	2	732315	0.38	847200	**86.4**	30	-	120	
103	Rh	3	1462500	0.92	1574000	**92.9**	30	-	120	
165	Ho	3	3022663	0.25	3040000	**99.4**	30	-	120	
175	Lu	3	3269136	0.75	3395000	**96.3**	30	-	120	
209	Bi	3	6360283	0.83	7067000	**90.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\081SMPL.D\081SMPL.D#
Date Acquired: May 28 2010 06:52 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-9-A Vial Number: 3102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.355**	ug/l	13.55	2.0	450	6	P	
60	**Ni**	2	**584.500**	ug/l	5,845.00	0.5	15000	45	P	
63	**Cu**	2	**60.100**	ug/l	601.00	0.2	15000	45	P	
66	**Zn**	2	**125.600**	ug/l	1,256.00	2.5	15000	45	P	
78	**Se**	2	**0.353**	ug/l	3.53	112.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6238944	1.39	6852000	**91.1**	30	-	120	
45	Sc	1	57049	1.57	249000	**22.9**	30	-	120	**IS Fail**
45	Sc	2	262920	1.48	274900	**95.6**	30	-	120	
74	Ge	1	36126	2.54	197500	**18.3**	30	-	120	**IS Fail**
74	Ge	2	388334	1.92	437500	**88.8**	30	-	120	
74	Ge	3	1660920	0.65	1769000	**93.9**	30	-	120	
103	Rh	2	745981	1.39	847200	**88.1**	30	-	120	
103	Rh	3	1438159	0.67	1574000	**91.4**	30	-	120	
165	Ho	3	2962077	0.19	3040000	**97.4**	30	-	120	
175	Lu	3	3216173	0.50	3395000	**94.7**	30	-	120	
209	Bi	3	6462683	1.38	7067000	**91.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\082SMPL.D\082SMPL.D#
Date Acquired: May 28 2010 06:58 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-10-A Vial Number: 3103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.037**	ug/l	10.37	1.2	450	6	P	
60	**Ni**	2	**541.100**	ug/l	5,411.00	1.3	15000	45	P	
63	**Cu**	2	**76.190**	ug/l	761.90	1.3	15000	45	P	
66	**Zn**	2	**125.800**	ug/l	1,258.00	2.1	15000	45	P	
78	**Se**	2	**1.597**	ug/l	15.97	15.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6259212	0.81	6852000	**91.3**	30	-	120	
45	Sc	1	56228	1.38	249000	**22.6**	30	-	120	**IS Fail**
45	Sc	2	254262	1.66	274900	**92.5**	30	-	120	
74	Ge	1	36414	3.55	197500	**18.4**	30	-	120	**IS Fail**
74	Ge	2	379784	2.19	437500	**86.8**	30	-	120	
74	Ge	3	1662880	1.45	1769000	**94.0**	30	-	120	
103	Rh	2	724906	1.11	847200	**85.6**	30	-	120	
103	Rh	3	1427894	1.12	1574000	**90.7**	30	-	120	
165	Ho	3	2946787	0.86	3040000	**96.9**	30	-	120	
175	Lu	3	3239531	0.66	3395000	**95.4**	30	-	120	
209	Bi	3	6406460	0.02	7067000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\083SMPL.D\083SMPL.D#
Date Acquired: May 28 2010 07:04 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-11-B Vial Number: 3104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.043**	ug/l	10.43	1.6	450	6	P	
60	**Ni**	2	**1928.000**	ug/l	19,280.00	0.8	15000	45	A	
63	**Cu**	2	**74.150**	ug/l	741.50	2.2	15000	45	P	
66	**Zn**	2	**134.100**	ug/l	1,341.00	2.3	15000	45	P	
78	**Se**	2	**0.457**	ug/l	4.57	88.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6093611	1.03	6852000	**88.9**	30	-	120	
45	Sc	1	55235	0.44	249000	**22.2**	30	-	120	**IS Fail**
45	Sc	2	260475	0.94	274900	**94.8**	30	-	120	
74	Ge	1	34486	2.53	197500	**17.5**	30	-	120	**IS Fail**
74	Ge	2	382660	0.68	437500	**87.5**	30	-	120	
74	Ge	3	1704007	1.11	1769000	**96.3**	30	-	120	
103	Rh	2	726875	1.42	847200	**85.8**	30	-	120	
103	Rh	3	1443580	1.06	1574000	**91.7**	30	-	120	
165	Ho	3	2991074	0.30	3040000	**98.4**	30	-	120	
175	Lu	3	3265039	1.04	3395000	**96.2**	30	-	120	
209	Bi	3	6319258	0.25	7067000	**89.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\084SMPL.D\084SMPL.D#
Date Acquired: May 28 2010 07:10 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-12-A Vial Number: 3105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.409**	ug/l	4.09	1.3	450	6	P	
60	**Ni**	2	**2823.000**	ug/l	28,230.00	2.3	15000	45	A	
63	**Cu**	2	**66.540**	ug/l	665.40	2.0	15000	45	P	
66	**Zn**	2	**80.470**	ug/l	804.70	1.5	15000	45	P	
78	**Se**	2	**0.206**	ug/l	2.06	68.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5902478	1.60	6852000	**86.1**	30	-	120	
45	Sc	1	51281	0.83	249000	**20.6**	30	-	120	**IS Fail**
45	Sc	2	263991	1.27	274900	**96.0**	30	-	120	
74	Ge	1	30852	1.01	197500	**15.6**	30	-	120	**IS Fail**
74	Ge	2	378015	1.53	437500	**86.4**	30	-	120	
74	Ge	3	1657885	0.84	1769000	**93.7**	30	-	120	
103	Rh	2	714263	2.00	847200	**84.3**	30	-	120	
103	Rh	3	1440409	0.44	1574000	**91.5**	30	-	120	
165	Ho	3	2970264	0.67	3040000	**97.7**	30	-	120	
175	Lu	3	3245016	1.39	3395000	**95.6**	30	-	120	
209	Bi	3	6244226	0.30	7067000	**88.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\085SMPL.D\085SMPL.D#
Date Acquired: May 28 2010 07:16 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-13-B Vial Number: 3106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.867**	ug/l	8.67	5.2	450	6	P	
60	**Ni**	2	**2433.000**	ug/l	24,330.00	0.4	15000	45	A	
63	**Cu**	2	**62.240**	ug/l	622.40	1.0	15000	45	P	
66	**Zn**	2	**134.700**	ug/l	1,347.00	1.5	15000	45	P	
78	**Se**	2	**1.355**	ug/l	13.55	78.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5929311	0.82	6852000	**86.5**	30	-	120	
45	Sc	1	49768	0.80	249000	**20.0**	30	-	120	**IS Fail**
45	Sc	2	259621	0.37	274900	**94.4**	30	-	120	
74	Ge	1	30538	0.77	197500	**15.5**	30	-	120	**IS Fail**
74	Ge	2	376998	0.63	437500	**86.2**	30	-	120	
74	Ge	3	1648660	0.90	1769000	**93.2**	30	-	120	
103	Rh	2	726739	0.39	847200	**85.8**	30	-	120	
103	Rh	3	1413659	0.94	1574000	**89.8**	30	-	120	
165	Ho	3	2908795	1.72	3040000	**95.7**	30	-	120	
175	Lu	3	3191475	0.47	3395000	**94.0**	30	-	120	
209	Bi	3	6334268	0.56	7067000	**89.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\086SMPL.D\086SMPL.D#
Date Acquired: May 28 2010 07:22 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**48.200**	ug/l	48.20	0.6	450	6	P	
60	**Ni**	2	**53.690**	ug/l	53.69	2.7	15000	45	P	
63	**Cu**	2	**53.370**	ug/l	53.37	1.6	15000	45	P	
66	**Zn**	2	**52.790**	ug/l	52.79	0.8	15000	45	P	
78	**Se**	2	**50.670**	ug/l	50.67	7.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6144418	0.18	6852000	**89.7**	30	-	120	
45	Sc	1	50304	2.79	249000	**20.2**	30	-	120	**IS Fail**
45	Sc	2	231495	0.74	274900	**84.2**	30	-	120	
74	Ge	1	35388	2.00	197500	**17.9**	30	-	120	**IS Fail**
74	Ge	2	383574	1.23	437500	**87.7**	30	-	120	
74	Ge	3	1668919	0.76	1769000	**94.3**	30	-	120	
103	Rh	2	752756	0.60	847200	**88.9**	30	-	120	
103	Rh	3	1462007	1.45	1574000	**92.9**	30	-	120	
165	Ho	3	3023466	1.40	3040000	**99.5**	30	-	120	
175	Lu	3	3322933	0.87	3395000	**97.9**	30	-	120	
209	Bi	3	6794372	0.69	7067000	**96.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\087SMPL.D\087SMPL.D#
Date Acquired: May 28 2010 07:29 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.017**	ug/l	0.02	12.8	450	6	P	
60	**Ni**	2	**0.412**	ug/l	0.41	17.9	15000	45	P	
63	**Cu**	2	**0.050**	ug/l	0.05	36.6	15000	45	P	
66	**Zn**	2	**0.202**	ug/l	0.20	27.2	15000	45	P	
78	**Se**	2	**-0.247**	ug/l	-0.25	180.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5895512	3.19	6852000	**86.0**	30	-	120	
45	Sc	1	55107	1.14	249000	**22.1**	30	-	120	**IS Fail**
45	Sc	2	237307	1.25	274900	**86.3**	30	-	120	
74	Ge	1	39543	0.63	197500	**20.0**	30	-	120	**IS Fail**
74	Ge	2	390955	1.04	437500	**89.4**	30	-	120	
74	Ge	3	1652299	0.57	1769000	**93.4**	30	-	120	
103	Rh	2	779757	0.68	847200	**92.0**	30	-	120	
103	Rh	3	1479446	1.52	1574000	**94.0**	30	-	120	
165	Ho	3	2988885	0.85	3040000	**98.3**	30	-	120	
175	Lu	3	3276155	1.97	3395000	**96.5**	30	-	120	
209	Bi	3	6901166	1.15	7067000	**97.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\088SMPL.D\088SMPL.D#
Date Acquired: May 28 2010 07:35 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64499/19-A Vial Number: 3201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.00	4.2	450	6	P	
60	**Ni**	2	**0.114**	ug/l	0.11	13.3	15000	45	P	
63	**Cu**	2	**0.015**	ug/l	0.01	77.9	15000	45	P	
66	**Zn**	2	**0.028**	ug/l	0.03	123.2	15000	45	P	
78	**Se**	2	**0.002**	ug/l	0.00	14817.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5835541	1.82	6852000	**85.2**	30	-	120	
45	Sc	1	57394	2.85	249000	**23.0**	30	-	120	**IS Fail**
45	Sc	2	237275	0.31	274900	**86.3**	30	-	120	
74	Ge	1	41466	2.14	197500	**21.0**	30	-	120	**IS Fail**
74	Ge	2	393602	1.27	437500	**90.0**	30	-	120	
74	Ge	3	1651321	1.57	1769000	**93.3**	30	-	120	
103	Rh	2	787887	1.10	847200	**93.0**	30	-	120	
103	Rh	3	1491401	0.38	1574000	**94.8**	30	-	120	
165	Ho	3	3014122	1.18	3040000	**99.1**	30	-	120	
175	Lu	3	3287048	0.40	3395000	**96.8**	30	-	120	
209	Bi	3	6987587	0.38	7067000	**98.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\089SMPL.D\089SMPL.D#
Date Acquired: May 28 2010 07:41 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-E SD Vial Number: 3202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.000**	ug/l	0.00	869.7	450	6	P	
60	**Ni**	2	**0.218**	ug/l	1.09	32.5	15000	45	P	
63	**Cu**	2	**0.066**	ug/l	0.33	5.1	15000	45	P	
66	**Zn**	2	**0.271**	ug/l	1.35	19.3	15000	45	P	
78	**Se**	2	**-0.084**	ug/l	-0.42	350.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5842976	1.02	6852000	**85.3**	30	-	120	
45	Sc	1	61429	1.68	249000	**24.7**	30	-	120	**IS Fail**
45	Sc	2	236583	0.54	274900	**86.1**	30	-	120	
74	Ge	1	44273	0.44	197500	**22.4**	30	-	120	**IS Fail**
74	Ge	2	394839	1.17	437500	**90.2**	30	-	120	
74	Ge	3	1670008	2.24	1769000	**94.4**	30	-	120	
103	Rh	2	779431	1.99	847200	**92.0**	30	-	120	
103	Rh	3	1500061	1.81	1574000	**95.3**	30	-	120	
165	Ho	3	3053922	0.56	3040000	**100.5**	30	-	120	
175	Lu	3	3329271	0.92	3395000	**98.1**	30	-	120	
209	Bi	3	6930660	1.24	7067000	**98.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\090SMPL.D\090SMPL.D#
Date Acquired: May 28 2010 07:47 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-E Vial Number: 3203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.000**	ug/l	0.00	413.2	450	6	P	
60	**Ni**	2	**1.206**	ug/l	1.21	10.7	15000	45	P	
63	**Cu**	2	**0.448**	ug/l	0.45	3.9	15000	45	P	
66	**Zn**	2	**9.300**	ug/l	9.30	12.3	15000	45	P	
78	**Se**	2	**0.057**	ug/l	0.06	991.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5657028	0.68	6852000	**82.6**	30	-	120	
45	Sc	1	57615	1.95	249000	**23.1**	30	-	120	**IS Fail**
45	Sc	2	230279	1.05	274900	**83.8**	30	-	120	
74	Ge	1	42908	2.47	197500	**21.7**	30	-	120	**IS Fail**
74	Ge	2	406948	1.22	437500	**93.0**	30	-	120	
74	Ge	3	1736066	0.48	1769000	**98.1**	30	-	120	
103	Rh	2	724596	1.60	847200	**85.5**	30	-	120	
103	Rh	3	1388638	0.83	1574000	**88.2**	30	-	120	
165	Ho	3	2934400	0.75	3040000	**96.5**	30	-	120	
175	Lu	3	3195435	1.17	3395000	**94.1**	30	-	120	
209	Bi	3	6523066	1.02	7067000	**92.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\091SMPL.D\091SMPL.D#
Date Acquired: May 28 2010 07:53 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-F DU Vial Number: 3204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	122.4	450	6	P	
60	**Ni**	2	**1.216**	ug/l	1.22	16.8	15000	45	P	
63	**Cu**	2	**0.415**	ug/l	0.41	6.8	15000	45	P	
66	**Zn**	2	**2.012**	ug/l	2.01	3.1	15000	45	P	
78	**Se**	2	**-0.269**	ug/l	-0.27	239.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5457596	1.76	6852000	**79.6**	30	-	120	
45	Sc	1	55177	1.77	249000	**22.2**	30	-	120	**IS Fail**
45	Sc	2	231056	0.65	274900	**84.1**	30	-	120	
74	Ge	1	41129	1.63	197500	**20.8**	30	-	120	**IS Fail**
74	Ge	2	407134	0.68	437500	**93.1**	30	-	120	
74	Ge	3	1728010	0.57	1769000	**97.7**	30	-	120	
103	Rh	2	731990	0.43	847200	**86.4**	30	-	120	
103	Rh	3	1386805	0.91	1574000	**88.1**	30	-	120	
165	Ho	3	2969429	0.26	3040000	**97.7**	30	-	120	
175	Lu	3	3226570	0.58	3395000	**95.0**	30	-	120	
209	Bi	3	6576926	0.37	7067000	**93.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\092SMPL.D\092SMPL.D#
Date Acquired: May 28 2010 07:59 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-G MS Vial Number: 3205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.946**	ug/l	97.30	2.9	450	6	P	
60	**Ni**	2	**20.760**	ug/l	1,038.00	5.5	15000	45	P	
63	**Cu**	2	**10.590**	ug/l	529.50	1.3	15000	45	P	
66	**Zn**	2	**20.850**	ug/l	1,042.50	1.1	15000	45	P	
78	**Se**	2	**79.370**	ug/l	3,968.50	9.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6118107	1.46	6852000	**89.3**	30	-	120	
45	Sc	1	56647	1.65	249000	**22.7**	30	-	120	**IS Fail**
45	Sc	2	246524	1.02	274900	**89.7**	30	-	120	
74	Ge	1	41440	1.38	197500	**21.0**	30	-	120	**IS Fail**
74	Ge	2	403269	1.83	437500	**92.2**	30	-	120	
74	Ge	3	1718269	0.63	1769000	**97.1**	30	-	120	
103	Rh	2	798756	1.53	847200	**94.3**	30	-	120	
103	Rh	3	1560934	1.22	1574000	**99.2**	30	-	120	
165	Ho	3	3096874	0.58	3040000	**101.9**	30	-	120	
175	Lu	3	3391869	1.18	3395000	**99.9**	30	-	120	
209	Bi	3	7120210	0.53	7067000	**100.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\093SMPL.D\093SMPL.D#
Date Acquired: May 28 2010 08:05 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-H MSD Vial Number: 3206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.998**	ug/l	99.90	1.6	450	6	P	
60	**Ni**	2	**21.750**	ug/l	1,087.50	2.5	15000	45	P	
63	**Cu**	2	**11.110**	ug/l	555.50	2.9	15000	45	P	
66	**Zn**	2	**21.540**	ug/l	1,077.00	6.1	15000	45	P	
78	**Se**	2	**81.020**	ug/l	4,051.00	5.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6179661	1.19	6852000	**90.2**	30	-	120	
45	Sc	1	57039	1.44	249000	**22.9**	30	-	120	**IS Fail**
45	Sc	2	241823	0.60	274900	**88.0**	30	-	120	
74	Ge	1	41955	1.01	197500	**21.2**	30	-	120	**IS Fail**
74	Ge	2	401593	0.82	437500	**91.8**	30	-	120	
74	Ge	3	1720391	0.85	1769000	**97.3**	30	-	120	
103	Rh	2	795418	1.79	847200	**93.9**	30	-	120	
103	Rh	3	1553296	0.44	1574000	**98.7**	30	-	120	
165	Ho	3	3101839	0.88	3040000	**102.0**	30	-	120	
175	Lu	3	3376803	0.89	3395000	**99.5**	30	-	120	
209	Bi	3	7082393	0.74	7067000	**100.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\094SMPL.D\094SMPL.D#
Date Acquired: May 28 2010 08:12 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-1-E PDS Vial Number: 3207
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.001**	ug/l	100.05	2.8	450	6	P	
60	**Ni**	2	**20.850**	ug/l	1,042.50	2.0	15000	45	P	
63	**Cu**	2	**11.090**	ug/l	554.50	2.7	15000	45	P	
66	**Zn**	2	**22.620**	ug/l	1,131.00	0.5	15000	45	P	
78	**Se**	2	**82.640**	ug/l	4,132.00	3.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6256188	2.20	6852000	**91.3**	30	-	120	
45	Sc	1	58398	0.47	249000	**23.5**	30	-	120	**IS Fail**
45	Sc	2	243727	0.37	274900	**88.7**	30	-	120	
74	Ge	1	43406	0.12	197500	**22.0**	30	-	120	**IS Fail**
74	Ge	2	397767	1.52	437500	**90.9**	30	-	120	
74	Ge	3	1734505	0.84	1769000	**98.1**	30	-	120	
103	Rh	2	797091	1.12	847200	**94.1**	30	-	120	
103	Rh	3	1557440	0.35	1574000	**98.9**	30	-	120	
165	Ho	3	3062524	1.07	3040000	**100.7**	30	-	120	
175	Lu	3	3412736	1.21	3395000	**100.5**	30	-	120	
209	Bi	3	7105603	1.48	7067000	**100.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\095SMPL.D\095SMPL.D#
Date Acquired: May 28 2010 08:18 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64499/20-A Vial Number: 3208
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.893**	ug/l	94.65	2.7	450	6	P	
60	**Ni**	2	**20.630**	ug/l	1,031.50	4.7	15000	45	P	
63	**Cu**	2	**10.690**	ug/l	534.50	0.1	15000	45	P	
66	**Zn**	2	**20.970**	ug/l	1,048.50	5.9	15000	45	P	
78	**Se**	2	**79.590**	ug/l	3,979.50	3.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5914554	1.31	6852000	**86.3**	30	-	120	
45	Sc	1	59540	1.48	249000	**23.9**	30	-	120	**IS Fail**
45	Sc	2	240192	0.79	274900	**87.4**	30	-	120	
74	Ge	1	43175	0.23	197500	**21.9**	30	-	120	**IS Fail**
74	Ge	2	398552	0.40	437500	**91.1**	30	-	120	
74	Ge	3	1696777	1.05	1769000	**95.9**	30	-	120	
103	Rh	2	787039	1.50	847200	**92.9**	30	-	120	
103	Rh	3	1542718	1.84	1574000	**98.0**	30	-	120	
165	Ho	3	3072486	1.30	3040000	**101.1**	30	-	120	
175	Lu	3	3337843	0.89	3395000	**98.3**	30	-	120	
209	Bi	3	7062882	1.39	7067000	**99.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\096SMPL.D\096SMPL.D#
Date Acquired: May 28 2010 08:24 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64499/21-A Vial Number: 3209
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.949**	ug/l	97.45	5.5	450	6	P	
60	**Ni**	2	**21.040**	ug/l	1,052.00	1.6	15000	45	P	
63	**Cu**	2	**10.890**	ug/l	544.50	3.3	15000	45	P	
66	**Zn**	2	**20.560**	ug/l	1,028.00	1.5	15000	45	P	
78	**Se**	2	**80.980**	ug/l	4,049.00	15.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5810710	1.91	6852000	**84.8**	30	-	120	
45	Sc	1	62424	3.87	249000	**25.1**	30	-	120	**IS Fail**
45	Sc	2	241553	0.54	274900	**87.9**	30	-	120	
74	Ge	1	44851	1.33	197500	**22.7**	30	-	120	**IS Fail**
74	Ge	2	398628	0.18	437500	**91.1**	30	-	120	
74	Ge	3	1705406	0.99	1769000	**96.4**	30	-	120	
103	Rh	2	798424	1.23	847200	**94.2**	30	-	120	
103	Rh	3	1540798	0.24	1574000	**97.9**	30	-	120	
165	Ho	3	3042535	0.70	3040000	**100.1**	30	-	120	
175	Lu	3	3332364	0.25	3395000	**98.2**	30	-	120	
209	Bi	3	7044826	0.36	7067000	**99.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\097SMPL.D\097SMPL.D#
Date Acquired: May 28 2010 08:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.150**	ug/l	49.15	0.8	450	6	P	
60	**Ni**	2	**52.070**	ug/l	52.07	2.3	15000	45	P	
63	**Cu**	2	**52.860**	ug/l	52.86	0.8	15000	45	P	
66	**Zn**	2	**51.390**	ug/l	51.39	3.0	15000	45	P	
78	**Se**	2	**47.720**	ug/l	47.72	5.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6021791	1.39	6852000	**87.9**	30	-	120	
45	Sc	1	65623	1.37	249000	**26.4**	30	-	120	**IS Fail**
45	Sc	2	239976	1.16	274900	**87.3**	30	-	120	
74	Ge	1	49345	1.19	197500	**25.0**	30	-	120	**IS Fail**
74	Ge	2	398956	0.78	437500	**91.2**	30	-	120	
74	Ge	3	1701269	1.54	1769000	**96.2**	30	-	120	
103	Rh	2	773072	0.83	847200	**91.3**	30	-	120	
103	Rh	3	1510861	0.77	1574000	**96.0**	30	-	120	
165	Ho	3	3070122	0.64	3040000	**101.0**	30	-	120	
175	Lu	3	3294409	0.82	3395000	**97.0**	30	-	120	
209	Bi	3	6899279	0.45	7067000	**97.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\098SMPL.D\098SMPL.D#
Date Acquired: May 28 2010 08:36 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.019**	ug/l	0.02	4.5	450	6	P	
60	**Ni**	2	**0.044**	ug/l	0.04	57.4	15000	45	P	
63	**Cu**	2	**0.049**	ug/l	0.05	14.6	15000	45	P	
66	**Zn**	2	**0.276**	ug/l	0.28	37.3	15000	45	P	
78	**Se**	2	**-0.183**	ug/l	-0.18	74.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5827561	0.13	6852000	**85.0**	30	-	120	
45	Sc	1	64461	2.20	249000	**25.9**	30	-	120	**IS Fail**
45	Sc	2	241648	1.33	274900	**87.9**	30	-	120	
74	Ge	1	47337	0.35	197500	**24.0**	30	-	120	**IS Fail**
74	Ge	2	403365	1.11	437500	**92.2**	30	-	120	
74	Ge	3	1681381	0.24	1769000	**95.0**	30	-	120	
103	Rh	2	800628	1.78	847200	**94.5**	30	-	120	
103	Rh	3	1527971	1.29	1574000	**97.1**	30	-	120	
165	Ho	3	3017232	0.88	3040000	**99.3**	30	-	120	
175	Lu	3	3324387	1.72	3395000	**97.9**	30	-	120	
209	Bi	3	7101778	0.52	7067000	**100.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\099SMPL.D\099SMPL.D#
Date Acquired: May 28 2010 08:42 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-2-B Vial Number: 3301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.006**	ug/l	0.01	85.9	450	6	P	
60	**Ni**	2	**3.833**	ug/l	3.83	2.9	15000	45	P	
63	**Cu**	2	**0.525**	ug/l	0.53	6.8	15000	45	P	
66	**Zn**	2	**2.167**	ug/l	2.17	7.3	15000	45	P	
78	**Se**	2	**0.077**	ug/l	0.08	806.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5152110	0.19	6852000	**75.2**	30	-	120	
45	Sc	1	56490	2.17	249000	**22.7**	30	-	120	**IS Fail**
45	Sc	2	225012	0.65	274900	**81.9**	30	-	120	
74	Ge	1	42119	2.29	197500	**21.3**	30	-	120	**IS Fail**
74	Ge	2	395014	1.52	437500	**90.3**	30	-	120	
74	Ge	3	1665210	0.80	1769000	**94.1**	30	-	120	
103	Rh	2	705472	1.11	847200	**83.3**	30	-	120	
103	Rh	3	1330874	1.15	1574000	**84.6**	30	-	120	
165	Ho	3	2878352	0.74	3040000	**94.7**	30	-	120	
175	Lu	3	3219350	0.40	3395000	**94.8**	30	-	120	
209	Bi	3	6367684	0.59	7067000	**90.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\100SMPL.D\100SMPL.D#
Date Acquired: May 28 2010 08:48 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-3-B Vial Number: 3302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	100.0	450	6	P	
60	**Ni**	2	**2.229**	ug/l	2.23	2.5	15000	45	P	
63	**Cu**	2	**1.139**	ug/l	1.14	6.7	15000	45	P	
66	**Zn**	2	**1.928**	ug/l	1.93	17.6	15000	45	P	
78	**Se**	2	**-0.103**	ug/l	-0.10	550.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5004333	2.02	6852000	**73.0**	30	-	120	
45	Sc	1	55843	4.34	249000	**22.4**	30	-	120	**IS Fail**
45	Sc	2	229152	1.15	274900	**83.4**	30	-	120	
74	Ge	1	42276	0.57	197500	**21.4**	30	-	120	**IS Fail**
74	Ge	2	404356	0.66	437500	**92.4**	30	-	120	
74	Ge	3	1697402	0.10	1769000	**96.0**	30	-	120	
103	Rh	2	713273	1.43	847200	**84.2**	30	-	120	
103	Rh	3	1341467	0.78	1574000	**85.2**	30	-	120	
165	Ho	3	2980127	1.23	3040000	**98.0**	30	-	120	
175	Lu	3	3263256	0.78	3395000	**96.1**	30	-	120	
209	Bi	3	6485201	0.45	7067000	**91.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\101SMPL.D\101SMPL.D#
Date Acquired: May 28 2010 08:54 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-4-B Vial Number: 3303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.001**	ug/l	0.00	194.3	450	6	P	
60	**Ni**	2	**3.396**	ug/l	3.40	3.7	15000	45	P	
63	**Cu**	2	**2.057**	ug/l	2.06	1.9	15000	45	P	
66	**Zn**	2	**1.724**	ug/l	1.72	14.3	15000	45	P	
78	**Se**	2	**-0.010**	ug/l	-0.01	5252.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5041678	2.29	6852000	**73.6**	30	-	120	
45	Sc	1	55535	1.50	249000	**22.3**	30	-	120	**IS Fail**
45	Sc	2	225980	1.05	274900	**82.2**	30	-	120	
74	Ge	1	41467	2.45	197500	**21.0**	30	-	120	**IS Fail**
74	Ge	2	399803	0.68	437500	**91.4**	30	-	120	
74	Ge	3	1672606	0.70	1769000	**94.6**	30	-	120	
103	Rh	2	718820	1.48	847200	**84.8**	30	-	120	
103	Rh	3	1361847	1.24	1574000	**86.5**	30	-	120	
165	Ho	3	2950973	0.51	3040000	**97.1**	30	-	120	
175	Lu	3	3263056	0.65	3395000	**96.1**	30	-	120	
209	Bi	3	6478897	0.63	7067000	**91.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\102SMPL.D\102SMPL.D#
Date Acquired: May 28 2010 09:01 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-5-B Vial Number: 3304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.001**	ug/l	0.00	265.2	450	6	P	
60	**Ni**	2	**3.482**	ug/l	3.48	1.6	15000	45	P	
63	**Cu**	2	**1.550**	ug/l	1.55	10.3	15000	45	P	
66	**Zn**	2	**1.362**	ug/l	1.36	15.0	15000	45	P	
78	**Se**	2	**-0.499**	ug/l	-0.50	52.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4816418	0.91	6852000	**70.3**	30	-	120	
45	Sc	1	54441	2.19	249000	**21.9**	30	-	120	**IS Fail**
45	Sc	2	219701	1.78	274900	**79.9**	30	-	120	
74	Ge	1	40456	2.71	197500	**20.5**	30	-	120	**IS Fail**
74	Ge	2	388968	1.94	437500	**88.9**	30	-	120	
74	Ge	3	1632186	0.96	1769000	**92.3**	30	-	120	
103	Rh	2	706328	1.24	847200	**83.4**	30	-	120	
103	Rh	3	1315850	1.62	1574000	**83.6**	30	-	120	
165	Ho	3	2920361	0.73	3040000	**96.1**	30	-	120	
175	Lu	3	3245035	0.89	3395000	**95.6**	30	-	120	
209	Bi	3	6527499	0.83	7067000	**92.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\103SMPL.D\103SMPL.D#
Date Acquired: May 28 2010 09:07 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-6-B Vial Number: 3305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	147.6	450	6	P	
60	**Ni**	2	**0.908**	ug/l	0.91	7.0	15000	45	P	
63	**Cu**	2	**0.332**	ug/l	0.33	13.2	15000	45	P	
66	**Zn**	2	**1.362**	ug/l	1.36	17.7	15000	45	P	
78	**Se**	2	**0.171**	ug/l	0.17	426.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4845485	1.30	6852000	**70.7**	30	-	120	
45	Sc	1	54079	0.38	249000	**21.7**	30	-	120	**IS Fail**
45	Sc	2	220713	1.42	274900	**80.3**	30	-	120	
74	Ge	1	40366	1.21	197500	**20.4**	30	-	120	**IS Fail**
74	Ge	2	392093	0.33	437500	**89.6**	30	-	120	
74	Ge	3	1636421	0.36	1769000	**92.5**	30	-	120	
103	Rh	2	699937	0.61	847200	**82.6**	30	-	120	
103	Rh	3	1308757	1.25	1574000	**83.1**	30	-	120	
165	Ho	3	2940713	0.19	3040000	**96.7**	30	-	120	
175	Lu	3	3251944	0.59	3395000	**95.8**	30	-	120	
209	Bi	3	6412341	1.06	7067000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\104SMPL.D\104SMPL.D#
Date Acquired: May 28 2010 09:13 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19067-D-7-B Vial Number: 3306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.001**	ug/l	0.00	42.0	450	6	P	
60	**Ni**	2	**1.677**	ug/l	1.68	3.6	15000	45	P	
63	**Cu**	2	**0.571**	ug/l	0.57	5.8	15000	45	P	
66	**Zn**	2	**1.998**	ug/l	2.00	1.9	15000	45	P	
78	**Se**	2	**0.266**	ug/l	0.27	94.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4668144	1.26	6852000	**68.1**	30	-	120	
45	Sc	1	55596	0.10	249000	**22.3**	30	-	120	**IS Fail**
45	Sc	2	218601	0.58	274900	**79.5**	30	-	120	
74	Ge	1	41550	0.76	197500	**21.0**	30	-	120	**IS Fail**
74	Ge	2	388162	0.62	437500	**88.7**	30	-	120	
74	Ge	3	1618009	0.22	1769000	**91.5**	30	-	120	
103	Rh	2	692632	0.83	847200	**81.8**	30	-	120	
103	Rh	3	1287240	3.01	1574000	**81.8**	30	-	120	
165	Ho	3	2904288	0.28	3040000	**95.5**	30	-	120	
175	Lu	3	3217416	1.09	3395000	**94.8**	30	-	120	
209	Bi	3	6409716	0.35	7067000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\105SMPL.D\105SMPL.D#
Date Acquired: May 28 2010 09:19 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19439-E-1-A Vial Number: 3307
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.013**	ug/l	0.07	15.1	450	6	P	
60	**Ni**	2	**1.084**	ug/l	5.42	6.0	15000	45	P	
63	**Cu**	2	**1.076**	ug/l	5.38	8.9	15000	45	P	
66	**Zn**	2	**1.440**	ug/l	7.20	8.2	15000	45	P	
78	**Se**	2	**0.445**	ug/l	2.22	88.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5434473	0.86	6852000	**79.3**	30	-	120	
45	Sc	1	62803	1.83	249000	**25.2**	30	-	120	**IS Fail**
45	Sc	2	232699	0.79	274900	**84.6**	30	-	120	
74	Ge	1	45343	0.38	197500	**23.0**	30	-	120	**IS Fail**
74	Ge	2	385882	0.72	437500	**88.2**	30	-	120	
74	Ge	3	1646495	0.55	1769000	**93.1**	30	-	120	
103	Rh	2	731534	1.12	847200	**86.3**	30	-	120	
103	Rh	3	1411521	0.40	1574000	**89.7**	30	-	120	
165	Ho	3	3028081	0.74	3040000	**99.6**	30	-	120	
175	Lu	3	3322138	1.36	3395000	**97.9**	30	-	120	
209	Bi	3	6731086	0.55	7067000	**95.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\106SMPL.D\106SMPL.D#
Date Acquired: May 28 2010 09:25 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19439-E-2-A Vial Number: 3308
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.002**	ug/l	-0.01	47.2	450	6	P	
60	**Ni**	2	**0.757**	ug/l	3.78	16.0	15000	45	P	
63	**Cu**	2	**1.066**	ug/l	5.33	6.7	15000	45	P	
66	**Zn**	2	**1.440**	ug/l	7.20	5.5	15000	45	P	
78	**Se**	2	**-0.503**	ug/l	-2.51	0.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5451323	1.03	6852000	**79.6**	30	-	120	
45	Sc	1	63586	1.59	249000	**25.5**	30	-	120	**IS Fail**
45	Sc	2	234450	0.57	274900	**85.3**	30	-	120	
74	Ge	1	46454	2.35	197500	**23.5**	30	-	120	**IS Fail**
74	Ge	2	391023	0.60	437500	**89.4**	30	-	120	
74	Ge	3	1650934	0.51	1769000	**93.3**	30	-	120	
103	Rh	2	745332	0.57	847200	**88.0**	30	-	120	
103	Rh	3	1418023	0.66	1574000	**90.1**	30	-	120	
165	Ho	3	3007006	0.53	3040000	**98.9**	30	-	120	
175	Lu	3	3326155	2.48	3395000	**98.0**	30	-	120	
209	Bi	3	6726980	0.47	7067000	**95.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\107SMPL.D\107SMPL.D#
Date Acquired: May 28 2010 09:31 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-1-A Vial Number: 3309
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.002**	ug/l	-0.01	105.9	450	6	P	
60	**Ni**	2	**0.499**	ug/l	2.50	15.4	15000	45	P	
63	**Cu**	2	**1.021**	ug/l	5.11	1.4	15000	45	P	
66	**Zn**	2	**0.897**	ug/l	4.49	13.5	15000	45	P	
78	**Se**	2	**-0.002**	ug/l	-0.01	16697.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5481596	2.00	6852000	**80.0**	30	-	120	
45	Sc	1	67188	1.35	249000	**27.0**	30	-	120	**IS Fail**
45	Sc	2	238662	0.87	274900	**86.8**	30	-	120	
74	Ge	1	49733	2.32	197500	**25.2**	30	-	120	**IS Fail**
74	Ge	2	395976	1.92	437500	**90.5**	30	-	120	
74	Ge	3	1653137	0.45	1769000	**93.5**	30	-	120	
103	Rh	2	753902	1.29	847200	**89.0**	30	-	120	
103	Rh	3	1444816	1.28	1574000	**91.8**	30	-	120	
165	Ho	3	3075893	0.92	3040000	**101.2**	30	-	120	
175	Lu	3	3349379	0.51	3395000	**98.7**	30	-	120	
209	Bi	3	6728344	0.65	7067000	**95.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\108SMPL.D\108SMPL.D#
Date Acquired: May 28 2010 09:38 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-2-A Vial Number: 3310
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**-0.001**	ug/l	-0.01	101.2	450	6	P	
60	**Ni**	2	**0.985**	ug/l	4.93	1.1	15000	45	P	
63	**Cu**	2	**0.081**	ug/l	0.41	26.6	15000	45	P	
66	**Zn**	2	**0.848**	ug/l	4.24	21.1	15000	45	P	
78	**Se**	2	**0.004**	ug/l	0.02	6509.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5562392	1.91	6852000	**81.2**	30	-	120	
45	Sc	1	66301	1.59	249000	**26.6**	30	-	120	**IS Fail**
45	Sc	2	235691	0.97	274900	**85.7**	30	-	120	
74	Ge	1	49204	2.18	197500	**24.9**	30	-	120	**IS Fail**
74	Ge	2	391990	0.74	437500	**89.6**	30	-	120	
74	Ge	3	1663183	0.60	1769000	**94.0**	30	-	120	
103	Rh	2	755505	1.16	847200	**89.2**	30	-	120	
103	Rh	3	1444637	0.35	1574000	**91.8**	30	-	120	
165	Ho	3	3053073	0.79	3040000	**100.4**	30	-	120	
175	Lu	3	3341236	0.85	3395000	**98.4**	30	-	120	
209	Bi	3	6820470	0.57	7067000	**96.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\109SMPL.D\109SMPL.D#
Date Acquired: May 28 2010 09:44 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.560**	ug/l	49.56	4.7	450	6	P	
60	**Ni**	2	**51.340**	ug/l	51.34	1.7	15000	45	P	
63	**Cu**	2	**51.650**	ug/l	51.65	0.4	15000	45	P	
66	**Zn**	2	**51.730**	ug/l	51.73	3.6	15000	45	P	
78	**Se**	2	**51.600**	ug/l	51.60	5.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5824729	2.22	6852000	**85.0**	30	-	120	
45	Sc	1	65868	1.65	249000	**26.5**	30	-	120	**IS Fail**
45	Sc	2	243193	0.84	274900	**88.5**	30	-	120	
74	Ge	1	48308	3.07	197500	**24.5**	30	-	120	**IS Fail**
74	Ge	2	398358	1.87	437500	**91.1**	30	-	120	
74	Ge	3	1709111	1.19	1769000	**96.6**	30	-	120	
103	Rh	2	776431	1.69	847200	**91.6**	30	-	120	
103	Rh	3	1487346	0.84	1574000	**94.5**	30	-	120	
165	Ho	3	3087663	1.70	3040000	**101.6**	30	-	120	
175	Lu	3	3363561	1.29	3395000	**99.1**	30	-	120	
209	Bi	3	6962340	0.79	7067000	**98.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\110SMPL.D\110SMPL.D#
Date Acquired: May 28 2010 09:50 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.020**	ug/l	0.02	2.3	450	6	P	
60	**Ni**	2	**0.002**	ug/l	0.00	266.7	15000	45	P	
63	**Cu**	2	**0.032**	ug/l	0.03	7.1	15000	45	P	
66	**Zn**	2	**0.197**	ug/l	0.20	33.8	15000	45	P	
78	**Se**	2	**0.134**	ug/l	0.13	112.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5854430	0.53	6852000	**85.4**	30	-	120	
45	Sc	1	68076	2.04	249000	**27.3**	30	-	120	**IS Fail**
45	Sc	2	243318	0.21	274900	**88.5**	30	-	120	
74	Ge	1	48616	1.74	197500	**24.6**	30	-	120	**IS Fail**
74	Ge	2	409530	1.40	437500	**93.6**	30	-	120	
74	Ge	3	1678827	2.28	1769000	**94.9**	30	-	120	
103	Rh	2	801250	0.67	847200	**94.6**	30	-	120	
103	Rh	3	1529793	1.69	1574000	**97.2**	30	-	120	
165	Ho	3	3031955	1.34	3040000	**99.7**	30	-	120	
175	Lu	3	3308800	2.00	3395000	**97.5**	30	-	120	
209	Bi	3	7072805	1.83	7067000	**100.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\111SMPL.D\111SMPL.D#
Date Acquired: May 28 2010 09:56 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-3-A Vial Number: 3401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.016**	ug/l	0.08	7.0	450	6	P	
60	**Ni**	2	**0.421**	ug/l	2.10	20.6	15000	45	P	
63	**Cu**	2	**0.680**	ug/l	3.40	5.3	15000	45	P	
66	**Zn**	2	**0.916**	ug/l	4.58	3.5	15000	45	P	
78	**Se**	2	**0.324**	ug/l	1.62	116.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5618715	1.26	6852000	**82.0**	30	-	120	
45	Sc	1	65747	1.85	249000	**26.4**	30	-	120	**IS Fail**
45	Sc	2	239501	0.59	274900	**87.1**	30	-	120	
74	Ge	1	47568	0.97	197500	**24.1**	30	-	120	**IS Fail**
74	Ge	2	398051	1.07	437500	**91.0**	30	-	120	
74	Ge	3	1677751	0.47	1769000	**94.8**	30	-	120	
103	Rh	2	749571	1.87	847200	**88.5**	30	-	120	
103	Rh	3	1456739	0.42	1574000	**92.6**	30	-	120	
165	Ho	3	3059632	2.65	3040000	**100.6**	30	-	120	
175	Lu	3	3358443	0.98	3395000	**98.9**	30	-	120	
209	Bi	3	6773270	0.52	7067000	**95.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\112SMPL.D\112SMPL.D#
Date Acquired: May 28 2010 10:02 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19461-E-4-A Vial Number: 3402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.000**	ug/l	0.00	940.7	450	6	P	
60	**Ni**	2	**5.341**	ug/l	26.71	5.2	15000	45	P	
63	**Cu**	2	**1.873**	ug/l	9.37	4.3	15000	45	P	
66	**Zn**	2	**1.459**	ug/l	7.30	18.7	15000	45	P	
78	**Se**	2	**0.090**	ug/l	0.45	911.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5522131	0.94	6852000	**80.6**	30	-	120	
45	Sc	1	64655	2.39	249000	**26.0**	30	-	120	**IS Fail**
45	Sc	2	237353	1.22	274900	**86.3**	30	-	120	
74	Ge	1	47431	1.32	197500	**24.0**	30	-	120	**IS Fail**
74	Ge	2	393788	1.72	437500	**90.0**	30	-	120	
74	Ge	3	1656428	0.42	1769000	**93.6**	30	-	120	
103	Rh	2	747460	1.76	847200	**88.2**	30	-	120	
103	Rh	3	1419091	1.89	1574000	**90.2**	30	-	120	
165	Ho	3	3033541	1.26	3040000	**99.8**	30	-	120	
175	Lu	3	3321261	0.97	3395000	**97.8**	30	-	120	
209	Bi	3	6642358	1.28	7067000	**94.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\113SMPL.D\113SMPL.D#
Date Acquired: May 28 2010 10:08 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19402-H-2-A Vial Number: 3403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.00	181.9	450	6	P	
60	**Ni**	2	**0.771**	ug/l	3.85	12.1	15000	45	P	
63	**Cu**	2	**0.567**	ug/l	2.83	6.9	15000	45	P	
66	**Zn**	2	**3.090**	ug/l	15.45	17.4	15000	45	P	
78	**Se**	2	**0.151**	ug/l	0.75	501.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5625774	1.70	6852000	**82.1**	30	-	120	
45	Sc	1	65011	0.76	249000	**26.1**	30	-	120	**IS Fail**
45	Sc	2	238586	1.14	274900	**86.8**	30	-	120	
74	Ge	1	47588	1.17	197500	**24.1**	30	-	120	**IS Fail**
74	Ge	2	403067	1.80	437500	**92.1**	30	-	120	
74	Ge	3	1696085	0.93	1769000	**95.9**	30	-	120	
103	Rh	2	771616	1.43	847200	**91.1**	30	-	120	
103	Rh	3	1478359	0.99	1574000	**93.9**	30	-	120	
165	Ho	3	3039199	1.48	3040000	**100.0**	30	-	120	
175	Lu	3	3335995	1.18	3395000	**98.3**	30	-	120	
209	Bi	3	6857535	0.84	7067000	**97.0**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\114SMPL.D\114SMPL.D#
Date Acquired: May 28 2010 10:14 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19402-H-3-A Vial Number: 3404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **5.00** Final Dil Factor: **5.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.000**	ug/l	0.00	447.9	450	6	P	
60	**Ni**	2	**0.624**	ug/l	3.12	22.8	15000	45	P	
63	**Cu**	2	**0.256**	ug/l	1.28	12.5	15000	45	P	
66	**Zn**	2	**2.736**	ug/l	13.68	5.7	15000	45	P	
78	**Se**	2	**-0.260**	ug/l	-1.30	192.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5542502	2.76	6852000	**80.9**	30	-	120	
45	Sc	1	66089	3.33	249000	**26.5**	30	-	120	**IS Fail**
45	Sc	2	243453	1.22	274900	**88.6**	30	-	120	
74	Ge	1	48943	0.82	197500	**24.8**	30	-	120	**IS Fail**
74	Ge	2	402999	1.22	437500	**92.1**	30	-	120	
74	Ge	3	1700050	0.65	1769000	**96.1**	30	-	120	
103	Rh	2	774620	1.18	847200	**91.4**	30	-	120	
103	Rh	3	1472994	0.73	1574000	**93.6**	30	-	120	
165	Ho	3	3089475	0.21	3040000	**101.6**	30	-	120	
175	Lu	3	3309501	0.44	3395000	**97.5**	30	-	120	
209	Bi	3	6788619	1.98	7067000	**96.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\115SMPL.D\115SMPL.D#
Date Acquired: May 28 2010 10:21 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**50.170**	ug/l	50.17	1.0	450	6	P	
60	**Ni**	2	**51.600**	ug/l	51.60	2.3	15000	45	P	
63	**Cu**	2	**52.260**	ug/l	52.26	0.8	15000	45	P	
66	**Zn**	2	**51.310**	ug/l	51.31	1.8	15000	45	P	
78	**Se**	2	**49.960**	ug/l	49.96	5.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5919240	0.79	6852000	**86.4**	30	-	120	
45	Sc	1	69956	3.04	249000	**28.1**	30	-	120	**IS Fail**
45	Sc	2	244164	0.90	274900	**88.8**	30	-	120	
74	Ge	1	51343	0.82	197500	**26.0**	30	-	120	**IS Fail**
74	Ge	2	404126	0.41	437500	**92.4**	30	-	120	
74	Ge	3	1719658	0.72	1769000	**97.2**	30	-	120	
103	Rh	2	778294	1.44	847200	**91.9**	30	-	120	
103	Rh	3	1517087	0.65	1574000	**96.4**	30	-	120	
165	Ho	3	3061454	1.03	3040000	**100.7**	30	-	120	
175	Lu	3	3344195	1.08	3395000	**98.5**	30	-	120	
209	Bi	3	6827206	0.48	7067000	**96.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\116SMPL.D\116SMPL.D#
Date Acquired: May 28 2010 10:27 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.015**	ug/l	0.02	45.2	450	6	P	
60	**Ni**	2	**0.018**	ug/l	0.02	259.1	15000	45	P	
63	**Cu**	2	**0.052**	ug/l	0.05	4.0	15000	45	P	
66	**Zn**	2	**0.238**	ug/l	0.24	46.3	15000	45	P	
78	**Se**	2	**-0.355**	ug/l	-0.35	140.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6045642	1.67	6852000	**88.2**	30	-	120	
45	Sc	1	71095	1.64	249000	**28.6**	30	-	120	**IS Fail**
45	Sc	2	248217	0.40	274900	**90.3**	30	-	120	
74	Ge	1	51641	1.04	197500	**26.1**	30	-	120	**IS Fail**
74	Ge	2	409625	1.05	437500	**93.6**	30	-	120	
74	Ge	3	1722494	1.76	1769000	**97.4**	30	-	120	
103	Rh	2	808113	0.94	847200	**95.4**	30	-	120	
103	Rh	3	1531701	1.57	1574000	**97.3**	30	-	120	
165	Ho	3	3045201	1.06	3040000	**100.2**	30	-	120	
175	Lu	3	3339911	1.54	3395000	**98.4**	30	-	120	
209	Bi	3	7048367	0.85	7067000	**99.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\117SMPL.D\117SMPL.D#
Date Acquired: May 28 2010 10:33 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64536/21-A Vial Number: 3501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.05	22.9	450	6	P	
60	**Ni**	2	**0.066**	ug/l	0.66	83.4	15000	45	P	
63	**Cu**	2	**0.033**	ug/l	0.33	94.8	15000	45	P	
66	**Zn**	2	**-0.056**	ug/l	-0.56	149.2	15000	45	P	
78	**Se**	2	**-0.515**	ug/l	-5.15	46.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5845516	0.95	6852000	**85.3**	30	-	120	
45	Sc	1	70807	0.62	249000	**28.4**	30	-	120	**IS Fail**
45	Sc	2	246188	1.13	274900	**89.6**	30	-	120	
74	Ge	1	52431	1.23	197500	**26.5**	30	-	120	**IS Fail**
74	Ge	2	405318	2.00	437500	**92.6**	30	-	120	
74	Ge	3	1695198	0.50	1769000	**95.8**	30	-	120	
103	Rh	2	807657	1.93	847200	**95.3**	30	-	120	
103	Rh	3	1521356	0.91	1574000	**96.7**	30	-	120	
165	Ho	3	3064001	0.16	3040000	**100.8**	30	-	120	
175	Lu	3	3313780	1.55	3395000	**97.6**	30	-	120	
209	Bi	3	7004011	1.86	7067000	**99.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\118SMPL.D\118SMPL.D#
Date Acquired: May 28 2010 10:39 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-B SD Vial Number: 3502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.105**	ug/l	5.25	12.2	450	6	P	
60	**Ni**	2	**336.400**	ug/l	16,820.00	1.2	15000	45	P	
63	**Cu**	2	**24.180**	ug/l	1,209.00	1.6	15000	45	P	
66	**Zn**	2	**358.900**	ug/l	17,945.00	1.2	15000	45	P	
78	**Se**	2	**-0.073**	ug/l	-3.66	724.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5802205	2.34	6852000	**84.7**	30	-	120	
45	Sc	1	68462	1.43	249000	**27.5**	30	-	120	**IS Fail**
45	Sc	2	241081	0.42	274900	**87.7**	30	-	120	
74	Ge	1	48445	2.05	197500	**24.5**	30	-	120	**IS Fail**
74	Ge	2	386027	1.10	437500	**88.2**	30	-	120	
74	Ge	3	1661868	0.19	1769000	**93.9**	30	-	120	
103	Rh	2	752356	1.91	847200	**88.8**	30	-	120	
103	Rh	3	1464264	2.07	1574000	**93.0**	30	-	120	
165	Ho	3	2989697	1.07	3040000	**98.3**	30	-	120	
175	Lu	3	3255579	0.30	3395000	**95.9**	30	-	120	
209	Bi	3	6780714	1.00	7067000	**95.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\119SMPL.D\119SMPL.D#
Date Acquired: May 28 2010 10:45 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-B Vial Number: 3503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.530**	ug/l	5.30	3.8	450	6	P	
60	**Ni**	2	**1469.000**	ug/l	14,690.00	1.2	15000	45	A	
63	**Cu**	2	**107.700**	ug/l	1,077.00	0.5	15000	45	P	
66	**Zn**	2	**1584.000**	ug/l	15,840.00	1.0	15000	45	P	
78	**Se**	2	**0.487**	ug/l	4.87	194.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4914590	0.66	6852000	**71.7**	30	-	120	
45	Sc	1	65845	1.69	249000	**26.4**	30	-	120	**IS Fail**
45	Sc	2	240024	2.29	274900	**87.3**	30	-	120	
74	Ge	1	39329	3.21	197500	**19.9**	30	-	120	**IS Fail**
74	Ge	2	350161	2.59	437500	**80.0**	30	-	120	
74	Ge	3	1485563	0.94	1769000	**84.0**	30	-	120	
103	Rh	2	680593	2.23	847200	**80.3**	30	-	120	
103	Rh	3	1299409	1.06	1574000	**82.6**	30	-	120	
165	Ho	3	2849633	0.52	3040000	**93.7**	30	-	120	
175	Lu	3	3141076	1.23	3395000	**92.5**	30	-	120	
209	Bi	3	6261793	1.24	7067000	**88.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\120SMPL.D\120SMPL.D#
Date Acquired: May 28 2010 10:51 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-C DU Vial Number: 3504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.532**	ug/l	5.32	5.8	450	6	P	
60	**Ni**	2	**1518.000**	ug/l	15,180.00	0.7	15000	45	A	
63	**Cu**	2	**111.200**	ug/l	1,112.00	0.7	15000	45	P	
66	**Zn**	2	**1658.000**	ug/l	16,580.00	1.0	15000	45	P	
78	**Se**	2	**1.011**	ug/l	10.11	47.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4783902	0.17	6852000	**69.8**	30	-	120	
45	Sc	1	67346	3.15	249000	**27.0**	30	-	120	**IS Fail**
45	Sc	2	229653	2.06	274900	**83.5**	30	-	120	
74	Ge	1	41376	1.42	197500	**20.9**	30	-	120	**IS Fail**
74	Ge	2	336247	1.44	437500	**76.9**	30	-	120	
74	Ge	3	1424916	1.60	1769000	**80.5**	30	-	120	
103	Rh	2	653009	1.76	847200	**77.1**	30	-	120	
103	Rh	3	1271986	2.62	1574000	**80.8**	30	-	120	
165	Ho	3	2771152	1.28	3040000	**91.2**	30	-	120	
175	Lu	3	3077024	0.82	3395000	**90.6**	30	-	120	
209	Bi	3	6131468	0.94	7067000	**86.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\121SMPL.D\121SMPL.D#
Date Acquired: May 28 2010 10:57 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-D MS Vial Number: 3505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.951**	ug/l	97.55	4.5	450	6	P	
60	**Ni**	2	**315.200**	ug/l	15,760.00	0.7	15000	45	P	
63	**Cu**	2	**31.520**	ug/l	1,576.00	1.1	15000	45	P	
66	**Zn**	2	**335.500**	ug/l	16,775.00	0.8	15000	45	P	
78	**Se**	2	**76.800**	ug/l	3,840.00	6.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5457832	0.81	6852000	**79.7**	30	-	120	
45	Sc	1	61178	2.28	249000	**24.6**	30	-	120	**IS Fail**
45	Sc	2	224615	0.32	274900	**81.7**	30	-	120	
74	Ge	1	42493	3.22	197500	**21.5**	30	-	120	**IS Fail**
74	Ge	2	360276	0.66	437500	**82.3**	30	-	120	
74	Ge	3	1532228	1.61	1769000	**86.6**	30	-	120	
103	Rh	2	720171	1.20	847200	**85.0**	30	-	120	
103	Rh	3	1369214	0.96	1574000	**87.0**	30	-	120	
165	Ho	3	2893812	1.33	3040000	**95.2**	30	-	120	
175	Lu	3	3204103	1.29	3395000	**94.4**	30	-	120	
209	Bi	3	6616183	0.75	7067000	**93.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\122SMPL.D\122SMPL.D#
Date Acquired: May 28 2010 11:03 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-E MSD Vial Number: 3506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.081**	ug/l	104.05	3.1	450	6	P	
60	**Ni**	2	**326.000**	ug/l	16,300.00	0.9	15000	45	P	
63	**Cu**	2	**32.520**	ug/l	1,626.00	0.2	15000	45	P	
66	**Zn**	2	**347.400**	ug/l	17,370.00	0.8	15000	45	P	
78	**Se**	2	**78.640**	ug/l	3,932.00	1.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5409905	2.71	6852000	**79.0**	30	-	120	
45	Sc	1	72624	2.60	249000	**29.2**	30	-	120	**IS Fail**
45	Sc	2	225670	1.30	274900	**82.1**	30	-	120	
74	Ge	1	52086	1.82	197500	**26.4**	30	-	120	**IS Fail**
74	Ge	2	364894	0.97	437500	**83.4**	30	-	120	
74	Ge	3	1555720	0.67	1769000	**87.9**	30	-	120	
103	Rh	2	720024	1.32	847200	**85.0**	30	-	120	
103	Rh	3	1385377	0.99	1574000	**88.0**	30	-	120	
165	Ho	3	2914033	1.29	3040000	**95.9**	30	-	120	
175	Lu	3	3247384	0.68	3395000	**95.7**	30	-	120	
209	Bi	3	6610249	0.44	7067000	**93.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\123SMPL.D\123SMPL.D#
Date Acquired: May 28 2010 11:09 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-14-B PDS Vial Number: 3507
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**2.060**	ug/l	103.00	2.8	450	6	P	
60	**Ni**	2	**326.800**	ug/l	16,340.00	0.5	15000	45	P	
63	**Cu**	2	**32.610**	ug/l	1,630.50	0.9	15000	45	P	
66	**Zn**	2	**346.000**	ug/l	17,300.00	1.6	15000	45	P	
78	**Se**	2	**81.940**	ug/l	4,097.00	4.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5430857	0.71	6852000	**79.3**	30	-	120	
45	Sc	1	74606	3.91	249000	**30.0**	30	-	120	**IS Fail**
45	Sc	2	225815	1.03	274900	**82.1**	30	-	120	
74	Ge	1	53515	2.44	197500	**27.1**	30	-	120	**IS Fail**
74	Ge	2	364111	1.77	437500	**83.2**	30	-	120	
74	Ge	3	1558938	1.10	1769000	**88.1**	30	-	120	
103	Rh	2	726199	1.30	847200	**85.7**	30	-	120	
103	Rh	3	1383933	0.63	1574000	**87.9**	30	-	120	
165	Ho	3	2913560	1.05	3040000	**95.8**	30	-	120	
175	Lu	3	3213142	0.71	3395000	**94.6**	30	-	120	
209	Bi	3	6622826	0.78	7067000	**93.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\124SMPL.D\124SMPL.D#
Date Acquired: May 28 2010 11:16 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64536/22-A Vial Number: 3508
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.914**	ug/l	95.70	3.4	450	6	P	
60	**Ni**	2	**20.480**	ug/l	1,024.00	1.2	15000	45	P	
63	**Cu**	2	**10.690**	ug/l	534.50	0.3	15000	45	P	
66	**Zn**	2	**20.580**	ug/l	1,029.00	1.6	15000	45	P	
78	**Se**	2	**76.870**	ug/l	3,843.50	9.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5458724	0.85	6852000	**79.7**	30	-	120	
45	Sc	1	72617	2.26	249000	**29.2**	30	-	120	**IS Fail**
45	Sc	2	224385	0.55	274900	**81.6**	30	-	120	
74	Ge	1	52435	1.74	197500	**26.5**	30	-	120	**IS Fail**
74	Ge	2	373413	1.07	437500	**85.4**	30	-	120	
74	Ge	3	1562105	2.31	1769000	**88.3**	30	-	120	
103	Rh	2	747577	1.56	847200	**88.2**	30	-	120	
103	Rh	3	1412368	1.71	1574000	**89.7**	30	-	120	
165	Ho	3	2938623	1.92	3040000	**96.7**	30	-	120	
175	Lu	3	3232898	0.83	3395000	**95.2**	30	-	120	
209	Bi	3	6773432	0.85	7067000	**95.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\125SMPL.D\125SMPL.D#
Date Acquired: May 28 2010 11:22 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64536/23-A Vial Number: 3509
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.894**	ug/l	94.70	2.6	450	6	P	
60	**Ni**	2	**20.540**	ug/l	1,027.00	1.7	15000	45	P	
63	**Cu**	2	**10.430**	ug/l	521.50	1.3	15000	45	P	
66	**Zn**	2	**21.540**	ug/l	1,077.00	2.1	15000	45	P	
78	**Se**	2	**82.130**	ug/l	4,106.50	3.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5484911	2.03	6852000	**80.0**	30	-	120	
45	Sc	1	72618	1.15	249000	**29.2**	30	-	120	**IS Fail**
45	Sc	2	224502	1.38	274900	**81.7**	30	-	120	
74	Ge	1	53067	2.63	197500	**26.9**	30	-	120	**IS Fail**
74	Ge	2	373697	1.83	437500	**85.4**	30	-	120	
74	Ge	3	1578530	1.01	1769000	**89.2**	30	-	120	
103	Rh	2	748060	0.89	847200	**88.3**	30	-	120	
103	Rh	3	1431317	1.63	1574000	**90.9**	30	-	120	
165	Ho	3	2933229	0.91	3040000	**96.5**	30	-	120	
175	Lu	3	3249771	1.06	3395000	**95.7**	30	-	120	
209	Bi	3	6849750	0.93	7067000	**96.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\126SMPL.D\126SMPL.D#
Date Acquired: May 28 2010 11:28 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64536/24-A Vial Number: 3510
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**89.380**	ug/l	1,787.60	0.7	450	6	P	
60	**Ni**	2	**101.600**	ug/l	2,032.00	1.5	15000	45	P	
63	**Cu**	2	**39.350**	ug/l	787.00	2.0	15000	45	P	
66	**Zn**	2	**206.600**	ug/l	4,132.00	0.5	15000	45	P	
78	**Se**	2	**82.680**	ug/l	1,653.60	8.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5574613	1.07	6852000	**81.4**	30	-	120	
45	Sc	1	78114	0.69	249000	**31.4**	30	-	120	
45	Sc	2	227190	1.55	274900	**82.6**	30	-	120	
74	Ge	1	58387	2.09	197500	**29.6**	30	-	120	**IS Fail**
74	Ge	2	369830	0.93	437500	**84.5**	30	-	120	
74	Ge	3	1604421	0.80	1769000	**90.7**	30	-	120	
103	Rh	2	727482	0.86	847200	**85.9**	30	-	120	
103	Rh	3	1402644	1.17	1574000	**89.1**	30	-	120	
165	Ho	3	2915255	0.47	3040000	**95.9**	30	-	120	
175	Lu	3	3220932	0.37	3395000	**94.9**	30	-	120	
209	Bi	3	6666783	0.93	7067000	**94.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\127SMPL.D\127SMPL.D#
Date Acquired: May 28 2010 11:34 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**49.230**	ug/l	49.23	0.9	450	6	P	
60	**Ni**	2	**50.700**	ug/l	50.70	0.6	15000	45	P	
63	**Cu**	2	**51.820**	ug/l	51.82	1.2	15000	45	P	
66	**Zn**	2	**50.540**	ug/l	50.54	2.4	15000	45	P	
78	**Se**	2	**48.340**	ug/l	48.34	4.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5661591	0.95	6852000	**82.6**	30	-	120	
45	Sc	1	79177	1.64	249000	**31.8**	30	-	120	
45	Sc	2	229938	0.76	274900	**83.6**	30	-	120	
74	Ge	1	59723	0.88	197500	**30.2**	30	-	120	
74	Ge	2	377680	0.36	437500	**86.3**	30	-	120	
74	Ge	3	1638736	0.55	1769000	**92.6**	30	-	120	
103	Rh	2	737839	0.49	847200	**87.1**	30	-	120	
103	Rh	3	1434719	1.13	1574000	**91.2**	30	-	120	
165	Ho	3	2954596	0.97	3040000	**97.2**	30	-	120	
175	Lu	3	3229872	1.13	3395000	**95.1**	30	-	120	
209	Bi	3	6632738	0.96	7067000	**93.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\128SMPL.D\128SMPL.D#
Date Acquired: May 28 2010 11:41 pm Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.032**	ug/l	0.03	10.8	450	6	P	
60	**Ni**	2	**0.041**	ug/l	0.04	57.2	15000	45	P	
63	**Cu**	2	**0.065**	ug/l	0.07	20.3	15000	45	P	
66	**Zn**	2	**0.165**	ug/l	0.16	44.3	15000	45	P	
78	**Se**	2	**-0.081**	ug/l	-0.08	351.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5568373	1.59	6852000	**81.3**	30	-	120	
45	Sc	1	96814	20.63	249000	**38.9**	30	-	120	
45	Sc	2	235647	2.79	274900	**85.7**	30	-	120	
74	Ge	1	69941	16.66	197500	**35.4**	30	-	120	
74	Ge	2	390438	1.41	437500	**89.2**	30	-	120	
74	Ge	3	1617847	0.61	1769000	**91.5**	30	-	120	
103	Rh	2	781424	2.17	847200	**92.2**	30	-	120	
103	Rh	3	1460952	1.74	1574000	**92.8**	30	-	120	
165	Ho	3	2950218	0.64	3040000	**97.0**	30	-	120	
175	Lu	3	3245992	0.74	3395000	**95.6**	30	-	120	
209	Bi	3	6885985	0.64	7067000	**97.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Pass**

0 :Element Failures **0** :Max. Number of Failures Allowed
0 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\129SMPL.D\129SMPL.D#
Date Acquired: May 28 2010 11:47 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-15-B Vial Number: 4101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.171**	ug/l	11.71	2.5	450	6	P	
60	**Ni**	2	**870.100**	ug/l	8,701.00	0.4	15000	45	P	
63	**Cu**	2	**78.730**	ug/l	787.30	1.1	15000	45	P	
66	**Zn**	2	**169.100**	ug/l	1,691.00	1.5	15000	45	P	
78	**Se**	2	**0.878**	ug/l	8.78	94.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5286376	0.89	6852000	**77.2**	30	-	120	
45	Sc	1	84155	1.09	249000	**33.8**	30	-	120	
45	Sc	2	242991	1.53	274900	**88.4**	30	-	120	
74	Ge	1	55983	2.41	197500	**28.3**	30	-	120	**IS Fail**
74	Ge	2	366225	1.33	437500	**83.7**	30	-	120	
74	Ge	3	1581971	0.73	1769000	**89.4**	30	-	120	
103	Rh	2	708552	0.97	847200	**83.6**	30	-	120	
103	Rh	3	1381642	0.82	1574000	**87.8**	30	-	120	
165	Ho	3	2945730	0.75	3040000	**96.9**	30	-	120	
175	Lu	3	3215444	0.62	3395000	**94.7**	30	-	120	
209	Bi	3	6355659	0.62	7067000	**89.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\130SMPL.D\130SMPL.D#
Date Acquired: May 28 2010 11:53 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-16-B Vial Number: 4102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.050**	ug/l	10.50	1.7	450	6	P	
60	**Ni**	2	**402.800**	ug/l	4,028.00	0.9	15000	45	P	
63	**Cu**	2	**105.000**	ug/l	1,050.00	0.8	15000	45	P	
66	**Zn**	2	**215.300**	ug/l	2,153.00	0.7	15000	45	P	
78	**Se**	2	**0.790**	ug/l	7.90	81.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5543718	0.38	6852000	**80.9**	30	-	120	
45	Sc	1	74127	0.96	249000	**29.8**	30	-	120	**IS Fail**
45	Sc	2	240504	0.71	274900	**87.5**	30	-	120	
74	Ge	1	49154	1.35	197500	**24.9**	30	-	120	**IS Fail**
74	Ge	2	365324	1.28	437500	**83.5**	30	-	120	
74	Ge	3	1540934	1.44	1769000	**87.1**	30	-	120	
103	Rh	2	705193	0.63	847200	**83.2**	30	-	120	
103	Rh	3	1344353	0.10	1574000	**85.4**	30	-	120	
165	Ho	3	2885416	1.24	3040000	**94.9**	30	-	120	
175	Lu	3	3176780	1.26	3395000	**93.6**	30	-	120	
209	Bi	3	6342232	0.54	7067000	**89.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\131SMPL.D\131SMPL.D#
Date Acquired: May 28 2010 11:59 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-17-B Vial Number: 4103
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.030**	ug/l	10.30	3.3	450	6	P	
60	**Ni**	2	**2321.000**	ug/l	23,210.00	0.6	15000	45	A	
63	**Cu**	2	**69.750**	ug/l	697.50	0.5	15000	45	P	
66	**Zn**	2	**193.600**	ug/l	1,936.00	1.5	15000	45	P	
78	**Se**	2	**1.436**	ug/l	14.36	37.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5535176	0.40	6852000	**80.8**	30	-	120	
45	Sc	1	65446	2.17	249000	**26.3**	30	-	120	**IS Fail**
45	Sc	2	245973	0.15	274900	**89.5**	30	-	120	
74	Ge	1	42242	3.59	197500	**21.4**	30	-	120	**IS Fail**
74	Ge	2	362287	1.11	437500	**82.8**	30	-	120	
74	Ge	3	1629141	1.31	1769000	**92.1**	30	-	120	
103	Rh	2	689274	1.20	847200	**81.4**	30	-	120	
103	Rh	3	1394395	1.08	1574000	**88.6**	30	-	120	
165	Ho	3	2955083	1.06	3040000	**97.2**	30	-	120	
175	Lu	3	3228986	0.81	3395000	**95.1**	30	-	120	
209	Bi	3	6207614	0.31	7067000	**87.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\132SMPL.D\132SMPL.D#
Date Acquired: May 29 2010 12:05 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-18-B Vial Number: 4104
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.331**	ug/l	13.31	2.0	450	6	P	
60	**Ni**	2	**911.100**	ug/l	9,111.00	0.1	15000	45	P	
63	**Cu**	2	**139.600**	ug/l	1,396.00	0.5	15000	45	P	
66	**Zn**	2	**168.800**	ug/l	1,688.00	1.8	15000	45	P	
78	**Se**	2	**0.728**	ug/l	7.28	149.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5798750	1.10	6852000	**84.6**	30	-	120	
45	Sc	1	52700	1.25	249000	**21.2**	30	-	120	**IS Fail**
45	Sc	2	255908	0.81	274900	**93.1**	30	-	120	
74	Ge	1	33024	3.10	197500	**16.7**	30	-	120	**IS Fail**
74	Ge	2	376607	1.38	437500	**86.1**	30	-	120	
74	Ge	3	1625465	0.74	1769000	**91.9**	30	-	120	
103	Rh	2	726022	2.60	847200	**85.7**	30	-	120	
103	Rh	3	1425626	1.49	1574000	**90.6**	30	-	120	
165	Ho	3	2974265	0.18	3040000	**97.8**	30	-	120	
175	Lu	3	3257094	0.57	3395000	**95.9**	30	-	120	
209	Bi	3	6386229	1.04	7067000	**90.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\133SMPL.D\133SMPL.D#
Date Acquired: May 29 2010 12:11 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-19-B Vial Number: 4105
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.030**	ug/l	10.30	0.4	450	6	P	
60	**Ni**	2	**1096.000**	ug/l	10,960.00	0.9	15000	45	P	
63	**Cu**	2	**90.350**	ug/l	903.50	0.9	15000	45	P	
66	**Zn**	2	**223.000**	ug/l	2,230.00	1.2	15000	45	P	
78	**Se**	2	**1.124**	ug/l	11.24	71.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5841388	2.00	6852000	**85.3**	30	-	120	
45	Sc	1	55930	2.23	249000	**22.5**	30	-	120	**IS Fail**
45	Sc	2	246075	0.77	274900	**89.5**	30	-	120	
74	Ge	1	35675	3.80	197500	**18.1**	30	-	120	**IS Fail**
74	Ge	2	369134	1.12	437500	**84.4**	30	-	120	
74	Ge	3	1618002	1.00	1769000	**91.5**	30	-	120	
103	Rh	2	717071	2.08	847200	**84.6**	30	-	120	
103	Rh	3	1415965	0.41	1574000	**90.0**	30	-	120	
165	Ho	3	2976549	1.50	3040000	**97.9**	30	-	120	
175	Lu	3	3204183	1.29	3395000	**94.4**	30	-	120	
209	Bi	3	6381395	0.28	7067000	**90.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\134SMPL.D\134SMPL.D#
Date Acquired: May 29 2010 12:17 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-20-B Vial Number: 4106
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.776**	ug/l	7.76	2.5	450	6	P	
60	**Ni**	2	**1862.000**	ug/l	18,620.00	1.4	15000	45	A	
63	**Cu**	2	**52.940**	ug/l	529.40	2.2	15000	45	P	
66	**Zn**	2	**115.100**	ug/l	1,151.00	1.2	15000	45	P	
78	**Se**	2	**0.799**	ug/l	7.99	84.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5718303	0.92	6852000	**83.5**	30	-	120	
45	Sc	1	52486	4.50	249000	**21.1**	30	-	120	**IS Fail**
45	Sc	2	252579	0.72	274900	**91.9**	30	-	120	
74	Ge	1	32613	2.38	197500	**16.5**	30	-	120	**IS Fail**
74	Ge	2	381996	1.52	437500	**87.3**	30	-	120	
74	Ge	3	1675750	1.12	1769000	**94.7**	30	-	120	
103	Rh	2	727098	1.04	847200	**85.8**	30	-	120	
103	Rh	3	1440966	1.21	1574000	**91.5**	30	-	120	
165	Ho	3	3011432	0.54	3040000	**99.1**	30	-	120	
175	Lu	3	3276784	1.35	3395000	**96.5**	30	-	120	
209	Bi	3	6411563	0.05	7067000	**90.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\135SMPL.D\135SMPL.D#
Date Acquired: May 29 2010 12:23 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-21-B Vial Number: 4107
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.074**	ug/l	0.74	3.4	450	6	P	
60	**Ni**	2	**463.700**	ug/l	4,637.00	0.7	15000	45	P	
63	**Cu**	2	**72.670**	ug/l	726.70	0.6	15000	45	P	
66	**Zn**	2	**86.040**	ug/l	860.40	0.9	15000	45	P	
78	**Se**	2	**1.154**	ug/l	11.54	44.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5162519	1.84	6852000	**75.3**	30	-	120	
45	Sc	1	47453	1.72	249000	**19.1**	30	-	120	**IS Fail**
45	Sc	2	232840	1.76	274900	**84.7**	30	-	120	
74	Ge	1	30989	0.68	197500	**15.7**	30	-	120	**IS Fail**
74	Ge	2	365173	2.01	437500	**83.5**	30	-	120	
74	Ge	3	1566849	0.04	1769000	**88.6**	30	-	120	
103	Rh	2	715850	2.50	847200	**84.5**	30	-	120	
103	Rh	3	1370387	1.19	1574000	**87.1**	30	-	120	
165	Ho	3	2912201	1.08	3040000	**95.8**	30	-	120	
175	Lu	3	3179787	1.23	3395000	**93.7**	30	-	120	
209	Bi	3	6530681	0.93	7067000	**92.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\136SMPL.D\136SMPL.D#
Date Acquired: May 29 2010 12:29 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-22-B Vial Number: 4108
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.022**	ug/l	0.22	42.1	450	6	P	
60	**Ni**	2	**4250.000**	ug/l	42,500.00	1.3	15000	45	A	
63	**Cu**	2	**13.700**	ug/l	137.00	3.3	15000	45	P	
66	**Zn**	2	**69.610**	ug/l	696.10	2.3	15000	45	P	
78	**Se**	2	**-0.009**	ug/l	-0.09	7784.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5171171	1.43	6852000	**75.5**	30	-	120	
45	Sc	1	49193	0.85	249000	**19.8**	30	-	120	**IS Fail**
45	Sc	2	242276	0.41	274900	**88.1**	30	-	120	
74	Ge	1	29669	2.41	197500	**15.0**	30	-	120	**IS Fail**
74	Ge	2	356424	1.56	437500	**81.5**	30	-	120	
74	Ge	3	1587863	0.56	1769000	**89.8**	30	-	120	
103	Rh	2	686050	1.18	847200	**81.0**	30	-	120	
103	Rh	3	1354991	0.82	1574000	**86.1**	30	-	120	
165	Ho	3	2906530	0.94	3040000	**95.6**	30	-	120	
175	Lu	3	3163962	1.38	3395000	**93.2**	30	-	120	
209	Bi	3	6100489	1.64	7067000	**86.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\137SMPL.D\137SMPL.D#
Date Acquired: May 29 2010 12:35 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-23-B Vial Number: 4109
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.495**	ug/l	4.95	1.6	450	6	P	
60	**Ni**	2	**517.200**	ug/l	5,172.00	1.2	15000	45	P	
63	**Cu**	2	**24.420**	ug/l	244.20	2.8	15000	45	P	
66	**Zn**	2	**70.680**	ug/l	706.80	1.9	15000	45	P	
78	**Se**	2	**0.426**	ug/l	4.26	38.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5703958	0.59	6852000	**83.2**	30	-	120	
45	Sc	1	46292	1.76	249000	**18.6**	30	-	120	**IS Fail**
45	Sc	2	229651	0.57	274900	**83.5**	30	-	120	
74	Ge	1	31163	2.38	197500	**15.8**	30	-	120	**IS Fail**
74	Ge	2	364020	0.51	437500	**83.2**	30	-	120	
74	Ge	3	1592270	0.49	1769000	**90.0**	30	-	120	
103	Rh	2	720250	0.92	847200	**85.0**	30	-	120	
103	Rh	3	1409707	0.73	1574000	**89.6**	30	-	120	
165	Ho	3	2937080	1.19	3040000	**96.6**	30	-	120	
175	Lu	3	3222438	0.56	3395000	**94.9**	30	-	120	
209	Bi	3	6557511	1.08	7067000	**92.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\138SMPL.D\138SMPL.D#
Date Acquired: May 29 2010 12:42 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-24-B Vial Number: 4110
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.004**	ug/l	0.04	55.0	450	6	P	
60	**Ni**	2	**11.490**	ug/l	114.90	3.8	15000	45	P	
63	**Cu**	2	**1.924**	ug/l	19.24	3.0	15000	45	P	
66	**Zn**	2	**0.646**	ug/l	6.46	15.1	15000	45	P	
78	**Se**	2	**0.026**	ug/l	0.26	1008.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6148933	2.26	6852000	**89.7**	30	-	120	
45	Sc	1	48714	0.67	249000	**19.6**	30	-	120	**IS Fail**
45	Sc	2	232502	0.99	274900	**84.6**	30	-	120	
74	Ge	1	33897	2.31	197500	**17.2**	30	-	120	**IS Fail**
74	Ge	2	380741	0.19	437500	**87.0**	30	-	120	
74	Ge	3	1636378	0.28	1769000	**92.5**	30	-	120	
103	Rh	2	765081	0.22	847200	**90.3**	30	-	120	
103	Rh	3	1479931	1.43	1574000	**94.0**	30	-	120	
165	Ho	3	3002098	0.51	3040000	**98.8**	30	-	120	
175	Lu	3	3263742	1.40	3395000	**96.1**	30	-	120	
209	Bi	3	6919150	0.31	7067000	**97.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\139SMPL.D\139SMPL.D#
Date Acquired: May 29 2010 12:48 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**47.420**	ug/l	47.42	0.8	450	6	P	
60	**Ni**	2	**52.390**	ug/l	52.39	1.2	15000	45	P	
63	**Cu**	2	**52.240**	ug/l	52.24	0.1	15000	45	P	
66	**Zn**	2	**51.970**	ug/l	51.97	2.2	15000	45	P	
78	**Se**	2	**49.740**	ug/l	49.74	2.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6037592	1.36	6852000	**88.1**	30	-	120	
45	Sc	1	50605	1.78	249000	**20.3**	30	-	120	**IS Fail**
45	Sc	2	225119	0.51	274900	**81.9**	30	-	120	
74	Ge	1	36273	0.96	197500	**18.4**	30	-	120	**IS Fail**
74	Ge	2	374468	1.13	437500	**85.6**	30	-	120	
74	Ge	3	1634131	0.56	1769000	**92.4**	30	-	120	
103	Rh	2	735300	0.86	847200	**86.8**	30	-	120	
103	Rh	3	1452802	0.62	1574000	**92.3**	30	-	120	
165	Ho	3	2984954	0.95	3040000	**98.2**	30	-	120	
175	Lu	3	3207500	1.23	3395000	**94.5**	30	-	120	
209	Bi	3	6672263	1.54	7067000	**94.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\140SMPL.D\140SMPL.D#
Date Acquired: May 29 2010 12:54 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.017**	ug/l	0.02	19.9	450	6	P	
60	**Ni**	2	**0.156**	ug/l	0.16	29.5	15000	45	P	
63	**Cu**	2	**0.025**	ug/l	0.02	69.7	15000	45	P	
66	**Zn**	2	**0.247**	ug/l	0.25	32.3	15000	45	P	
78	**Se**	2	**-0.242**	ug/l	-0.24	106.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5860135	0.27	6852000	**85.5**	30	-	120	
45	Sc	1	52871	2.41	249000	**21.2**	30	-	120	**IS Fail**
45	Sc	2	231702	1.76	274900	**84.3**	30	-	120	
74	Ge	1	38530	2.69	197500	**19.5**	30	-	120	**IS Fail**
74	Ge	2	386453	1.26	437500	**88.3**	30	-	120	
74	Ge	3	1644212	0.60	1769000	**92.9**	30	-	120	
103	Rh	2	777981	1.74	847200	**91.8**	30	-	120	
103	Rh	3	1488371	0.48	1574000	**94.6**	30	-	120	
165	Ho	3	3031913	0.82	3040000	**99.7**	30	-	120	
175	Lu	3	3289507	1.51	3395000	**96.9**	30	-	120	
209	Bi	3	6912761	0.53	7067000	**97.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\141SMPL.D\141SMPL.D#
Date Acquired: May 29 2010 01:00 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-25-B Vial Number: 4201
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.006**	ug/l	0.06	18.7	450	6	P	
60	**Ni**	2	**9.237**	ug/l	92.37	4.2	15000	45	P	
63	**Cu**	2	**0.471**	ug/l	4.71	4.9	15000	45	P	
66	**Zn**	2	**0.747**	ug/l	7.47	38.3	15000	45	P	
78	**Se**	2	**0.278**	ug/l	2.78	245.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6112764	0.18	6852000	**89.2**	30	-	120	
45	Sc	1	54729	1.03	249000	**22.0**	30	-	120	**IS Fail**
45	Sc	2	229166	0.95	274900	**83.4**	30	-	120	
74	Ge	1	40175	0.80	197500	**20.3**	30	-	120	**IS Fail**
74	Ge	2	382922	0.79	437500	**87.5**	30	-	120	
74	Ge	3	1644204	1.26	1769000	**92.9**	30	-	120	
103	Rh	2	769316	1.13	847200	**90.8**	30	-	120	
103	Rh	3	1456215	1.84	1574000	**92.5**	30	-	120	
165	Ho	3	2943418	1.07	3040000	**96.8**	30	-	120	
175	Lu	3	3188335	0.74	3395000	**93.9**	30	-	120	
209	Bi	3	6842163	0.86	7067000	**96.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\142SMPL.D\142SMPL.D#
Date Acquired: May 29 2010 01:06 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-26-B Vial Number: 4202
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.005**	ug/l	0.05	22.5	450	6	P	
60	**Ni**	2	**5.518**	ug/l	55.18	1.9	15000	45	P	
63	**Cu**	2	**4.430**	ug/l	44.30	7.2	15000	45	P	
66	**Zn**	2	**5.683**	ug/l	56.83	7.4	15000	45	P	
78	**Se**	2	**-0.238**	ug/l	-2.38	110.2	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6230415	2.03	6852000	**90.9**	30	-	120	
45	Sc	1	59460	0.90	249000	**23.9**	30	-	120	**IS Fail**
45	Sc	2	227685	1.00	274900	**82.8**	30	-	120	
74	Ge	1	42420	1.43	197500	**21.5**	30	-	120	**IS Fail**
74	Ge	2	384172	0.73	437500	**87.8**	30	-	120	
74	Ge	3	1643023	1.70	1769000	**92.9**	30	-	120	
103	Rh	2	762921	1.01	847200	**90.1**	30	-	120	
103	Rh	3	1475222	1.68	1574000	**93.7**	30	-	120	
165	Ho	3	2932677	0.76	3040000	**96.5**	30	-	120	
175	Lu	3	3212193	1.32	3395000	**94.6**	30	-	120	
209	Bi	3	6810128	0.81	7067000	**96.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\143SMPL.D\143SMPL.D#
Date Acquired: May 29 2010 01:12 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-27-B Vial Number: 4203
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.008**	ug/l	0.08	40.8	450	6	P	
60	**Ni**	2	**4.209**	ug/l	42.09	5.1	15000	45	P	
63	**Cu**	2	**2.695**	ug/l	26.95	1.8	15000	45	P	
66	**Zn**	2	**3.687**	ug/l	36.87	11.0	15000	45	P	
78	**Se**	2	**-0.243**	ug/l	-2.43	184.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6082816	1.89	6852000	**88.8**	30	-	120	
45	Sc	1	63288	3.40	249000	**25.4**	30	-	120	**IS Fail**
45	Sc	2	230476	0.88	274900	**83.8**	30	-	120	
74	Ge	1	46929	2.00	197500	**23.8**	30	-	120	**IS Fail**
74	Ge	2	389581	1.45	437500	**89.0**	30	-	120	
74	Ge	3	1662362	0.81	1769000	**94.0**	30	-	120	
103	Rh	2	762995	2.28	847200	**90.1**	30	-	120	
103	Rh	3	1481930	1.57	1574000	**94.2**	30	-	120	
165	Ho	3	2957056	1.22	3040000	**97.3**	30	-	120	
175	Lu	3	3257385	1.13	3395000	**95.9**	30	-	120	
209	Bi	3	6882254	0.62	7067000	**97.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\144SMPL.D\144SMPL.D#
Date Acquired: May 29 2010 01:19 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-28-B Vial Number: 4204
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.022**	ug/l	10.22	2.9	450	6	P	
60	**Ni**	2	**2190.000**	ug/l	21,900.00	0.6	15000	45	A	
63	**Cu**	2	**59.310**	ug/l	593.10	0.6	15000	45	P	
66	**Zn**	2	**114.300**	ug/l	1,143.00	3.3	15000	45	P	
78	**Se**	2	**0.499**	ug/l	4.99	32.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5616082	1.78	6852000	**82.0**	30	-	120	
45	Sc	1	65704	1.74	249000	**26.4**	30	-	120	**IS Fail**
45	Sc	2	243536	0.30	274900	**88.6**	30	-	120	
74	Ge	1	41764	1.19	197500	**21.1**	30	-	120	**IS Fail**
74	Ge	2	369500	0.81	437500	**84.5**	30	-	120	
74	Ge	3	1602532	0.99	1769000	**90.6**	30	-	120	
103	Rh	2	709501	0.89	847200	**83.7**	30	-	120	
103	Rh	3	1385065	0.63	1574000	**88.0**	30	-	120	
165	Ho	3	2938600	0.77	3040000	**96.7**	30	-	120	
175	Lu	3	3205775	0.57	3395000	**94.4**	30	-	120	
209	Bi	3	6344866	1.64	7067000	**89.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\145SMPL.D\145SMPL.D#
Date Acquired: May 29 2010 01:25 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-29-B Vial Number: 4205
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.626**	ug/l	6.26	2.6	450	6	P	
60	**Ni**	2	**3388.000**	ug/l	33,880.00	2.5	15000	45	A	
63	**Cu**	2	**27.310**	ug/l	273.10	1.4	15000	45	P	
66	**Zn**	2	**78.530**	ug/l	785.30	2.2	15000	45	P	
78	**Se**	2	**1.636**	ug/l	16.36	68.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5370643	1.43	6852000	**78.4**	30	-	120	
45	Sc	1	56798	0.60	249000	**22.8**	30	-	120	**IS Fail**
45	Sc	2	241054	2.18	274900	**87.7**	30	-	120	
74	Ge	1	36213	2.69	197500	**18.3**	30	-	120	**IS Fail**
74	Ge	2	360541	1.70	437500	**82.4**	30	-	120	
74	Ge	3	1562142	1.16	1769000	**88.3**	30	-	120	
103	Rh	2	701014	1.72	847200	**82.7**	30	-	120	
103	Rh	3	1343785	1.05	1574000	**85.4**	30	-	120	
165	Ho	3	2862034	1.58	3040000	**94.1**	30	-	120	
175	Lu	3	3121914	1.27	3395000	**92.0**	30	-	120	
209	Bi	3	6232798	0.46	7067000	**88.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\146SMPL.D\146SMPL.D#
Date Acquired: May 29 2010 01:31 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-30-B Vial Number: 4206
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.163**	ug/l	11.63	3.7	450	6	P	
60	**Ni**	2	**579.500**	ug/l	5,795.00	0.4	15000	45	P	
63	**Cu**	2	**81.230**	ug/l	812.30	0.5	15000	45	P	
66	**Zn**	2	**189.900**	ug/l	1,899.00	0.4	15000	45	P	
78	**Se**	2	**0.257**	ug/l	2.57	62.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5610977	1.75	6852000	**81.9**	30	-	120	
45	Sc	1	56332	1.99	249000	**22.6**	30	-	120	**IS Fail**
45	Sc	2	238532	1.08	274900	**86.8**	30	-	120	
74	Ge	1	35769	1.47	197500	**18.1**	30	-	120	**IS Fail**
74	Ge	2	359265	0.36	437500	**82.1**	30	-	120	
74	Ge	3	1572417	1.41	1769000	**88.9**	30	-	120	
103	Rh	2	700816	1.22	847200	**82.7**	30	-	120	
103	Rh	3	1363171	0.03	1574000	**86.6**	30	-	120	
165	Ho	3	2895256	0.98	3040000	**95.2**	30	-	120	
175	Lu	3	3158096	0.66	3395000	**93.0**	30	-	120	
209	Bi	3	6274243	0.20	7067000	**88.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\147SMPL.D\147SMPL.D#
Date Acquired: May 29 2010 01:37 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**47.030**	ug/l	47.03	0.5	450	6	P	
60	**Ni**	2	**53.670**	ug/l	53.67	1.0	15000	45	P	
63	**Cu**	2	**52.710**	ug/l	52.71	1.0	15000	45	P	
66	**Zn**	2	**51.830**	ug/l	51.83	1.9	15000	45	P	
78	**Se**	2	**48.670**	ug/l	48.67	9.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5981587	1.11	6852000	**87.3**	30	-	120	
45	Sc	1	54538	1.11	249000	**21.9**	30	-	120	**IS Fail**
45	Sc	2	224027	0.25	274900	**81.5**	30	-	120	
74	Ge	1	38788	3.16	197500	**19.6**	30	-	120	**IS Fail**
74	Ge	2	376383	0.50	437500	**86.0**	30	-	120	
74	Ge	3	1648322	0.73	1769000	**93.2**	30	-	120	
103	Rh	2	735400	1.43	847200	**86.8**	30	-	120	
103	Rh	3	1457668	1.82	1574000	**92.6**	30	-	120	
165	Ho	3	2962289	0.42	3040000	**97.4**	30	-	120	
175	Lu	3	3228939	1.13	3395000	**95.1**	30	-	120	
209	Bi	3	6689615	0.95	7067000	**94.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\148SMPL.D\148SMPL.D#
Date Acquired: May 29 2010 01:43 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.021**	ug/l	0.02	32.2	450	6	P	
60	**Ni**	2	**0.332**	ug/l	0.33	22.5	15000	45	P	
63	**Cu**	2	**0.063**	ug/l	0.06	22.9	15000	45	P	
66	**Zn**	2	**0.213**	ug/l	0.21	43.3	15000	45	P	
78	**Se**	2	**0.093**	ug/l	0.09	408.9	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5771801	1.35	6852000	**84.2**	30	-	120	
45	Sc	1	57066	4.00	249000	**22.9**	30	-	120	**IS Fail**
45	Sc	2	230901	0.79	274900	**84.0**	30	-	120	
74	Ge	1	41132	1.73	197500	**20.8**	30	-	120	**IS Fail**
74	Ge	2	388972	1.86	437500	**88.9**	30	-	120	
74	Ge	3	1643416	0.59	1769000	**92.9**	30	-	120	
103	Rh	2	776172	1.73	847200	**91.6**	30	-	120	
103	Rh	3	1498355	0.60	1574000	**95.2**	30	-	120	
165	Ho	3	2969216	0.90	3040000	**97.7**	30	-	120	
175	Lu	3	3257886	1.05	3395000	**96.0**	30	-	120	
209	Bi	3	6935426	1.83	7067000	**98.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\149SMPL.D\149SMPL.D#
Date Acquired: May 29 2010 01:49 am Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64541/21-A Vial Number: 4301
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.003**	ug/l	0.03	80.9	450	6	P	
60	**Ni**	2	**0.127**	ug/l	1.27	23.7	15000	45	P	
63	**Cu**	2	**0.015**	ug/l	0.15	102.6	15000	45	P	
66	**Zn**	2	**0.110**	ug/l	1.10	49.0	15000	45	P	
78	**Se**	2	**-0.251**	ug/l	-2.51	201.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5773800	0.35	6852000	**84.3**	30	-	120	
45	Sc	1	54076	3.71	249000	**21.7**	30	-	120	**IS Fail**
45	Sc	2	234512	0.65	274900	**85.3**	30	-	120	
74	Ge	1	38758	2.77	197500	**19.6**	30	-	120	**IS Fail**
74	Ge	2	391817	0.46	437500	**89.6**	30	-	120	
74	Ge	3	1663548	0.18	1769000	**94.0**	30	-	120	
103	Rh	2	779601	1.48	847200	**92.0**	30	-	120	
103	Rh	3	1495716	0.64	1574000	**95.0**	30	-	120	
165	Ho	3	3010243	0.85	3040000	**99.0**	30	-	120	
175	Lu	3	3305884	0.61	3395000	**97.4**	30	-	120	
209	Bi	3	6962439	1.28	7067000	**98.5**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\150SMPL.D\150SMPL.D#
Date Acquired: May 29 2010 01:55 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-B SD Vial Number: 4302
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.122**	ug/l	6.10	12.2	450	6	P	
60	**Ni**	2	**973.300**	ug/l	48,665.00	0.5	15000	45	P	
63	**Cu**	2	**5.566**	ug/l	278.30	2.5	15000	45	P	
66	**Zn**	2	**20.000**	ug/l	1,000.00	0.7	15000	45	P	
78	**Se**	2	**0.116**	ug/l	5.78	133.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6041876	2.86	6852000	**88.2**	30	-	120	
45	Sc	1	55723	0.36	249000	**22.4**	30	-	120	**IS Fail**
45	Sc	2	235554	0.89	274900	**85.7**	30	-	120	
74	Ge	1	39092	2.40	197500	**19.8**	30	-	120	**IS Fail**
74	Ge	2	379763	0.46	437500	**86.8**	30	-	120	
74	Ge	3	1658114	1.10	1769000	**93.7**	30	-	120	
103	Rh	2	740988	0.47	847200	**87.5**	30	-	120	
103	Rh	3	1476437	0.65	1574000	**93.8**	30	-	120	
165	Ho	3	2990905	0.84	3040000	**98.4**	30	-	120	
175	Lu	3	3246035	0.61	3395000	**95.6**	30	-	120	
209	Bi	3	6664266	0.26	7067000	**94.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\151SMPL.D\151SMPL.D#
Date Acquired: May 29 2010 02:01 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-B Vial Number: 4303
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.660**	ug/l	6.60	6.6	450	6	P	
60	**Ni**	2	**4048.000**	ug/l	40,480.00	0.5	15000	45	A	
63	**Cu**	2	**23.990**	ug/l	239.90	1.3	15000	45	P	
66	**Zn**	2	**86.250**	ug/l	862.50	0.7	15000	45	P	
78	**Se**	2	**1.455**	ug/l	14.55	68.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5497458	1.44	6852000	**80.2**	30	-	120	
45	Sc	1	59380	2.88	249000	**23.8**	30	-	120	**IS Fail**
45	Sc	2	244041	0.32	274900	**88.8**	30	-	120	
74	Ge	1	36511	1.66	197500	**18.5**	30	-	120	**IS Fail**
74	Ge	2	359416	0.36	437500	**82.2**	30	-	120	
74	Ge	3	1545016	0.74	1769000	**87.3**	30	-	120	
103	Rh	2	701086	1.18	847200	**82.8**	30	-	120	
103	Rh	3	1350480	1.77	1574000	**85.8**	30	-	120	
165	Ho	3	2863837	1.06	3040000	**94.2**	30	-	120	
175	Lu	3	3130954	0.98	3395000	**92.2**	30	-	120	
209	Bi	3	6279704	0.98	7067000	**88.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\152SMPL.D\152SMPL.D#
Date Acquired: May 29 2010 02:08 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-C DU Vial Number: 4304
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.627**	ug/l	6.27	5.7	450	6	P	
60	**Ni**	2	**4073.000**	ug/l	40,730.00	2.1	15000	45	A	
63	**Cu**	2	**23.910**	ug/l	239.10	2.2	15000	45	P	
66	**Zn**	2	**85.860**	ug/l	858.60	2.6	15000	45	P	
78	**Se**	2	**1.317**	ug/l	13.17	13.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5414229	1.81	6852000	**79.0**	30	-	120	
45	Sc	1	60668	0.03	249000	**24.4**	30	-	120	**IS Fail**
45	Sc	2	236171	1.41	274900	**85.9**	30	-	120	
74	Ge	1	38935	2.12	197500	**19.7**	30	-	120	**IS Fail**
74	Ge	2	351361	1.61	437500	**80.3**	30	-	120	
74	Ge	3	1509970	0.95	1769000	**85.4**	30	-	120	
103	Rh	2	685805	1.24	847200	**80.9**	30	-	120	
103	Rh	3	1309231	1.09	1574000	**83.2**	30	-	120	
165	Ho	3	2821159	1.19	3040000	**92.8**	30	-	120	
175	Lu	3	3067308	1.12	3395000	**90.3**	30	-	120	
209	Bi	3	6193566	0.57	7067000	**87.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\153SMPL.D\153SMPL.D#
Date Acquired: May 29 2010 02:14 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-D MS Vial Number: 4305
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.928**	ug/l	96.40	2.8	450	6	P	
60	**Ni**	2	**832.500**	ug/l	41,625.00	0.7	15000	45	P	
63	**Cu**	2	**14.560**	ug/l	728.00	2.0	15000	45	P	
66	**Zn**	2	**35.880**	ug/l	1,794.00	2.1	15000	45	P	
78	**Se**	2	**70.180**	ug/l	3,509.00	10.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5721154	2.37	6852000	**83.5**	30	-	120	
45	Sc	1	61325	1.48	249000	**24.6**	30	-	120	**IS Fail**
45	Sc	2	222697	1.31	274900	**81.0**	30	-	120	
74	Ge	1	43670	1.80	197500	**22.1**	30	-	120	**IS Fail**
74	Ge	2	360539	0.97	437500	**82.4**	30	-	120	
74	Ge	3	1568068	0.29	1769000	**88.6**	30	-	120	
103	Rh	2	706986	0.69	847200	**83.4**	30	-	120	
103	Rh	3	1383333	0.65	1574000	**87.9**	30	-	120	
165	Ho	3	2862072	1.90	3040000	**94.1**	30	-	120	
175	Lu	3	3165301	0.70	3395000	**93.2**	30	-	120	
209	Bi	3	6566691	0.48	7067000	**92.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\154SMPL.D\154SMPL.D#
Date Acquired: May 29 2010 02:20 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-E MSD Vial Number: 4306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.949**	ug/l	97.45	2.8	450	6	P	
60	**Ni**	2	**864.100**	ug/l	43,205.00	1.1	15000	45	P	
63	**Cu**	2	**14.530**	ug/l	726.50	1.1	15000	45	P	
66	**Zn**	2	**36.150**	ug/l	1,807.50	3.0	15000	45	P	
78	**Se**	2	**77.470**	ug/l	3,873.50	1.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5830117	1.37	6852000	**85.1**	30	-	120	
45	Sc	1	61510	2.63	249000	**24.7**	30	-	120	**IS Fail**
45	Sc	2	221590	0.76	274900	**80.6**	30	-	120	
74	Ge	1	42948	2.28	197500	**21.7**	30	-	120	**IS Fail**
74	Ge	2	360220	1.02	437500	**82.3**	30	-	120	
74	Ge	3	1566398	1.57	1769000	**88.5**	30	-	120	
103	Rh	2	715423	2.57	847200	**84.4**	30	-	120	
103	Rh	3	1395779	3.08	1574000	**88.7**	30	-	120	
165	Ho	3	2884289	1.71	3040000	**94.9**	30	-	120	
175	Lu	3	3158325	0.41	3395000	**93.0**	30	-	120	
209	Bi	3	6553722	0.47	7067000	**92.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\155SMPL.D\155SMPL.D#
Date Acquired: May 29 2010 02:26 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-31-B PDS Vial Number: 4307
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.954**	ug/l	97.70	2.0	450	6	P	
60	**Ni**	2	**862.100**	ug/l	43,105.00	0.6	15000	45	P	
63	**Cu**	2	**14.890**	ug/l	744.50	1.0	15000	45	P	
66	**Zn**	2	**36.850**	ug/l	1,842.50	1.6	15000	45	P	
78	**Se**	2	**75.280**	ug/l	3,764.00	2.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5900160	1.74	6852000	**86.1**	30	-	120	
45	Sc	1	57836	2.01	249000	**23.2**	30	-	120	**IS Fail**
45	Sc	2	222068	0.27	274900	**80.8**	30	-	120	
74	Ge	1	41098	0.45	197500	**20.8**	30	-	120	**IS Fail**
74	Ge	2	361005	0.84	437500	**82.5**	30	-	120	
74	Ge	3	1559667	0.87	1769000	**88.2**	30	-	120	
103	Rh	2	706960	1.47	847200	**83.4**	30	-	120	
103	Rh	3	1374556	0.71	1574000	**87.3**	30	-	120	
165	Ho	3	2886922	0.10	3040000	**95.0**	30	-	120	
175	Lu	3	3180463	0.51	3395000	**93.7**	30	-	120	
209	Bi	3	6520564	0.76	7067000	**92.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\156SMPL.D\156SMPL.D#
Date Acquired: May 29 2010 02:32 am Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64541/22-A Vial Number: 4308
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.833**	ug/l	91.65	4.0	450	6	P	
60	**Ni**	2	**21.080**	ug/l	1,054.00	0.7	15000	45	P	
63	**Cu**	2	**10.650**	ug/l	532.50	1.2	15000	45	P	
66	**Zn**	2	**20.110**	ug/l	1,005.50	3.0	15000	45	P	
78	**Se**	2	**75.490**	ug/l	3,774.50	9.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5592045	1.87	6852000	**81.6**	30	-	120	
45	Sc	1	56667	0.95	249000	**22.8**	30	-	120	**IS Fail**
45	Sc	2	219066	0.39	274900	**79.7**	30	-	120	
74	Ge	1	41346	3.85	197500	**20.9**	30	-	120	**IS Fail**
74	Ge	2	366034	0.46	437500	**83.7**	30	-	120	
74	Ge	3	1573786	1.17	1769000	**89.0**	30	-	120	
103	Rh	2	739696	0.96	847200	**87.3**	30	-	120	
103	Rh	3	1410753	1.50	1574000	**89.6**	30	-	120	
165	Ho	3	2893901	1.45	3040000	**95.2**	30	-	120	
175	Lu	3	3202540	2.19	3395000	**94.3**	30	-	120	
209	Bi	3	6768283	1.51	7067000	**95.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\157SMPL.D\157SMPL.D#
Date Acquired: May 29 2010 02:38 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64541/23-A Vial Number: 4309
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **50.00** Final Dil Factor: **50.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.893**	ug/l	94.65	0.8	450	6	P	
60	**Ni**	2	**20.790**	ug/l	1,039.50	5.2	15000	45	P	
63	**Cu**	2	**10.660**	ug/l	533.00	2.2	15000	45	P	
66	**Zn**	2	**20.910**	ug/l	1,045.50	2.6	15000	45	P	
78	**Se**	2	**78.020**	ug/l	3,901.00	9.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5547666	1.23	6852000	**81.0**	30	-	120	
45	Sc	1	60541	1.63	249000	**24.3**	30	-	120	**IS Fail**
45	Sc	2	221031	0.33	274900	**80.4**	30	-	120	
74	Ge	1	42774	1.65	197500	**21.7**	30	-	120	**IS Fail**
74	Ge	2	367890	0.59	437500	**84.1**	30	-	120	
74	Ge	3	1576933	0.71	1769000	**89.1**	30	-	120	
103	Rh	2	744946	0.95	847200	**87.9**	30	-	120	
103	Rh	3	1407045	1.49	1574000	**89.4**	30	-	120	
165	Ho	3	2922518	0.74	3040000	**96.1**	30	-	120	
175	Lu	3	3215929	0.96	3395000	**94.7**	30	-	120	
209	Bi	3	6753841	0.25	7067000	**95.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\158SMPL.D\158SMPL.D#
Date Acquired: May 29 2010 02:44 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64541/24-A Vial Number: 4310
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **20.00** Final Dil Factor: **20.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**85.560**	ug/l	1,711.20	0.5	450	6	P	
60	**Ni**	2	**101.600**	ug/l	2,032.00	2.0	15000	45	P	
63	**Cu**	2	**39.130**	ug/l	782.60	2.9	15000	45	P	
66	**Zn**	2	**206.300**	ug/l	4,126.00	1.1	15000	45	P	
78	**Se**	2	**79.380**	ug/l	1,587.60	4.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5794353	0.23	6852000	**84.6**	30	-	120	
45	Sc	1	63995	1.91	249000	**25.7**	30	-	120	**IS Fail**
45	Sc	2	222975	1.50	274900	**81.1**	30	-	120	
74	Ge	1	46404	1.28	197500	**23.5**	30	-	120	**IS Fail**
74	Ge	2	364617	1.25	437500	**83.3**	30	-	120	
74	Ge	3	1592761	0.60	1769000	**90.0**	30	-	120	
103	Rh	2	721772	1.64	847200	**85.2**	30	-	120	
103	Rh	3	1404173	0.97	1574000	**89.2**	30	-	120	
165	Ho	3	2948604	0.58	3040000	**97.0**	30	-	120	
175	Lu	3	3223391	1.73	3395000	**94.9**	30	-	120	
209	Bi	3	6632632	0.63	7067000	**93.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\159SMPL.D\159SMPL.D#
Date Acquired: May 29 2010 02:51 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**47.290**	ug/l	47.29	0.6	450	6	P	
60	**Ni**	2	**50.790**	ug/l	50.79	2.0	15000	45	P	
63	**Cu**	2	**52.100**	ug/l	52.10	1.7	15000	45	P	
66	**Zn**	2	**51.500**	ug/l	51.50	1.4	15000	45	P	
78	**Se**	2	**46.540**	ug/l	46.54	13.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5735400	0.55	6852000	**83.7**	30	-	120	
45	Sc	1	66625	0.37	249000	**26.8**	30	-	120	**IS Fail**
45	Sc	2	220965	0.77	274900	**80.4**	30	-	120	
74	Ge	1	48703	1.44	197500	**24.7**	30	-	120	**IS Fail**
74	Ge	2	368124	0.60	437500	**84.1**	30	-	120	
74	Ge	3	1583338	1.26	1769000	**89.5**	30	-	120	
103	Rh	2	722700	1.43	847200	**85.3**	30	-	120	
103	Rh	3	1405281	0.74	1574000	**89.3**	30	-	120	
165	Ho	3	2923730	0.63	3040000	**96.2**	30	-	120	
175	Lu	3	3178467	1.55	3395000	**93.6**	30	-	120	
209	Bi	3	6612058	0.68	7067000	**93.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\160SMPL.D\160SMPL.D#
Date Acquired: May 29 2010 02:57 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.029**	ug/l	0.03	14.2	450	6	P	
60	**Ni**	2	**0.283**	ug/l	0.28	14.6	15000	45	P	
63	**Cu**	2	**0.049**	ug/l	0.05	20.8	15000	45	P	
66	**Zn**	2	**0.172**	ug/l	0.17	63.2	15000	45	P	
78	**Se**	2	**-0.054**	ug/l	-0.05	737.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5559037	1.75	6852000	**81.1**	30	-	120	
45	Sc	1	68441	0.50	249000	**27.5**	30	-	120	**IS Fail**
45	Sc	2	224627	1.35	274900	**81.7**	30	-	120	
74	Ge	1	50580	0.83	197500	**25.6**	30	-	120	**IS Fail**
74	Ge	2	377281	2.23	437500	**86.2**	30	-	120	
74	Ge	3	1585744	0.83	1769000	**89.6**	30	-	120	
103	Rh	2	754993	2.19	847200	**89.1**	30	-	120	
103	Rh	3	1434984	0.23	1574000	**91.2**	30	-	120	
165	Ho	3	2928209	0.62	3040000	**96.3**	30	-	120	
175	Lu	3	3200720	0.20	3395000	**94.3**	30	-	120	
209	Bi	3	6801162	0.64	7067000	**96.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\161SMPL.D\161SMPL.D#
Date Acquired: May 29 2010 03:03 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19399-A-32-B Vial Number: 4401
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.634**	ug/l	6.34	4.3	450	6	P	
60	**Ni**	2	**3692.000**	ug/l	36,920.00	0.9	15000	45	A	
63	**Cu**	2	**25.830**	ug/l	258.30	0.9	15000	45	P	
66	**Zn**	2	**87.330**	ug/l	873.30	2.4	15000	45	P	
78	**Se**	2	**0.271**	ug/l	2.71	117.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5301391	0.52	6852000	**77.4**	30	-	120	
45	Sc	1	75260	3.14	249000	**30.2**	30	-	120	
45	Sc	2	237624	0.94	274900	**86.4**	30	-	120	
74	Ge	1	48964	1.64	197500	**24.8**	30	-	120	**IS Fail**
74	Ge	2	354123	1.04	437500	**80.9**	30	-	120	
74	Ge	3	1504068	0.84	1769000	**85.0**	30	-	120	
103	Rh	2	689727	1.42	847200	**81.4**	30	-	120	
103	Rh	3	1321998	1.51	1574000	**84.0**	30	-	120	
165	Ho	3	2840681	1.29	3040000	**93.4**	30	-	120	
175	Lu	3	3114673	0.64	3395000	**91.7**	30	-	120	
209	Bi	3	6279028	1.58	7067000	**88.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\162SMPL.D\162SMPL.D#
Date Acquired: May 29 2010 03:09 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-1-E Vial Number: 4402
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.920**	ug/l	9.20	2.9	450	6	P	
60	**Ni**	2	**837.200**	ug/l	8,372.00	0.7	15000	45	P	
63	**Cu**	2	**52.670**	ug/l	526.70	0.8	15000	45	P	
66	**Zn**	2	**116.200**	ug/l	1,162.00	0.5	15000	45	P	
78	**Se**	2	**0.851**	ug/l	8.51	85.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5421386	1.47	6852000	**79.1**	30	-	120	
45	Sc	1	74911	0.91	249000	**30.1**	30	-	120	
45	Sc	2	235504	0.30	274900	**85.7**	30	-	120	
74	Ge	1	50637	2.45	197500	**25.6**	30	-	120	**IS Fail**
74	Ge	2	351118	0.87	437500	**80.3**	30	-	120	
74	Ge	3	1524762	0.65	1769000	**86.2**	30	-	120	
103	Rh	2	670035	0.19	847200	**79.1**	30	-	120	
103	Rh	3	1300655	1.85	1574000	**82.6**	30	-	120	
165	Ho	3	2820460	0.67	3040000	**92.8**	30	-	120	
175	Lu	3	3085701	0.99	3395000	**90.9**	30	-	120	
209	Bi	3	6105108	0.98	7067000	**86.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
1 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\163SMPL.D\163SMPL.D#
Date Acquired: May 29 2010 03:15 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-2-B Vial Number: 4403
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.880**	ug/l	8.80	1.4	450	6	P	
60	**Ni**	2	**1121.000**	ug/l	11,210.00	1.0	15000	45	P	
63	**Cu**	2	**53.070**	ug/l	530.70	1.9	15000	45	P	
66	**Zn**	2	**101.900**	ug/l	1,019.00	0.5	15000	45	P	
78	**Se**	2	**1.074**	ug/l	10.74	88.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5574345	0.17	6852000	**81.4**	30	-	120	
45	Sc	1	68964	1.32	249000	**27.7**	30	-	120	**IS Fail**
45	Sc	2	235695	1.02	274900	**85.7**	30	-	120	
74	Ge	1	44611	3.72	197500	**22.6**	30	-	120	**IS Fail**
74	Ge	2	345291	1.78	437500	**78.9**	30	-	120	
74	Ge	3	1533405	1.23	1769000	**86.7**	30	-	120	
103	Rh	2	667098	1.74	847200	**78.7**	30	-	120	
103	Rh	3	1293013	2.24	1574000	**82.1**	30	-	120	
165	Ho	3	2808370	1.48	3040000	**92.4**	30	-	120	
175	Lu	3	3061527	0.24	3395000	**90.2**	30	-	120	
209	Bi	3	5987950	0.83	7067000	**84.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\164SMPL.D\164SMPL.D#
Date Acquired: May 29 2010 03:21 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-3-B Vial Number: 4404
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.786**	ug/l	17.86	4.1	450	6	P	
60	**Ni**	2	**374.300**	ug/l	3,743.00	1.9	15000	45	P	
63	**Cu**	2	**198.400**	ug/l	1,984.00	1.6	15000	45	P	
66	**Zn**	2	**13430.000**	ug/l	134,300.00	2.1	15000	45	A	
78	**Se**	2	**2.542**	ug/l	25.42	34.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5714849	1.56	6852000	**83.4**	30	-	120	
45	Sc	1	63486	3.43	249000	**25.5**	30	-	120	**IS Fail**
45	Sc	2	230957	1.91	274900	**84.0**	30	-	120	
74	Ge	1	42476	2.34	197500	**21.5**	30	-	120	**IS Fail**
74	Ge	2	351860	1.65	437500	**80.4**	30	-	120	
74	Ge	3	1521311	1.62	1769000	**86.0**	30	-	120	
103	Rh	2	676717	1.98	847200	**79.9**	30	-	120	
103	Rh	3	1322195	1.68	1574000	**84.0**	30	-	120	
165	Ho	3	2859052	0.39	3040000	**94.0**	30	-	120	
175	Lu	3	3135981	2.29	3395000	**92.4**	30	-	120	
209	Bi	3	6215128	0.72	7067000	**87.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\165SMPL.D\165SMPL.D#
Date Acquired: May 29 2010 03:27 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-4-B Vial Number: 4405
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.862**	ug/l	8.62	6.2	450	6	P	
60	**Ni**	2	**1131.000**	ug/l	11,310.00	1.1	15000	45	P	
63	**Cu**	2	**53.590**	ug/l	535.90	1.5	15000	45	P	
66	**Zn**	2	**131.400**	ug/l	1,314.00	0.5	15000	45	P	
78	**Se**	2	**1.225**	ug/l	12.25	62.5	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5692833	2.00	6852000	**83.1**	30	-	120	
45	Sc	1	57980	2.26	249000	**23.3**	30	-	120	**IS Fail**
45	Sc	2	234885	1.35	274900	**85.4**	30	-	120	
74	Ge	1	37223	2.36	197500	**18.8**	30	-	120	**IS Fail**
74	Ge	2	351528	0.79	437500	**80.3**	30	-	120	
74	Ge	3	1523951	1.07	1769000	**86.1**	30	-	120	
103	Rh	2	673116	0.97	847200	**79.5**	30	-	120	
103	Rh	3	1313161	2.26	1574000	**83.4**	30	-	120	
165	Ho	3	2815307	0.85	3040000	**92.6**	30	-	120	
175	Lu	3	3105766	0.92	3395000	**91.5**	30	-	120	
209	Bi	3	6071139	0.51	7067000	**85.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\166SMPL.D\166SMPL.D#
Date Acquired: May 29 2010 03:33 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-5-B Vial Number: 4406
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.808**	ug/l	8.08	1.5	450	6	P	
60	**Ni**	2	**234.000**	ug/l	2,340.00	0.7	15000	45	P	
63	**Cu**	2	**77.210**	ug/l	772.10	1.2	15000	45	P	
66	**Zn**	2	**179.300**	ug/l	1,793.00	2.1	15000	45	P	
78	**Se**	2	**0.904**	ug/l	9.04	29.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5845915	1.90	6852000	**85.3**	30	-	120	
45	Sc	1	58449	2.58	249000	**23.5**	30	-	120	**IS Fail**
45	Sc	2	232096	0.08	274900	**84.4**	30	-	120	
74	Ge	1	37521	2.44	197500	**19.0**	30	-	120	**IS Fail**
74	Ge	2	358524	1.39	437500	**81.9**	30	-	120	
74	Ge	3	1554364	0.70	1769000	**87.9**	30	-	120	
103	Rh	2	692392	1.25	847200	**81.7**	30	-	120	
103	Rh	3	1338202	0.71	1574000	**85.0**	30	-	120	
165	Ho	3	2852001	0.46	3040000	**93.8**	30	-	120	
175	Lu	3	3109636	1.99	3395000	**91.6**	30	-	120	
209	Bi	3	6224781	1.95	7067000	**88.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\167SMPL.D\167SMPL.D#
Date Acquired: May 29 2010 03:40 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-6-B Vial Number: 4407
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.740**	ug/l	7.40	2.6	450	6	P	
60	**Ni**	2	**260.400**	ug/l	2,604.00	0.8	15000	45	P	
63	**Cu**	2	**62.250**	ug/l	622.50	0.9	15000	45	P	
66	**Zn**	2	**129.200**	ug/l	1,292.00	1.8	15000	45	P	
78	**Se**	2	**0.826**	ug/l	8.26	51.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5788536	0.67	6852000	**84.5**	30	-	120	
45	Sc	1	56463	0.68	249000	**22.7**	30	-	120	**IS Fail**
45	Sc	2	226850	0.81	274900	**82.5**	30	-	120	
74	Ge	1	38009	2.67	197500	**19.2**	30	-	120	**IS Fail**
74	Ge	2	355595	0.79	437500	**81.3**	30	-	120	
74	Ge	3	1550523	0.69	1769000	**87.6**	30	-	120	
103	Rh	2	697124	1.37	847200	**82.3**	30	-	120	
103	Rh	3	1365365	0.66	1574000	**86.7**	30	-	120	
165	Ho	3	2856324	0.75	3040000	**94.0**	30	-	120	
175	Lu	3	3125089	0.82	3395000	**92.0**	30	-	120	
209	Bi	3	6302369	0.46	7067000	**89.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\168SMPL.D\168SMPL.D#
Date Acquired: May 29 2010 03:46 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-7-B Vial Number: 4408
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**1.191**	ug/l	11.91	3.5	450	6	P	
60	**Ni**	2	**965.900**	ug/l	9,659.00	0.8	15000	45	P	
63	**Cu**	2	**78.980**	ug/l	789.80	1.0	15000	45	P	
66	**Zn**	2	**1936.000**	ug/l	19,360.00	0.7	15000	45	P	
78	**Se**	2	**1.251**	ug/l	12.51	61.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5662868	1.63	6852000	**82.6**	30	-	120	
45	Sc	1	63539	2.40	249000	**25.5**	30	-	120	**IS Fail**
45	Sc	2	236597	0.39	274900	**86.1**	30	-	120	
74	Ge	1	40366	1.26	197500	**20.4**	30	-	120	**IS Fail**
74	Ge	2	346892	1.26	437500	**79.3**	30	-	120	
74	Ge	3	1525547	0.62	1769000	**86.2**	30	-	120	
103	Rh	2	660407	0.95	847200	**78.0**	30	-	120	
103	Rh	3	1304151	0.82	1574000	**82.9**	30	-	120	
165	Ho	3	2836996	0.08	3040000	**93.3**	30	-	120	
175	Lu	3	3073311	1.64	3395000	**90.5**	30	-	120	
209	Bi	3	6013539	1.34	7067000	**85.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\169SMPL.D\169SMPL.D#
Date Acquired: May 29 2010 03:52 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-8-B Vial Number: 4409
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.320**	ug/l	3.20	3.0	450	6	P	
60	**Ni**	2	**2279.000**	ug/l	22,790.00	1.8	15000	45	A	
63	**Cu**	2	**27.880**	ug/l	278.80	0.5	15000	45	P	
66	**Zn**	2	**89.260**	ug/l	892.60	1.6	15000	45	P	
78	**Se**	2	**0.605**	ug/l	6.05	141.1	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5467680	1.08	6852000	**79.8**	30	-	120	
45	Sc	1	60937	3.84	249000	**24.5**	30	-	120	**IS Fail**
45	Sc	2	227651	0.89	274900	**82.8**	30	-	120	
74	Ge	1	38453	3.20	197500	**19.5**	30	-	120	**IS Fail**
74	Ge	2	341573	1.11	437500	**78.1**	30	-	120	
74	Ge	3	1486192	1.92	1769000	**84.0**	30	-	120	
103	Rh	2	654332	1.50	847200	**77.2**	30	-	120	
103	Rh	3	1273653	1.74	1574000	**80.9**	30	-	120	
165	Ho	3	2757527	0.31	3040000	**90.7**	30	-	120	
175	Lu	3	3046889	1.23	3395000	**89.7**	30	-	120	
209	Bi	3	5860138	0.91	7067000	**82.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\170SMPL.D\170SMPL.D#
Date Acquired: May 29 2010 03:58 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-9-B Vial Number: 4410
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **10.00** Final Dil Factor: **10.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.974**	ug/l	9.74	0.7	450	6	P	
60	**Ni**	2	**1248.000**	ug/l	12,480.00	1.2	15000	45	A	
63	**Cu**	2	**55.530**	ug/l	555.30	0.7	15000	45	P	
66	**Zn**	2	**123.400**	ug/l	1,234.00	1.8	15000	45	P	
78	**Se**	2	**1.984**	ug/l	19.84	34.3	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5614688	0.66	6852000	**81.9**	30	-	120	
45	Sc	1	63004	2.98	249000	**25.3**	30	-	120	**IS Fail**
45	Sc	2	239906	1.15	274900	**87.3**	30	-	120	
74	Ge	1	38136	3.13	197500	**19.3**	30	-	120	**IS Fail**
74	Ge	2	349706	1.71	437500	**79.9**	30	-	120	
74	Ge	3	1518120	1.68	1769000	**85.8**	30	-	120	
103	Rh	2	664253	1.38	847200	**78.4**	30	-	120	
103	Rh	3	1303976	0.24	1574000	**82.8**	30	-	120	
165	Ho	3	2792226	1.99	3040000	**91.8**	30	-	120	
175	Lu	3	3049644	0.30	3395000	**89.8**	30	-	120	
209	Bi	3	5977550	0.34	7067000	**84.6**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\171SMPL.D\171SMPL.D#
Date Acquired: May 29 2010 04:04 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**47.310**	ug/l	47.31	1.4	450	6	P	
60	**Ni**	2	**51.430**	ug/l	51.43	1.9	15000	45	P	
63	**Cu**	2	**51.330**	ug/l	51.33	1.7	15000	45	P	
66	**Zn**	2	**50.250**	ug/l	50.25	2.2	15000	45	P	
78	**Se**	2	**47.280**	ug/l	47.28	4.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5931678	2.05	6852000	**86.6**	30	-	120	
45	Sc	1	55405	1.71	249000	**22.3**	30	-	120	**IS Fail**
45	Sc	2	224478	0.57	274900	**81.7**	30	-	120	
74	Ge	1	39249	2.41	197500	**19.9**	30	-	120	**IS Fail**
74	Ge	2	374265	0.74	437500	**85.5**	30	-	120	
74	Ge	3	1641611	1.46	1769000	**92.8**	30	-	120	
103	Rh	2	733118	1.84	847200	**86.5**	30	-	120	
103	Rh	3	1436844	1.69	1574000	**91.3**	30	-	120	
165	Ho	3	2934116	0.33	3040000	**96.5**	30	-	120	
175	Lu	3	3230030	0.97	3395000	**95.1**	30	-	120	
209	Bi	3	6661236	1.05	7067000	**94.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\172SMPL.D\172SMPL.D#
Date Acquired: May 29 2010 04:10 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.024**	ug/l	0.02	33.7	450	6	P	
60	**Ni**	2	**0.308**	ug/l	0.31	24.3	15000	45	P	
63	**Cu**	2	**0.037**	ug/l	0.04	27.4	15000	45	P	
66	**Zn**	2	**0.270**	ug/l	0.27	51.0	15000	45	P	
78	**Se**	2	**-0.323**	ug/l	-0.32	166.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6004013	1.04	6852000	**87.6**	30	-	120	
45	Sc	1	55101	1.65	249000	**22.1**	30	-	120	**IS Fail**
45	Sc	2	225715	0.29	274900	**82.1**	30	-	120	
74	Ge	1	40670	0.60	197500	**20.6**	30	-	120	**IS Fail**
74	Ge	2	379262	0.91	437500	**86.7**	30	-	120	
74	Ge	3	1607753	0.23	1769000	**90.9**	30	-	120	
103	Rh	2	757181	1.14	847200	**89.4**	30	-	120	
103	Rh	3	1442245	0.78	1574000	**91.6**	30	-	120	
165	Ho	3	2926349	0.80	3040000	**96.3**	30	-	120	
175	Lu	3	3272200	1.51	3395000	**96.4**	30	-	120	
209	Bi	3	6779968	0.17	7067000	**95.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\173SMPL.D\173SMPL.D#
Date Acquired: May 29 2010 04:16 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-10-B Vial Number: 4501
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.761**	ug/l	0.76	1.3	450	6	P	
60	**Ni**	2	**553.800**	ug/l	553.80	0.6	15000	45	P	
63	**Cu**	2	**51.510**	ug/l	51.51	1.1	15000	45	P	
66	**Zn**	2	**149.400**	ug/l	149.40	0.8	15000	45	P	
78	**Se**	2	**-0.015**	ug/l	-0.01	1072.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5830535	0.62	6852000	**85.1**	30	-	120	
45	Sc	1	57450	0.58	249000	**23.1**	30	-	120	**IS Fail**
45	Sc	2	230554	0.75	274900	**83.9**	30	-	120	
74	Ge	1	38149	2.12	197500	**19.3**	30	-	120	**IS Fail**
74	Ge	2	356760	0.56	437500	**81.5**	30	-	120	
74	Ge	3	1548167	0.70	1769000	**87.5**	30	-	120	
103	Rh	2	689523	1.59	847200	**81.4**	30	-	120	
103	Rh	3	1330746	1.26	1574000	**84.5**	30	-	120	
165	Ho	3	2843691	0.64	3040000	**93.5**	30	-	120	
175	Lu	3	3102936	1.18	3395000	**91.4**	30	-	120	
209	Bi	3	6247672	1.28	7067000	**88.4**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\174SMPL.D\174SMPL.D#
Date Acquired: May 29 2010 04:22 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-11-B Vial Number: 4502
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.830**	ug/l	0.83	2.9	450	6	P	
60	**Ni**	2	**1466.000**	ug/l	1,466.00	2.1	15000	45	A	
63	**Cu**	2	**64.770**	ug/l	64.77	0.8	15000	45	P	
66	**Zn**	2	**131.000**	ug/l	131.00	1.5	15000	45	P	
78	**Se**	2	**1.424**	ug/l	1.42	69.6	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5537393	0.81	6852000	**80.8**	30	-	120	
45	Sc	1	57986	2.18	249000	**23.3**	30	-	120	**IS Fail**
45	Sc	2	230232	0.79	274900	**83.8**	30	-	120	
74	Ge	1	36701	2.73	197500	**18.6**	30	-	120	**IS Fail**
74	Ge	2	348599	0.66	437500	**79.7**	30	-	120	
74	Ge	3	1527311	1.90	1769000	**86.3**	30	-	120	
103	Rh	2	669476	0.92	847200	**79.0**	30	-	120	
103	Rh	3	1308829	0.76	1574000	**83.2**	30	-	120	
165	Ho	3	2781740	0.36	3040000	**91.5**	30	-	120	
175	Lu	3	3042606	0.23	3395000	**89.6**	30	-	120	
209	Bi	3	5982965	0.47	7067000	**84.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\175SMPL.D\175SMPL.D#
Date Acquired: May 29 2010 04:28 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-12-B Vial Number: 4503
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.644**	ug/l	0.64	6.6	450	6	P	
60	**Ni**	2	**1209.000**	ug/l	1,209.00	1.2	15000	45	P	
63	**Cu**	2	**43.010**	ug/l	43.01	0.3	15000	45	P	
66	**Zn**	2	**127.400**	ug/l	127.40	0.7	15000	45	P	
78	**Se**	2	**0.098**	ug/l	0.10	297.4	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5549474	0.36	6852000	**81.0**	30	-	120	
45	Sc	1	53339	1.64	249000	**21.4**	30	-	120	**IS Fail**
45	Sc	2	224140	0.09	274900	**81.5**	30	-	120	
74	Ge	1	35154	0.70	197500	**17.8**	30	-	120	**IS Fail**
74	Ge	2	349149	1.12	437500	**79.8**	30	-	120	
74	Ge	3	1510450	0.87	1769000	**85.4**	30	-	120	
103	Rh	2	667558	0.68	847200	**78.8**	30	-	120	
103	Rh	3	1295251	0.59	1574000	**82.3**	30	-	120	
165	Ho	3	2788394	0.88	3040000	**91.7**	30	-	120	
175	Lu	3	3048343	0.79	3395000	**89.8**	30	-	120	
209	Bi	3	6014121	0.36	7067000	**85.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\176SMPL.D\176SMPL.D#
Date Acquired: May 29 2010 04:35 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-13-B Vial Number: 4504
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.015**	ug/l	0.01	6.6	450	6	P	
60	**Ni**	2	**3742.000**	ug/l	3,742.00	2.2	15000	45	A	
63	**Cu**	2	**17.050**	ug/l	17.05	1.1	15000	45	P	
66	**Zn**	2	**45.840**	ug/l	45.84	2.0	15000	45	P	
78	**Se**	2	**0.460**	ug/l	0.46	59.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5310523	0.48	6852000	**77.5**	30	-	120	
45	Sc	1	57005	2.28	249000	**22.9**	30	-	120	**IS Fail**
45	Sc	2	212528	2.40	274900	**77.3**	30	-	120	
74	Ge	1	36544	0.71	197500	**18.5**	30	-	120	**IS Fail**
74	Ge	2	325346	2.62	437500	**74.4**	30	-	120	
74	Ge	3	1411408	1.18	1769000	**79.8**	30	-	120	
103	Rh	2	622240	1.38	847200	**73.4**	30	-	120	
103	Rh	3	1228333	0.22	1574000	**78.0**	30	-	120	
165	Ho	3	2587965	0.61	3040000	**85.1**	30	-	120	
175	Lu	3	2867042	0.08	3395000	**84.4**	30	-	120	
209	Bi	3	5496388	0.73	7067000	**77.8**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\177SMPL.D\177SMPL.D#
Date Acquired: May 29 2010 04:41 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-14-B Vial Number: 4505
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.638**	ug/l	0.64	5.4	450	6	P	
60	**Ni**	2	**4605.000**	ug/l	4,605.00	0.7	15000	45	A	
63	**Cu**	2	**27.130**	ug/l	27.13	0.7	15000	45	P	
66	**Zn**	2	**85.070**	ug/l	85.07	1.4	15000	45	P	
78	**Se**	2	**0.824**	ug/l	0.82	52.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5200093	1.79	6852000	**75.9**	30	-	120	
45	Sc	1	53949	2.31	249000	**21.7**	30	-	120	**IS Fail**
45	Sc	2	224823	0.82	274900	**81.8**	30	-	120	
74	Ge	1	34044	2.28	197500	**17.2**	30	-	120	**IS Fail**
74	Ge	2	334452	1.15	437500	**76.4**	30	-	120	
74	Ge	3	1464505	0.47	1769000	**82.8**	30	-	120	
103	Rh	2	652703	1.69	847200	**77.0**	30	-	120	
103	Rh	3	1259513	1.15	1574000	**80.0**	30	-	120	
165	Ho	3	2743686	0.41	3040000	**90.3**	30	-	120	
175	Lu	3	3018394	0.75	3395000	**88.9**	30	-	120	
209	Bi	3	5928233	1.10	7067000	**83.9**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\178SMPL.D\178SMPL.D#
Date Acquired: May 29 2010 04:47 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-15-B Vial Number: 4506
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.660**	ug/l	0.66	1.5	450	6	P	
60	**Ni**	2	**853.600**	ug/l	853.60	0.2	15000	45	P	
63	**Cu**	2	**83.330**	ug/l	83.33	0.9	15000	45	P	
66	**Zn**	2	**146.100**	ug/l	146.10	0.5	15000	45	P	
78	**Se**	2	**0.324**	ug/l	0.32	191.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5517274	0.98	6852000	**80.5**	30	-	120	
45	Sc	1	54150	1.48	249000	**21.7**	30	-	120	**IS Fail**
45	Sc	2	218914	1.21	274900	**79.6**	30	-	120	
74	Ge	1	34980	2.09	197500	**17.7**	30	-	120	**IS Fail**
74	Ge	2	337789	0.93	437500	**77.2**	30	-	120	
74	Ge	3	1492653	0.15	1769000	**84.4**	30	-	120	
103	Rh	2	655095	1.51	847200	**77.3**	30	-	120	
103	Rh	3	1297147	1.17	1574000	**82.4**	30	-	120	
165	Ho	3	2758702	0.29	3040000	**90.7**	30	-	120	
175	Lu	3	2985711	1.42	3395000	**87.9**	30	-	120	
209	Bi	3	5943562	0.25	7067000	**84.1**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\179SMPL.D\179SMPL.D#
Date Acquired: May 29 2010 04:53 am Acq. Method: 0NEW_ALL.M
Sample Name: CCV Vial Number: 1104
Misc Info: Hg(2.5 PPB),Al(500 PPB),Na(5,000 PPB)

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**46.680**	ug/l	46.68	0.7	450	6	P	
60	**Ni**	2	**51.720**	ug/l	51.72	0.6	15000	45	P	
63	**Cu**	2	**51.300**	ug/l	51.30	1.3	15000	45	P	
66	**Zn**	2	**51.490**	ug/l	51.49	2.8	15000	45	P	
78	**Se**	2	**43.930**	ug/l	43.93	7.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5731343	0.97	6852000	**83.6**	30	-	120	
45	Sc	1	55656	1.50	249000	**22.4**	30	-	120	**IS Fail**
45	Sc	2	215666	0.73	274900	**78.5**	30	-	120	
74	Ge	1	40460	0.09	197500	**20.5**	30	-	120	**IS Fail**
74	Ge	2	361671	1.09	437500	**82.7**	30	-	120	
74	Ge	3	1585338	1.57	1769000	**89.6**	30	-	120	
103	Rh	2	714575	0.96	847200	**84.3**	30	-	120	
103	Rh	3	1397423	1.59	1574000	**88.8**	30	-	120	
165	Ho	3	2916510	2.23	3040000	**95.9**	30	-	120	
175	Lu	3	3166945	0.40	3395000	**93.3**	30	-	120	
209	Bi	3	6551136	0.89	7067000	**92.7**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\180SMPL.D\180SMPL.D#
Date Acquired: May 29 2010 04:59 am Acq. Method: 0NEW_ALL.M
Sample Name: CCB Vial Number: 1306
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.023**	ug/l	0.02	22.4	450	6	P	
60	**Ni**	2	**0.478**	ug/l	0.48	7.3	15000	45	P	
63	**Cu**	2	**0.046**	ug/l	0.05	30.9	15000	45	P	
66	**Zn**	2	**0.261**	ug/l	0.26	40.7	15000	45	P	
78	**Se**	2	**0.130**	ug/l	0.13	315.0	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5672180	2.07	6852000	**82.8**	30	-	120	
45	Sc	1	56992	2.21	249000	**22.9**	30	-	120	**IS Fail**
45	Sc	2	221392	1.64	274900	**80.5**	30	-	120	
74	Ge	1	41741	1.59	197500	**21.1**	30	-	120	**IS Fail**
74	Ge	2	373639	0.91	437500	**85.4**	30	-	120	
74	Ge	3	1587659	0.33	1769000	**89.7**	30	-	120	
103	Rh	2	750384	1.59	847200	**88.6**	30	-	120	
103	Rh	3	1428105	0.51	1574000	**90.7**	30	-	120	
165	Ho	3	2895690	0.51	3040000	**95.3**	30	-	120	
175	Lu	3	3170071	1.85	3395000	**93.4**	30	-	120	
209	Bi	3	6662228	0.20	7067000	**94.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\181SMPL.D\181SMPL.D#
Date Acquired: May 29 2010 05:05 am Acq. Method: 0NEW_ALL.M
Sample Name: ICSA Vial Number: 1101
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.008**	ug/l	0.01	27.4	450	6	P	
60	**Ni**	2	**2.769**	ug/l	2.77	6.9	15000	45	P	
63	**Cu**	2	**3.938**	ug/l	3.94	2.4	15000	45	P	
66	**Zn**	2	**3.381**	ug/l	3.38	4.4	15000	45	P	
78	**Se**	2	**-0.273**	ug/l	-0.27	60.8	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5258028	0.57	6852000	**76.7**	30	-	120	
45	Sc	1	56077	1.77	249000	**22.5**	30	-	120	**IS Fail**
45	Sc	2	213813	0.99	274900	**77.8**	30	-	120	
74	Ge	1	38450	0.92	197500	**19.5**	30	-	120	**IS Fail**
74	Ge	2	341813	1.47	437500	**78.1**	30	-	120	
74	Ge	3	1478788	0.43	1769000	**83.6**	30	-	120	
103	Rh	2	610216	2.09	847200	**72.0**	30	-	120	
103	Rh	3	1216515	0.78	1574000	**77.3**	30	-	120	
165	Ho	3	2620026	0.84	3040000	**86.2**	30	-	120	
175	Lu	3	2885240	0.41	3395000	**85.0**	30	-	120	
209	Bi	3	5386660	0.87	7067000	**76.2**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

TA Seattle/Tacoma Sample Report 7500ce ICPMS

Data File: C:\ICPCHEM\1\DATA\052810B.B\182SMPL.D\182SMPL.D#
Date Acquired: May 29 2010 05:11 am Acq. Method: 0NEW_ALL.M
Sample Name: ICSAB Vial Number: 1102
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 01 2010 06:15 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052810B.B\006CALB.D\006CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **1.00** Final Dil Factor: **1.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.002**	ug/l	0.00	184.3	450	6	P	
60	**Ni**	2	**196.200**	ug/l	196.20	0.1	15000	45	P	
63	**Cu**	2	**194.700**	ug/l	194.70	0.5	15000	45	P	
66	**Zn**	2	**99.130**	ug/l	99.13	1.7	15000	45	P	
78	**Se**	2	**105.200**	ug/l	105.20	6.7	450	74	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5293733	2.30	6852000	**77.3**	30	-	120	
45	Sc	1	53018	1.33	249000	**21.3**	30	-	120	**IS Fail**
45	Sc	2	209544	1.52	274900	**76.2**	30	-	120	
74	Ge	1	35278	0.80	197500	**17.9**	30	-	120	**IS Fail**
74	Ge	2	333353	0.98	437500	**76.2**	30	-	120	
74	Ge	3	1491487	1.44	1769000	**84.3**	30	-	120	
103	Rh	2	595603	1.21	847200	**70.3**	30	-	120	
103	Rh	3	1218525	0.04	1574000	**77.4**	30	-	120	
165	Ho	3	2626760	2.04	3040000	**86.4**	30	-	120	
175	Lu	3	2862901	0.43	3395000	**84.3**	30	-	120	
209	Bi	3	5395621	0.85	7067000	**76.3**	30	-	120	

Analytes: **Pass** **ISTD:** **Fail**

0 :Element Failures **0** :Max. Number of Failures Allowed
2 :ISTD Failures **0** :Max. Number of ISTD Failures Allowed

Metals Worksheet

Batch Number: 580-64215
Method: 7471A
Analyst: Boardway, Peter A

Date Open: May 24 2010 1:58PM
Batch End: May 24 2010 3:15PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	Hg_CAL_WORK_00002	SRMsolid_00004
580-19393-A-1	01CMMW	7471A, 7471A	T	0.6130 g	50 mL		
580-19393-A-1~DU	01CMMW	7471A, 7471A	T	0.5616 g	50 mL		
580-19393-A-1~MS	01CMMW	7471A, 7471A	T	0.6945 g	50 mL	1 mL	
580-19393-A-1~MSD	01CMMW	7471A, 7471A	T	0.7195 g	50 mL	1 mL	
580-19393-A-2	02CMSB	7471A, 7471A	T	0.5053 g	50 mL		
580-19393-A-3	03CMMW	7471A, 7471A	T	0.6531 g	50 mL		
580-19393-A-4	04CMSB	7471A, 7471A	T	0.6270 g	50 mL		
580-19393-A-5	05CMMW	7471A, 7471A	T	0.5689 g	50 mL		
580-19393-A-6	06CMSB	7471A, 7471A	T	0.7233 g	50 mL		
580-19393-A-7	07CMMW	7471A, 7471A	T	0.6075 g	50 mL		
580-19393-A-8	01SMMW	7471A, 7471A	T	0.7030 g	50 mL		
580-19393-A-9	02SMSB	7471A, 7471A	T	0.5318 g	50 mL		
580-19393-A-10	04SMMW	7471A, 7471A	T	0.5879 g	50 mL		
580-19393-A-11	05SMSB-B	7471A, 7471A	T	0.7940 g	50 mL		
580-19393-A-12	06SMMW- B	7471A, 7471A	T	0.7670 g	50 mL		
580-19393-A-13	07SMMW	7471A, 7471A	T	0.6481 g	50 mL		
580-19393-A-14	08SMSB	7471A, 7471A	T	0.5989 g	50 mL		
580-19393-A-15	01HMMW	7471A, 7471A	T	0.5268 g	50 mL		
580-19393-A-16	02HMSB	7471A, 7471A	T	0.8501 g	50 mL		
580-19393-A-21	09SMMW	7471A, 7471A	T	0.6713 g	50 mL		
MB~580-64215/21		7471A, 7471A		0.5 g	50 mL		
LCS~580-64215/22		7471A, 7471A		0.5 g	50 mL	1 mL	
LCSD~580-64215/23		7471A, 7471A		0.5 g	50 mL	1 mL	
LCSSRM~580-64215/24		7471A, 7471A		0.1047 g	50 mL		0.1047 g

Digestion Tube/Cup Lot #:	100121	Stannous Chloride Lot Number:	076262
Hot Block ID number:	38010	Oven, Bath or Block Temperature 1:	94.4 CORRECTED-TEMP
Hood ID or number:	06	NaCL Lot #:	080787
Balance ID:	SEA204	Hydroxylamine Hydrochloride Lot:	094946
Lot # of Nitric Acid:	H02036		
ID number of the thermometer:	15-041-1A		
Lot # of hydrochloric acid:	G39A12		
Potassium Permanganate Lot Number:	082890		
Sulfuric Acid Lot Number:	3108030		
Potassium Persulfate Lot Number:	060384		

Metals Worksheet

Batch Number: 580-64447
Method: 3050B
Analyst: Boardway, Peter A

Date Open: May 26 2010 4:03PM
Batch End: May 26 2010 5:45PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	m-GPS-1_00015	m-GPS-2_00012	m-GPS-3_00013	m-GPS-4_00014
580-19393-A-1	01CMMW	3050B, 6020	T	1.1941 g	50 mL				
580-19393-A-1~DU	01CMMW	3050B, 6020	T	1.2279 g	50 mL				
580-19393-A-1~MS	01CMMW	3050B, 6020	T	1.1393 g	50 mL	1 mL	1 mL	1 mL	1 mL
580-19393-A-1~MSD	01CMMW	3050B, 6020	T	1.1271 g	50 mL	1 mL	1 mL	1 mL	1 mL
580-19393-A-2	02CMSB	3050B, 6020	T	1.0115 g	50 mL				
580-19393-A-3	03CMMW	3050B, 6020	T	1.1636 g	50 mL				
580-19393-A-4	04CMSB	3050B, 6020	T	1.2950 g	50 mL				
580-19393-A-5	05CMMW	3050B, 6020	T	1.2782 g	50 mL				
580-19393-A-6	06CMSB	3050B, 6020	T	1.4633 g	50 mL				
580-19393-A-7	07CMMW	3050B, 6020	T	1.1898 g	50 mL				
580-19393-A-8	01SMMW	3050B, 6020	T	1.3451 g	50 mL				
580-19393-A-9	02SMSB	3050B, 6020	T	1.2294 g	50 mL				
580-19393-A-10	04SMMW	3050B, 6020	T	1.2395 g	50 mL				
580-19393-A-11	05SMSB-B	3050B, 6020	T	1.0635 g	50 mL				
580-19393-A-12	06SMMW- B	3050B, 6020	T	1.3061 g	50 mL				
580-19393-A-13	07SMMW	3050B, 6020	T	1.1878 g	50 mL				
580-19393-A-14	08SMSB	3050B, 6020	T	1.5819 g	50 mL				
580-19393-A-15	01HMMW	3050B, 6020	T	1.1949 g	50 mL				
580-19393-A-16	02HMSB	3050B, 6020	T	1.3388 g	50 mL				
580-19393-A-17	04HMMW	3050B, 6020	T	1.5847 g	50 mL				
MB~580-64447/21		3050B, 6020		1.0 g	50 mL				
LCS~580-64447/22		3050B, 6020		1.0 g	50 mL	1 mL	1 mL	1 mL	1 mL
LCSD~580-64447/23		3050B, 6020		1.0 g	50 mL	1 mL	1 mL	1 mL	1 mL
LCSSRM~580-64447/24		3050B, 6020		0.5225 g	50 mL				

Metals Worksheet

Batch Number: 580-64447
Method: 3050B
Analyst: Boardway, Peter A

Date Open: May 26 2010 4:03PM
Batch End: May 26 2010 5:45PM

Lab ID	Client ID	Method Chain	Basis	MS-HgSpk_00008	SRMsolid_00004
580-19393-A-1	01CMMW	3050B, 6020	T		
580-19393-A-1~DU	01CMMW	3050B, 6020	T		
580-19393-A-1~MS	01CMMW	3050B, 6020	T	1 mL	
580-19393-A-1~MSD	01CMMW	3050B, 6020	T	1 mL	
580-19393-A-2	02CMSB	3050B, 6020	T		
580-19393-A-3	03CMMW	3050B, 6020	T		
580-19393-A-4	04CMSB	3050B, 6020	T		
580-19393-A-5	05CMMW	3050B, 6020	T		
580-19393-A-6	06CMSB	3050B, 6020	T		
580-19393-A-7	07CMMW	3050B, 6020	T		
580-19393-A-8	01SMMW	3050B, 6020	T		
580-19393-A-9	02SMSB	3050B, 6020	T		
580-19393-A-10	04SMMW	3050B, 6020	T		
580-19393-A-11	05SMSB-B	3050B, 6020	T		
580-19393-A-12	06SMMW- B	3050B, 6020	T		
580-19393-A-13	07SMMW	3050B, 6020	T		
580-19393-A-14	08SMSB	3050B, 6020	T		
580-19393-A-15	01HMMW	3050B, 6020	T		
580-19393-A-16	02HMSB	3050B, 6020	T		
580-19393-A-17	04HMMW	3050B, 6020	T		
MB~580-64447/21		3050B, 6020			
LCS~580-64447/22		3050B, 6020		1 mL	
LCSD~580-64447/23		3050B, 6020		1 mL	
LCSSRM~580-64447/24		3050B, 6020			0.5225 g

Digestion Tube/Cup Lot #:	100121	Pipette ID:	mp1
Balance ID:	SEA204		
Hood ID or number:	06		
Hot Block ID number:	38008		
Lot # of hydrochloric acid:	H42A18		
Lot # of Nitric Acid:	G44027		
Logbook ID for diluted Nitric:	S002		
Hydrogen peroxide lot number:	S007		
ID number of the thermometer:	15-041-1A-A		
Temperature:	94.9 Degrees C		

Metals Worksheet

Batch Number: 580-64500
Method: 7471A
Analyst: Boritz, Ben A

Date Open: May 27 2010 10:21AM
Batch End: May 27 2010 11:30AM

Lab ID	Client ID	Method Chain	Basis	Target Amount of Sample to Use	Initial weight/volume of sample	Final weight/volume of sample	Hg_SPK_WORK_00002	SRMsolid_00004
580-19393-A-17	04HMMW	7471A, 7471A	T	11.0042 g	0.8209 g	50 mL		
580-19393-A-17~DU	04HMMW	7471A, 7471A	T		0.6172 g	50 mL		
580-19393-A-17~MS	04HMMW	7471A, 7471A	T		0.7563 g	50 mL	1 mL	
580-19393-A-17~MSD	04HMMW	7471A, 7471A	T		0.7667 g	50 mL	1 mL	
580-19393-A-18	05HMSB	7471A, 7471A	T	12.8788 g	0.6350 g	50 mL		
580-19393-A-19	07HMMWB	7471A, 7471A	T	11.3134 g	0.7369 g	50 mL		
580-19393-A-20	08HMSB	7471A, 7471A	T	10.8143 g	0.8196 g	50 mL		
580-19399-A-1			T	11.9469 g	0.8031 g	50 mL		
580-19399-A-2			T	14.1469 g	0.7163 g	50 mL		
580-19399-A-3			T	11.8991 g	0.7213 g	50 mL		
580-19399-A-4			T	10.1903 g	0.8526 g	50 mL		
580-19399-A-5			T	11.0052 g	0.5914 g	50 mL		
580-19399-A-6			T	10.9016 g	0.5813 g	50 mL		
580-19399-A-7			T	11.041 g	0.6533 g	50 mL		
580-19399-A-8			T	12.7936 g	0.7961 g	50 mL		
580-19399-A-11			T	10.8528 g	0.6465 g	50 mL		
580-19399-A-13			T	10.7855 g	0.6885 g	50 mL		
580-19399-A-14			T	10.4521 g	0.6923 g	50 mL		
580-19399-A-15			T	10.4957 g	0.7532 g	50 mL		
580-19399-A-16			T	11.1935 g	0.8363 g	50 mL		
580-19399-A-17			T	10.6034 g	0.5282 g	50 mL		
580-19399-A-18			T	10.879 g	0.8910 g	50 mL		
580-19399-A-19			T	12.4981 g	0.5739 g	50 mL		
MB~580-64500/24		7471A, 7471A			0.5 g	50 mL		
LCS~580-64500/25		7471A, 7471A			.5 g	50 mL	1 mL	

Metals Worksheet

Batch Number: 580-64500
Method: 7471A
Analyst: Boritz, Ben A

Date Open: May 27 2010 10:21AM
Batch End: May 27 2010 11:30AM

Lab ID	Client ID	Method Chain	Basis	Target Amount of Sample to Use	Initial weight/volume of sample	Final weight/volume of sample	Hg_SPK_WORK_00002	SRMsolid_00004
LCSD~580-64500/26		7471A, 7471A			.5 g	50 mL	1 mL	
LCSSRM~580-64500/27		7471A, 7471A			0.1302 g	50 mL		0.1302 g

Nominal Amount Used:	10 g
Digestion Tube/Cup Lot #:	100121
Hot Block ID number:	38008
Hood ID or number:	06
Balance ID:	SEA211
Lot # of Nitric Acid:	G44027
ID number of the thermometer:	15-041-1A-A
Lot # of hydrochloric acid:	H42A18
Potassium Permanganate Lot Number:	082890
Sulfuric Acid Lot Number:	3108030
Potassium Persulfate Lot Number:	060384
Stannous Chloride Lot Number:	076262
NaCL Lot #:	080787
Hydroxylamine Hydrochloride Lot:	094946

Metals Worksheet

Batch Number: 580-64514
Method: 3050B
Analyst: Boardway, Peter A

Date Open: May 27 2010 12:12PM
Batch End: May 27 2010 1:50PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample	m-GPS-1_00015	m-GPS-2_00012	m-GPS-3_00013	m-GPS-4_00014
580-19393-A-18	05HMSB	3050B, 6020	T	1.1870 g	50 mL				
580-19393-A-18~DU	05HMSB	3050B, 6020	T	1.2142 g	50 mL				
580-19393-A-18~MS	05HMSB	3050B, 6020	T	1.3021 g	50 mL	1 mL	1 mL	1 mL	1 mL
580-19393-A-18~MSD	05HMSB	3050B, 6020	T	1.1618 g	50 mL	1 mL	1 mL	1 mL	1 mL
580-19393-A-19	07HMMWB	3050B, 6020	T	1.2184 g	50 mL				
580-19393-A-20	08HMSB	3050B, 6020	T	1.1846 g	50 mL				
580-19393-A-21	09SMMW	3050B, 6020	T	1.0065 g	50 mL				
580-19399-A-1			T	1.0420 g	50 mL				
580-19399-A-2			T	1.2596 g	50 mL				
580-19399-A-3			T	1.0462 g	50 mL				
580-19399-A-4			T	1.0722 g	50 mL				
580-19399-A-5			T	1.1184 g	50 mL				
580-19399-A-6			T	1.3135 g	50 mL				
580-19399-A-7			T	1.3011 g	50 mL				
580-19399-A-8			T	1.4866 g	50 mL				
580-19399-A-9			T	1.3686 g	50 mL				
580-19399-A-10			T	1.2005 g	50 mL				
580-19399-A-11			T	1.2576 g	50 mL				
580-19399-A-12			T	1.1960 g	50 mL				
580-19399-A-13			T	1.0363 g	50 mL				
MB~580-64514/21		3050B, 6020		1.0 g	50 mL				
LCS~580-64514/22		3050B, 6020		1.0 g	50 mL	1 mL	1 mL	1 mL	1 mL
LCSD~580-64514/23		3050B, 6020		1.0 g	50 mL	1 mL	1 mL	1 mL	1 mL
LCSSRM~580-64514/24		3050B, 6020		0.5119 g	50 mL				

Metals Worksheet

Batch Number: 580-64514
Method: 3050B
Analyst: Boardway, Peter A

Date Open: May 27 2010 12:12PM
Batch End: May 27 2010 1:50PM

Lab ID	Client ID	Method Chain	Basis	MS-HgSpk_00008	SRMsolid_00004
580-19393-A-18	05HMSB	3050B, 6020	T		
580-19393-A-18~DU	05HMSB	3050B, 6020	T		
580-19393-A-18~MS	05HMSB	3050B, 6020	T	1 mL	
580-19393-A-18~MSD	05HMSB	3050B, 6020	T	1 mL	
580-19393-A-19	07HMMWB	3050B, 6020	T		
580-19393-A-20	08HMSB	3050B, 6020	T		
580-19393-A-21	09SMMW	3050B, 6020	T		
580-19399-A-1			T		
580-19399-A-2			T		
580-19399-A-3			T		
580-19399-A-4			T		
580-19399-A-5			T		
580-19399-A-6			T		
580-19399-A-7			T		
580-19399-A-8			T		
580-19399-A-9			T		
580-19399-A-10			T		
580-19399-A-11			T		
580-19399-A-12			T		
580-19399-A-13			T		
MB~580-64514/21		3050B, 6020			
LCS~580-64514/22		3050B, 6020		1 mL	
LCSD~580-64514/23		3050B, 6020		1 mL	
LCSSRM~580-64514/24		3050B, 6020			0.5119 g

Digestion Tube/Cup Lot #:	100121	Pipette ID:	mp1
Balance ID:	SEA204		
Hood ID or number:	06		
Hot Block ID number:	38010		
Lot # of hydrochloric acid:	H42A18		
Lot # of Nitric Acid:	G44027		
Logbook ID for diluted Nitric:	S002		
Hydrogen peroxide lot number:	S007		
ID number of the thermometer:	15-041-1A-A		
Temperature:	94.9 CORRECTED-TEMP Degrees C		

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job Number: 580-19393-1

SDG No.:

Project: Contact & Sonoma Mine Sites

Client Sample ID	Lab Sample ID
01CMMW	580-19393-1
02CMSB	580-19393-2
03CMMW	580-19393-3
04CMSB	580-19393-4
05CMMW	580-19393-5
06CMSB	580-19393-6
07CMMW	580-19393-7
01SMMW	580-19393-8
02SMSB	580-19393-9
04SMMW	580-19393-10
05SMSB-B	580-19393-11
06SMMW- B	580-19393-12
07SMMW	580-19393-13
08SMSB	580-19393-14
01HMMW	580-19393-15
02HMSB	580-19393-16
04HMMW	580-19393-17
05HMSB	580-19393-18
07HMMWB	580-19393-19
08HMSB	580-19393-20
09SMMW	580-19393-21

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job Number: 580-19393-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Analysis Method: Moisture RL Date: 01/01/2005 13:13

Prep Method:

Leach Method:

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/25/2010 14:22 End Date: 05/25/2010 14:22

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			14:22																				
ZZZZZZ			14:22																				
ZZZZZZ			14:22																				
ZZZZZZ			14:22																				
ZZZZZZ			14:22																				
ZZZZZZ			14:22																				
ZZZZZZ			14:22																				
ZZZZZZ			14:22																				
ZZZZZZ			14:22																				
ZZZZZZ			14:22																				
ZZZZZZ			14:22																				
ZZZZZZ			14:22																				
580-19393-18	1	T	14:22	X	X																		

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job No.: 580-19393-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/25/2010 15:09 End Date: 05/25/2010 15:09

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
580-19393-1	1	T	15:09	X	X																		
580-19393-2	1	T	15:09	X	X																		
580-19393-3	1	T	15:09	X	X																		
580-19393-3 DU	1	T	15:09	X	X																		
580-19393-4	1	T	15:09	X	X																		
580-19393-5	1	T	15:09	X	X																		
580-19393-6	1	T	15:09	X	X																		
580-19393-7	1	T	15:09	X	X																		
580-19393-8	1	T	15:09	X	X																		
580-19393-9	1	T	15:09	X	X																		
580-19393-10	1	T	15:09	X	X																		
580-19393-11	1	T	15:09	X	X																		
580-19393-12	1	T	15:09	X	X																		
580-19393-13	1	T	15:09	X	X																		
580-19393-14	1	T	15:09	X	X																		
580-19393-15	1	T	15:09	X	X																		
580-19393-16	1	T	15:09	X	X																		
580-19393-17	1	T	15:09	X	X																		
580-19393-19	1	T	15:09	X	X																		
580-19393-20	1	T	15:09	X	X																		
580-19393-21	1	T	15:09	X	X																		

Prep Types
T = Total/NA

General Chemistry Worksheet

Batch Number: 580-64333
Method: Moisture
Analyst: Teffeau, Kristine

Date Open: May 25 2010 2:22PM
Batch End: May 25 2010 6:47PM

Lab ID	Client ID	Method Chain	Basis	Empty Dish Weight	Mass of wet Sample	Mass of Dry Sample
580-19523-A-1			T	0.7937 g	12.2282 g	11.9419 g
580-19523-A-2			T	0.7812 g	8.4969 g	6.3465 g
580-19523-A-3			T	0.7656 g	13.3718 g	12.9833 g
580-19523-A-4			T	0.7870 g	13.4494 g	12.8077 g
580-19523-A-5			T	0.8050 g	11.9794 g	11.4996 g
580-19523-A-6			T	0.7767 g	9.0640 g	8.2341 g
580-19523-A-7			T	0.7780 g	10.4920 g	9.2338 g
580-19523-A-8			T	0.7740 g	10.8572 g	9.9176 g
580-19523-A-9			T	0.7728 g	11.9502 g	11.4007 g
580-19403-C-5			T	0.7816 g	11.1923 g	5.2692 g
580-19403-C-5~DU			T	0.7760 g	9.3686 g	4.5921 g
580-19403-C-6			T	0.7851 g	18.8121 g	16.8251 g
580-19393-A-18	05HMSB	Moisture	T	0.7766 g	11.6958 g	9.2550 g

Balance ID:	sea207 No Unit
Date samples were place in the oven:	5/25/10
Time samples were place in the oven:	1457
Oven Temp when samples are put in oven:	102.5 Degrees C
Date samples were removed from oven:	5/25/10
Time Samples were removed from oven:	1840
Oven Temp when samples removed from oven:	104.5 Degrees C
Oven ID:	sea302
ID number of the thermometer:	3a4824

General Chemistry Worksheet

Batch Number: 580-64347
Method: Moisture
Analyst: Teffeau, Kristine

Date Open: May 25 2010 3:09PM
Batch End: May 26 2010 11:34AM

Lab ID	Client ID	Method Chain	Basis	Empty Dish Weight	Mass of wet Sample	Mass of Dry Sample
580-19393-A-1	01CMMW	Moisture	T	0.7710 g	9.4498 g	8.3672 g
580-19393-A-2	02CMSB	Moisture	T	0.7647 g	9.7904 g	9.1027 g
580-19393-A-3	03CMMW	Moisture	T	0.7597 g	22.3782 g	18.1727 g
580-19393-A-3~DU	03CMMW	Moisture	T	0.7735 g	20.8119 g	16.8547 g
580-19393-A-4	04CMSB	Moisture	T	0.7755 g	12.3802 g	11.2694 g
580-19393-A-5	05CMMW	Moisture	T	0.7812 g	13.3266 g	10.4547 g
580-19393-A-6	06CMSB	Moisture	T	0.7886 g	20.1963 g	15.8039 g
580-19393-A-7	07CMMW	Moisture	T	0.7892 g	12.7560 g	11.8983 g
580-19393-A-8	01SMMW	Moisture	T	0.7930 g	14.4343 g	12.1756 g
580-19393-A-9	02SMSB	Moisture	T	0.7959 g	11.6037 g	9.5772 g
580-19393-A-10	04SMMW	Moisture	T	0.7886 g	13.0342 g	10.0395 g
580-19393-A-11	05SMSB-B	Moisture	T	0.7935 g	13.9110 g	10.4387 g
580-19393-A-12	06SMMW- B	Moisture	T	0.7847 g	13.2909 g	10.7852 g
580-19393-A-13	07SMMW	Moisture	T	0.7989 g	10.0254 g	8.8593 g
580-19393-A-14	08SMSB	Moisture	T	0.7764 g	14.4403 g	11.1641 g
580-19393-A-15	01HMMW	Moisture	T	0.7877 g	16.1704 g	12.0098 g
580-19393-A-16	02HMSB	Moisture	T	0.7744 g	13.0404 g	9.7927 g
580-19393-A-17	04HMMW	Moisture	T	0.7717 g	17.6118 g	16.0751 g
580-19393-A-19	07HMMWB	Moisture	T	0.7958 g	10.6645 g	9.5188 g
580-19393-A-20	08HMSB	Moisture	T	0.7711 g	11.3294 g	10.5344 g
580-19393-A-21	09SMMW	Moisture	T	0.7745 g	17.1637 g	13.7786 g

Balance ID:	sea207 No Unit
Date samples were place in the oven:	5/25/10
Time samples were place in the oven:	1636
Oven Temp when samples are put in oven:	101.5 Degrees C
Date samples were removed from oven:	5/26/10
Time Samples were removed from oven:	1125
Oven Temp when samples removed from oven:	103.5 Degrees C
Oven ID:	sea302
ID number of the thermometer:	3a4824

Subcontract Data

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE:	LEVEL IV
PREPARED FOR:	TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER:	ITE2408
PROJECT:	ERM-WEST SACRAMENTO SONOMA MINE SITES

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 www.testamericainc.com

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

Case Narrative

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 **www.testamericainc.com**

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THE LEADER IN ENVIRONMENTAL TESTING

CASE NARRATIVE

Client:	TestAmerica Seattle	**Date Sampled:**	5/11/2010 to 4/24/2010
Project:	ERM-West Sacramento Sonoma Mine Sites	**Date Received:**	5/25/2010
Lab:	ITE2408		

SAMPLE RECEIPT: Samples were received intact, on ice, with custody seals, and with chain of custody number 580-3464.1. The sample temperature was measured at 2.2° C upon receipt at the laboratory.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PROBLEMS ENCOUNTERED: No problems were encountered during sample analysis.

QA/QC CRITERIA: Potassium was detected above the reporting limit in the Method Blank of batch 10F0084.

The MS and/or MSD recoveries for Mercury were below acceptance limits due to sample matrix interference for 7470A-STLC QC batch 10F0103. See LCS.

Due to high levels of Calcium, Iron, and Magnesium in the source, samples 10F0084-MS1 and –MSD1 do not provide useful spike recovery information for EPA 6010B QC batch 10F0084. See LCS.

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

TestAmerica Irvine

Kathleen A. Robb For Theresa Tyrrell
PM
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.

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THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

Sample Cross Reference

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: TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Attention: Kate Haney

Project:Sonoma Mine Sites

Sampled: 04/24/10-05/11/10
Received: 05/25/10
Issued: 06/04/10 10:30

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

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
ITE2408-01	02CMSB	Solid
ITE2408-02	04CMSB	Solid
ITE2408-03	06CMSB	Solid
ITE2408-04	02SMSB	Solid
ITE2408-05	05SMSB-B	Solid
ITE2408-06	08SMSB	Solid
ITE2408-07	02HMSB	Solid
ITE2408-08	05HMSB	Solid
ITE2408-09	08HMSB	Solid
ITE2408-10	09SMMW	Solid

Reviewed By:

TestAmerica Irvine

Kathleen A. Robb For Theresa Tyrrell
PM

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

Chain of Custody

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 www.testamericainc.com

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

*Irvine

14161

Chain of Custody Record

37E2410F

TestAmerica

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Torres, Terri L	Carrier Tracking No(s):	COC No: 580-3464.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: terri.torres@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 580-19393-1
Address: 1220 Quarry Lane, ,	Due Date Requested: 6/2/2010			
City: Pleasanton	TAT Requested (days):			
State, Zip: CA, 94566				
Phone: 925-484-1919(Tel) 925-600-3002(Fax)	PO #: 580-19393			
Email:	WO #:			
Project Name: Helen Mercury Mine and Sonoma Mercury Mi	Project #: 58003837			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

1.6°C

Sample Identification - Client ID	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010B/DI_LEACH DI CA WET - TAL Metals	7470A/DI_LEACH DI CA WET - Mercury	Total Number of containers	Special Instructions/Note:
				Preservation Code:						
02CMSB	4/26/10	12:26 Pacific		Solid			X	X	1	
04CMSB	5/2/10	13:25 Pacific		Solid			X	X	1	
06CMSB	5/3/10	13:00 Pacific		Solid			X	X	1	
02SMSB	4/24/10	11:30 Pacific		Solid			X	X	1	
05SMSB-B	4/26/10	09:10 Pacific		Solid			X	X	1	
08SMSB	4/25/10	15:17 Pacific		Solid			X	X	1	
02HMSB	5/8/10	08:38 Pacific		Solid			X	X	1	
05HMSB	5/11/10	13:15 Pacific		Solid			X	X	1	
08HMSB	5/7/10	15:40 Pacific		Solid			X	X	1	
09SMMW	4/25/10	14:16 Pacific		Solid			X	X	1	

5/22/10 11:15

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Kresley	5/21/10	TASeattle	Johnrich Medina	5/22/10@11:15	TASF
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	5/24/10 - 1630	TASF		5/25/10 10:40	TAT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: CS 2.2 1.6°C 25V03

Analysis Group Description	Method Description
Soil/Sediment	Metals (ICP)

Analyte Description
Silver
Aluminum
Arsenic
Barium
Beryllium
Calcium ~ 6010 STLC
Cadmium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium 6010 - STLC
Manganese
Nickel
Potassium 6010 - STLC
Selenium
~~Sodium 6010 - STLC~~
Thallium
Vanadium
Zinc
Antimony

Soil/Sediment	Preparation, Total Recoverable or Dissolved Metals
Soil/Sediment	California - Waste Extraction Test with Citrate Leach
Soil/Sediment	Mercury (CVAA)

Analyte Description
Mercury

Soil/Sediment	Preparation, Mercury
Soil/Sediment	California - Waste Extraction Test with Citrate Leach

NO Sodium
per Seattle
5/26/10

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

Analytical Report

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 www.testamericainc.com

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

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Attention: Kate Haney

Project ID: Sonoma Mine Sites

Report Number: ITE2408

Sampled: 04/24/10-05/11/10
Received: 05/25/10

STLC METALS

Analyte	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	STLC Limit	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITE2408-01 (02CMSB - Solid)					**Sampled: 04/26/10**				
Reporting Units: mg/l									
Aluminum	10F0084	0.80	1.0	**17**	1	NA	6/1/2010	6/1/2010	
Mercury	10F0103	0.0010	0.0020	**0.017**	1	0.20	6/1/2010	6/1/2010	
Antimony	10F0084	0.14	0.20	ND	1	15	6/1/2010	6/1/2010	
Arsenic	10F0084	0.13	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Barium	10F0084	0.12	0.20	**7.0**	1	100	6/1/2010	6/1/2010	
Beryllium	10F0084	0.018	0.080	ND	1	0.75	6/1/2010	6/1/2010	
Cadmium	10F0084	0.040	0.10	ND	1	1.0	6/1/2010	6/1/2010	
Calcium	10F0084	1.0	2.0	**94**	1	NA	6/1/2010	6/1/2010	MHA
Chromium	10F0084	0.040	0.10	**0.94**	1	5.0	6/1/2010	6/1/2010	
Cobalt	10F0084	0.040	0.20	**1.5**	1	80	6/1/2010	6/1/2010	
Copper	10F0084	0.060	0.20	**0.22**	1	25	6/1/2010	6/1/2010	
Iron	10F0084	0.30	0.80	**93**	1	NA	6/1/2010	6/1/2010	MHA
Lead	10F0084	0.080	0.10	ND	1	5.0	6/1/2010	6/1/2010	
Magnesium	10F0084	0.24	0.40	**220**	1	NA	6/1/2010	6/1/2010	MHA
Manganese	10F0084	0.14	0.40	**24**	1	NA	6/1/2010	6/1/2010	
Nickel	10F0084	0.040	0.20	**4.5**	1	20	6/1/2010	6/1/2010	
Potassium	10F0084	7.4	10	**18**	1	NA	6/1/2010	6/1/2010	B
Selenium	10F0084	0.16	0.20	ND	1	1.0	6/1/2010	6/1/2010	
Silver	10F0084	0.12	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Thallium	10F0084	0.14	0.20	ND	1	7.0	6/1/2010	6/1/2010	
Vanadium	10F0084	0.060	0.20	**0.29**	1	24	6/1/2010	6/1/2010	
Zinc	10F0084	0.12	0.40	**0.30**	1	250	6/1/2010	6/1/2010	J

TestAmerica Irvine

Kathleen A. Robb For Theresa Tyrrell
PM

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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

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Attention: Kate Haney

Project ID: Sonoma Mine Sites
Report Number: ITE2408

Sampled: 04/24/10-05/11/10
Received: 05/25/10

STLC METALS

Analyte	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	STLC Limit	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITE2408-02 (04CMSB - Solid)					**Sampled: 05/02/10**				
Reporting Units: mg/l									
Aluminum	10F0084	0.80	1.0	**52**	1	NA	6/1/2010	6/1/2010	
Mercury	10F0103	0.0010	0.0020	ND	1	0.20	6/1/2010	6/1/2010	
Antimony	10F0084	0.14	0.20	ND	1	15	6/1/2010	6/1/2010	
Arsenic	10F0084	0.13	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Barium	10F0084	0.12	0.20	**12**	1	100	6/1/2010	6/1/2010	
Beryllium	10F0084	0.018	0.080	ND	1	0.75	6/1/2010	6/1/2010	
Cadmium	10F0084	0.040	0.10	ND	1	1.0	6/1/2010	6/1/2010	
Calcium	10F0084	1.0	2.0	**140**	1	NA	6/1/2010	6/1/2010	
Chromium	10F0084	0.040	0.10	**4.1**	1	5.0	6/1/2010	6/1/2010	
Cobalt	10F0084	0.040	0.20	**1.7**	1	80	6/1/2010	6/1/2010	
Copper	10F0084	0.060	0.20	**0.56**	1	25	6/1/2010	6/1/2010	
Iron	10F0084	0.30	0.80	**370**	1	NA	6/1/2010	6/1/2010	
Lead	10F0084	0.080	0.10	**0.11**	1	5.0	6/1/2010	6/1/2010	
Magnesium	10F0084	0.24	0.40	**1800**	1	NA	6/1/2010	6/1/2010	
Manganese	10F0084	0.14	0.40	**130**	1	NA	6/1/2010	6/1/2010	
Nickel	10F0084	0.040	0.20	**16**	1	20	6/1/2010	6/1/2010	
Potassium	10F0084	7.4	10	**28**	1	NA	6/1/2010	6/1/2010	B
Selenium	10F0084	0.16	0.20	ND	1	1.0	6/1/2010	6/1/2010	
Silver	10F0084	0.12	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Thallium	10F0084	0.14	0.20	ND	1	7.0	6/1/2010	6/1/2010	
Vanadium	10F0084	0.060	0.20	**0.55**	1	24	6/1/2010	6/1/2010	
Zinc	10F0084	0.12	0.40	**0.78**	1	250	6/1/2010	6/1/2010	

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

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Attention: Kate Haney

Project ID: Sonoma Mine Sites

Report Number: ITE2408

Sampled: 04/24/10-05/11/10
Received: 05/25/10

STLC METALS

Analyte	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	STLC Limit	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITE2408-03 (06CMSB - Solid)					**Sampled: 05/03/10**				
Reporting Units: mg/l									
Aluminum	10F0084	0.80	1.0	**46**	1	NA	6/1/2010	6/1/2010	
Mercury	10F0103	0.0010	0.0020	ND	1	0.20	6/1/2010	6/1/2010	
Antimony	10F0084	0.14	0.20	ND	1	15	6/1/2010	6/1/2010	
Arsenic	10F0084	0.13	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Barium	10F0084	0.12	0.20	**9.6**	1	100	6/1/2010	6/1/2010	
Beryllium	10F0084	0.018	0.080	ND	1	0.75	6/1/2010	6/1/2010	
Cadmium	10F0084	0.040	0.10	ND	1	1.0	6/1/2010	6/1/2010	
Calcium	10F0084	1.0	2.0	**210**	1	NA	6/1/2010	6/1/2010	
Chromium	10F0084	0.040	0.10	**0.41**	1	5.0	6/1/2010	6/1/2010	
Cobalt	10F0084	0.040	0.20	**0.44**	1	80	6/1/2010	6/1/2010	
Copper	10F0084	0.060	0.20	**0.30**	1	25	6/1/2010	6/1/2010	
Iron	10F0084	0.30	0.80	**65**	1	NA	6/1/2010	6/1/2010	
Lead	10F0084	0.080	0.10	**0.10**	1	5.0	6/1/2010	6/1/2010	
Magnesium	10F0084	0.24	0.40	**180**	1	NA	6/1/2010	6/1/2010	
Manganese	10F0084	0.14	0.40	**9.6**	1	NA	6/1/2010	6/1/2010	
Nickel	10F0084	0.040	0.20	**1.6**	1	20	6/1/2010	6/1/2010	
Potassium	10F0084	7.4	10	**29**	1	NA	6/1/2010	6/1/2010	B
Selenium	10F0084	0.16	0.20	ND	1	1.0	6/1/2010	6/1/2010	
Silver	10F0084	0.12	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Thallium	10F0084	0.14	0.20	ND	1	7.0	6/1/2010	6/1/2010	
Vanadium	10F0084	0.060	0.20	**0.23**	1	24	6/1/2010	6/1/2010	
Zinc	10F0084	0.12	0.40	**2.3**	1	250	6/1/2010	6/1/2010	

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TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Attention: Kate Haney

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Report Number: ITE2408

Sampled: 04/24/10-05/11/10
Received: 05/25/10

STLC METALS

Analyte	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	STLC Limit	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITE2408-04 (02SMSB - Solid)					**Sampled: 04/24/10**				
Reporting Units: mg/l									
Aluminum	10F0084	0.80	1.0	**13**	1	NA	6/1/2010	6/1/2010	
Mercury	10F0103	0.0010	0.0020	**0.0055**	1	0.20	6/1/2010	6/1/2010	
Antimony	10F0084	0.14	0.20	ND	1	15	6/1/2010	6/1/2010	
Arsenic	10F0084	0.13	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Barium	10F0084	0.12	0.20	**4.9**	1	100	6/1/2010	6/1/2010	
Beryllium	10F0084	0.018	0.080	ND	1	0.75	6/1/2010	6/1/2010	
Cadmium	10F0084	0.040	0.10	ND	1	1.0	6/1/2010	6/1/2010	
Calcium	10F0084	1.0	2.0	**200**	1	NA	6/1/2010	6/1/2010	
Chromium	10F0084	0.040	0.10	**0.42**	1	5.0	6/1/2010	6/1/2010	
Cobalt	10F0084	0.040	0.20	**1.1**	1	80	6/1/2010	6/1/2010	
Copper	10F0084	0.060	0.20	**0.44**	1	25	6/1/2010	6/1/2010	
Iron	10F0084	0.30	0.80	**65**	1	NA	6/1/2010	6/1/2010	
Lead	10F0084	0.080	0.10	**0.13**	1	5.0	6/1/2010	6/1/2010	
Magnesium	10F0084	0.24	0.40	**210**	1	NA	6/1/2010	6/1/2010	
Manganese	10F0084	0.14	0.40	**20**	1	NA	6/1/2010	6/1/2010	
Nickel	10F0084	0.040	0.20	**5.2**	1	20	6/1/2010	6/1/2010	
Potassium	10F0084	7.4	10	**22**	1	NA	6/1/2010	6/1/2010	B
Selenium	10F0084	0.16	0.20	ND	1	1.0	6/1/2010	6/1/2010	
Silver	10F0084	0.12	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Thallium	10F0084	0.14	0.20	ND	1	7.0	6/1/2010	6/1/2010	
Vanadium	10F0084	0.060	0.20	**0.17**	1	24	6/1/2010	6/1/2010	J
Zinc	10F0084	0.12	0.40	**0.16**	1	250	6/1/2010	6/1/2010	J

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TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Attention: Kate Haney

Project ID: Sonoma Mine Sites

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Sampled: 04/24/10-05/11/10
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STLC METALS

Analyte	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	STLC Limit	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITE2408-05 (05SMSB-B - Solid)					**Sampled: 04/26/10**				
Reporting Units: mg/l									
Aluminum	10F0084	0.80	1.0	**36**	1	NA	6/1/2010	6/1/2010	
Mercury	10F0103	0.0010	0.0020	ND	1	0.20	6/1/2010	6/1/2010	
Antimony	10F0084	0.14	0.20	ND	1	15	6/1/2010	6/1/2010	
Arsenic	10F0084	0.13	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Barium	10F0084	0.12	0.20	**13**	1	100	6/1/2010	6/1/2010	
Beryllium	10F0084	0.018	0.080	ND	1	0.75	6/1/2010	6/1/2010	
Cadmium	10F0084	0.040	0.10	ND	1	1.0	6/1/2010	6/1/2010	
Calcium	10F0084	1.0	2.0	**1000**	1	NA	6/1/2010	6/1/2010	
Chromium	10F0084	0.040	0.10	**0.93**	1	5.0	6/1/2010	6/1/2010	
Cobalt	10F0084	0.040	0.20	**0.51**	1	80	6/1/2010	6/1/2010	
Copper	10F0084	0.060	0.20	**0.21**	1	25	6/1/2010	6/1/2010	
Iron	10F0084	0.30	0.80	**53**	1	NA	6/1/2010	6/1/2010	
Lead	10F0084	0.080	0.10	**0.12**	1	5.0	6/1/2010	6/1/2010	
Magnesium	10F0084	0.24	0.40	**100**	1	NA	6/1/2010	6/1/2010	
Manganese	10F0084	0.14	0.40	**8.1**	1	NA	6/1/2010	6/1/2010	
Nickel	10F0084	0.040	0.20	**1.6**	1	20	6/1/2010	6/1/2010	
Potassium	10F0084	7.4	10	**24**	1	NA	6/1/2010	6/1/2010	B
Selenium	10F0084	0.16	0.20	ND	1	1.0	6/1/2010	6/1/2010	
Silver	10F0084	0.12	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Thallium	10F0084	0.14	0.20	ND	1	7.0	6/1/2010	6/1/2010	
Vanadium	10F0084	0.060	0.20	**0.20**	1	24	6/1/2010	6/1/2010	
Zinc	10F0084	0.12	0.40	**0.37**	1	250	6/1/2010	6/1/2010	J

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5755 8th Street East
Tacoma, WA 98424
Attention: Kate Haney

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STLC METALS

Analyte	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	STLC Limit	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITE2408-06 (08SMSB - Solid)					**Sampled: 04/25/10**				
Reporting Units: mg/l									
Aluminum	10F0084	0.80	1.0	**9.0**	1	NA	6/1/2010	6/1/2010	
Mercury	10F0103	0.0010	0.0020	ND	1	0.20	6/1/2010	6/1/2010	
Antimony	10F0084	0.14	0.20	ND	1	15	6/1/2010	6/1/2010	
Arsenic	10F0084	0.13	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Barium	10F0084	0.12	0.20	**8.9**	1	100	6/1/2010	6/1/2010	
Beryllium	10F0084	0.018	0.080	ND	1	0.75	6/1/2010	6/1/2010	
Cadmium	10F0084	0.040	0.10	ND	1	1.0	6/1/2010	6/1/2010	
Calcium	10F0084	1.0	2.0	**160**	1	NA	6/1/2010	6/1/2010	
Chromium	10F0084	0.040	0.10	**0.061**	1	5.0	6/1/2010	6/1/2010	J
Cobalt	10F0084	0.040	0.20	**1.1**	1	80	6/1/2010	6/1/2010	
Copper	10F0084	0.060	0.20	**0.45**	1	25	6/1/2010	6/1/2010	
Iron	10F0084	0.30	0.80	**72**	1	NA	6/1/2010	6/1/2010	
Lead	10F0084	0.080	0.10	**0.16**	1	5.0	6/1/2010	6/1/2010	
Magnesium	10F0084	0.24	0.40	**250**	1	NA	6/1/2010	6/1/2010	
Manganese	10F0084	0.14	0.40	**40**	1	NA	6/1/2010	6/1/2010	
Nickel	10F0084	0.040	0.20	**7.6**	1	20	6/1/2010	6/1/2010	
Potassium	10F0084	7.4	10	**19**	1	NA	6/1/2010	6/1/2010	B
Selenium	10F0084	0.16	0.20	ND	1	1.0	6/1/2010	6/1/2010	
Silver	10F0084	0.12	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Thallium	10F0084	0.14	0.20	ND	1	7.0	6/1/2010	6/1/2010	
Vanadium	10F0084	0.060	0.20	**0.14**	1	24	6/1/2010	6/1/2010	J
Zinc	10F0084	0.12	0.40	**0.89**	1	250	6/1/2010	6/1/2010	

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TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Attention: Kate Haney

Project ID: Sonoma Mine Sites

Report Number: ITE2408

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STLC METALS

Analyte	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	STLC Limit	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITE2408-07 (02HMSB - Solid)					**Sampled: 05/08/10**				
Reporting Units: mg/l									
Aluminum	10F0084	0.80	1.0	**25**	1	NA	6/1/2010	6/1/2010	
Mercury	10F0103	0.0010	0.0020	**0.0016**	1	0.20	6/1/2010	6/1/2010	J
Antimony	10F0084	0.14	0.20	ND	1	15	6/1/2010	6/1/2010	
Arsenic	10F0084	0.13	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Barium	10F0084	0.12	0.20	**2.7**	1	100	6/1/2010	6/1/2010	
Beryllium	10F0084	0.018	0.080	ND	1	0.75	6/1/2010	6/1/2010	
Cadmium	10F0084	0.040	0.10	ND	1	1.0	6/1/2010	6/1/2010	
Calcium	10F0084	1.0	2.0	**130**	1	NA	6/1/2010	6/1/2010	
Chromium	10F0084	0.040	0.10	**1.7**	1	5.0	6/1/2010	6/1/2010	
Cobalt	10F0084	0.040	0.20	**2.3**	1	80	6/1/2010	6/1/2010	
Copper	10F0084	0.060	0.20	**0.14**	1	25	6/1/2010	6/1/2010	J
Iron	10F0084	0.30	0.80	**170**	1	NA	6/1/2010	6/1/2010	
Lead	10F0084	0.080	0.10	ND	1	5.0	6/1/2010	6/1/2010	
Magnesium	10F0084	0.24	0.40	**450**	1	NA	6/1/2010	6/1/2010	
Manganese	10F0084	0.14	0.40	**13**	1	NA	6/1/2010	6/1/2010	
Nickel	10F0084	0.040	0.20	**29**	1	20	6/1/2010	6/1/2010	
Potassium	10F0084	7.4	10	**20**	1	NA	6/1/2010	6/1/2010	B
Selenium	10F0084	0.16	0.20	ND	1	1.0	6/1/2010	6/1/2010	
Silver	10F0084	0.12	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Thallium	10F0084	0.14	0.20	ND	1	7.0	6/1/2010	6/1/2010	
Vanadium	10F0084	0.060	0.20	**0.084**	1	24	6/1/2010	6/1/2010	J
Zinc	10F0084	0.12	0.40	**0.56**	1	250	6/1/2010	6/1/2010	

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TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Attention: Kate Haney

Project ID: Sonoma Mine Sites

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STLC METALS

Analyte	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	STLC Limit	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITE2408-08 (05HMSB - Solid)					**Sampled: 05/11/10**				
Reporting Units: mg/l									
Aluminum	10F0084	0.80	1.0	**27**	1	NA	6/1/2010	6/1/2010	
Mercury	10F0103	0.0010	0.0020	ND	1	0.20	6/1/2010	6/1/2010	
Antimony	10F0084	0.14	0.20	ND	1	15	6/1/2010	6/1/2010	
Arsenic	10F0084	0.13	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Barium	10F0084	0.12	0.20	**4.6**	1	100	6/1/2010	6/1/2010	
Beryllium	10F0084	0.018	0.080	ND	1	0.75	6/1/2010	6/1/2010	
Cadmium	10F0084	0.040	0.10	ND	1	1.0	6/1/2010	6/1/2010	
Calcium	10F0084	1.0	2.0	**5.8**	1	NA	6/1/2010	6/1/2010	
Chromium	10F0084	0.040	0.10	**0.70**	1	5.0	6/1/2010	6/1/2010	
Cobalt	10F0084	0.040	0.20	**0.61**	1	80	6/1/2010	6/1/2010	
Copper	10F0084	0.060	0.20	**0.088**	1	25	6/1/2010	6/1/2010	J
Iron	10F0084	0.30	0.80	**25**	1	NA	6/1/2010	6/1/2010	
Lead	10F0084	0.080	0.10	ND	1	5.0	6/1/2010	6/1/2010	
Magnesium	10F0084	0.24	0.40	**280**	1	NA	6/1/2010	6/1/2010	
Manganese	10F0084	0.14	0.40	**2.5**	1	NA	6/1/2010	6/1/2010	
Nickel	10F0084	0.040	0.20	**7.6**	1	20	6/1/2010	6/1/2010	
Potassium	10F0084	7.4	10	**21**	1	NA	6/1/2010	6/1/2010	B
Selenium	10F0084	0.16	0.20	ND	1	1.0	6/1/2010	6/1/2010	
Silver	10F0084	0.12	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Thallium	10F0084	0.14	0.20	ND	1	7.0	6/1/2010	6/1/2010	
Vanadium	10F0084	0.060	0.20	**0.48**	1	24	6/1/2010	6/1/2010	
Zinc	10F0084	0.12	0.40	**0.26**	1	250	6/1/2010	6/1/2010	J

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TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Attention: Kate Haney

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STLC METALS

Analyte	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	STLC Limit	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITE2408-09 (08HMSB - Solid)					**Sampled: 05/07/10**				
Reporting Units: mg/l									
Aluminum	10F0084	0.80	1.0	**34**	1	NA	6/1/2010	6/1/2010	
Mercury	10F0103	0.0010	0.0020	ND	1	0.20	6/1/2010	6/1/2010	
Antimony	10F0084	0.14	0.20	ND	1	15	6/1/2010	6/1/2010	
Arsenic	10F0084	0.13	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Barium	10F0084	0.12	0.20	ND	1	100	6/1/2010	6/1/2010	
Beryllium	10F0084	0.018	0.080	ND	1	0.75	6/1/2010	6/1/2010	
Cadmium	10F0084	0.040	0.10	ND	1	1.0	6/1/2010	6/1/2010	
Calcium	10F0084	1.0	2.0	**250**	1	NA	6/1/2010	6/1/2010	
Chromium	10F0084	0.040	0.10	**19**	1	5.0	6/1/2010	6/1/2010	
Cobalt	10F0084	0.040	0.20	**2.6**	1	80	6/1/2010	6/1/2010	
Copper	10F0084	0.060	0.20	ND	1	25	6/1/2010	6/1/2010	
Iron	10F0084	0.30	0.80	**1200**	1	NA	6/1/2010	6/1/2010	
Lead	10F0084	0.080	0.10	ND	1	5.0	6/1/2010	6/1/2010	
Magnesium	10F0084	0.24	0.40	**2800**	1	NA	6/1/2010	6/1/2010	
Manganese	10F0084	0.14	0.40	**37**	1	NA	6/1/2010	6/1/2010	
Nickel	10F0084	0.040	0.20	**73**	1	20	6/1/2010	6/1/2010	
Potassium	10F0084	7.4	10	**21**	1	NA	6/1/2010	6/1/2010	B
Selenium	10F0084	0.16	0.20	ND	1	1.0	6/1/2010	6/1/2010	
Silver	10F0084	0.12	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Thallium	10F0084	0.14	0.20	ND	1	7.0	6/1/2010	6/1/2010	
Vanadium	10F0084	0.060	0.20	**0.41**	1	24	6/1/2010	6/1/2010	
Zinc	10F0084	0.12	0.40	**0.84**	1	250	6/1/2010	6/1/2010	

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

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Attention: Kate Haney

Project ID: Sonoma Mine Sites

Report Number: ITE2408

Sampled: 04/24/10-05/11/10
Received: 05/25/10

STLC METALS

Analyte	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	STLC Limit	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: ITE2408-10 (09SMMW - Solid)					**Sampled: 04/25/10**				
Reporting Units: mg/l									
Aluminum	10F0084	0.80	1.0	**29**	1	NA	6/1/2010	6/1/2010	
Mercury	10F0103	0.0010	0.0020	ND	1	0.20	6/1/2010	6/1/2010	
Antimony	10F0084	0.14	0.20	ND	1	15	6/1/2010	6/1/2010	
Arsenic	10F0084	0.13	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Barium	10F0084	0.12	0.20	**9.6**	1	100	6/1/2010	6/1/2010	
Beryllium	10F0084	0.018	0.080	ND	1	0.75	6/1/2010	6/1/2010	
Cadmium	10F0084	0.040	0.10	ND	1	1.0	6/1/2010	6/1/2010	
Calcium	10F0084	1.0	2.0	**120**	1	NA	6/1/2010	6/1/2010	
Chromium	10F0084	0.040	0.10	**0.76**	1	5.0	6/1/2010	6/1/2010	
Cobalt	10F0084	0.040	0.20	**0.57**	1	80	6/1/2010	6/1/2010	
Copper	10F0084	0.060	0.20	**0.42**	1	25	6/1/2010	6/1/2010	
Iron	10F0084	0.30	0.80	**110**	1	NA	6/1/2010	6/1/2010	
Lead	10F0084	0.080	0.10	**0.14**	1	5.0	6/1/2010	6/1/2010	
Magnesium	10F0084	0.24	0.40	**110**	1	NA	6/1/2010	6/1/2010	
Manganese	10F0084	0.14	0.40	**6.2**	1	NA	6/1/2010	6/1/2010	
Nickel	10F0084	0.040	0.20	**2.3**	1	20	6/1/2010	6/1/2010	
Potassium	10F0084	7.4	10	**21**	1	NA	6/1/2010	6/1/2010	B
Selenium	10F0084	0.16	0.20	ND	1	1.0	6/1/2010	6/1/2010	
Silver	10F0084	0.12	0.20	ND	1	5.0	6/1/2010	6/1/2010	
Thallium	10F0084	0.14	0.20	ND	1	7.0	6/1/2010	6/1/2010	
Vanadium	10F0084	0.060	0.20	**0.28**	1	24	6/1/2010	6/1/2010	
Zinc	10F0084	0.12	0.40	**0.19**	1	250	6/1/2010	6/1/2010	J

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TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Attention: Kate Haney

Project ID: Sonoma Mine Sites

Report Number: ITE2408

Sampled: 04/24/10-05/11/10
Received: 05/25/10

WASTE EXTRACTION TEST (STLC) - Metals/Inorganics

Analyte	Method	Batch	Extraction Start Date	Extraction End Date	Data Qualifiers
Sample ID: ITE2408-01 (02CMSB - Solid)			**Sampled: 04/26/10**		
Extraction	STLC-Met	10E3670	5/27/2010	5/29/2010	
Sample ID: ITE2408-02 (04CMSB - Solid)			**Sampled: 05/02/10**		
Extraction	STLC-Met	10E3670	5/27/2010	5/29/2010	
Sample ID: ITE2408-03 (06CMSB - Solid)			**Sampled: 05/03/10**		
Extraction	STLC-Met	10E3670	5/27/2010	5/29/2010	
Sample ID: ITE2408-04 (02SMSB - Solid)			**Sampled: 04/24/10**		
Extraction	STLC-Met	10E3670	5/27/2010	5/29/2010	
Sample ID: ITE2408-05 (05SMSB-B - Solid)			**Sampled: 04/26/10**		
Extraction	STLC-Met	10E3670	5/27/2010	5/29/2010	
Sample ID: ITE2408-06 (08SMSB - Solid)			**Sampled: 04/25/10**		
Extraction	STLC-Met	10E3670	5/27/2010	5/29/2010	
Sample ID: ITE2408-07 (02HMSB - Solid)			**Sampled: 05/08/10**		
Extraction	STLC-Met	10E3670	5/27/2010	5/29/2010	
Sample ID: ITE2408-08 (05HMSB - Solid)			**Sampled: 05/11/10**		
Extraction	STLC-Met	10E3670	5/27/2010	5/29/2010	

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TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Attention: Kate Haney

Project ID: Sonoma Mine Sites

Report Number: ITE2408

Sampled: 04/24/10-05/11/10
Received: 05/25/10

WASTE EXTRACTION TEST (STLC) - Metals/Inorganics

Analyte	Method	Batch	Extraction Start Date	Extraction End Date	Data Qualifiers
Sample ID: ITE2408-09 (08HMSB - Solid)			**Sampled: 05/07/10**		
Extraction	STLC-Met	10E3670	5/27/2010	5/29/2010	
Sample ID: ITE2408-10 (09SMMW - Solid)			**Sampled: 04/25/10**		
Extraction	STLC-Met	10E3670	5/27/2010	5/29/2010	

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

QC Summary

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 www.testamericainc.com

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

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Attention: Kate Haney

Project ID: Sonoma Mine Sites

Report Number: ITE2408

Sampled: 04/24/10-05/11/10
Received: 05/25/10

METHOD BLANK/QC DATA

STLC METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10F0084 Extracted: 06/01/10											
Blank Analyzed: 06/01/2010 (10F0084-BLK1)											
Aluminum	ND	1.0	0.80	mg/l							
Antimony	ND	0.20	0.14	mg/l							
Arsenic	ND	0.20	0.13	mg/l							
Barium	ND	0.20	0.12	mg/l							
Beryllium	ND	0.080	0.018	mg/l							
Cadmium	ND	0.10	0.040	mg/l							
Calcium	ND	2.0	1.0	mg/l							
Chromium	ND	0.10	0.040	mg/l							
Cobalt	ND	0.20	0.040	mg/l							
Copper	ND	0.20	0.060	mg/l							
Iron	ND	0.80	0.30	mg/l							
Lead	ND	0.10	0.080	mg/l							
Magnesium	ND	0.40	0.24	mg/l							
Manganese	ND	0.40	0.14	mg/l							
Nickel	ND	0.20	0.040	mg/l							
Potassium	16.6	10	7.4	mg/l							*B*
Selenium	ND	0.20	0.16	mg/l							
Silver	ND	0.20	0.12	mg/l							
Thallium	ND	0.20	0.14	mg/l							
Vanadium	ND	0.20	0.060	mg/l							
Zinc	ND	0.40	0.12	mg/l							
LCS Analyzed: 06/01/2010 (10F0084-BS1)											
Aluminum	19.9	1.0	0.80	mg/l	20.0		100	80-120			
Antimony	20.7	0.20	0.14	mg/l	20.0		104	80-120			
Arsenic	21.4	0.20	0.13	mg/l	20.0		107	80-120			
Barium	19.8	0.20	0.12	mg/l	20.0		99	80-120			
Beryllium	20.1	0.080	0.018	mg/l	20.0		101	80-120			
Cadmium	20.1	0.10	0.040	mg/l	20.0		100	80-120			
Calcium	20.8	2.0	1.0	mg/l	20.0		104	80-120			
Chromium	20.5	0.10	0.040	mg/l	20.0		102	80-120			
Cobalt	19.9	0.20	0.040	mg/l	20.0		99	80-120			
Copper	20.7	0.20	0.060	mg/l	20.0		104	80-120			
Iron	20.0	0.80	0.30	mg/l	20.0		100	80-120			
Lead	20.0	0.10	0.080	mg/l	20.0		100	80-120			
Magnesium	19.8	0.40	0.24	mg/l	20.0		99	80-120			

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TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Attention: Kate Haney

Project ID: Sonoma Mine Sites

Report Number: ITE2408

Sampled: 04/24/10-05/11/10
Received: 05/25/10

METHOD BLANK/QC DATA

STLC METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10F0084 Extracted: 06/01/10											
LCS Analyzed: 06/01/2010 (10F0084-BS1)											
Manganese	19.7	0.40	0.14	mg/l	20.0		99	80-120			
Nickel	19.8	0.20	0.040	mg/l	20.0		99	80-120			
Potassium	229	10	7.4	mg/l	200		115	80-120			
Selenium	20.7	0.20	0.16	mg/l	20.0		104	80-120			
Silver	10.6	0.20	0.12	mg/l	10.0		106	80-120			
Thallium	18.8	0.20	0.14	mg/l	20.0		94	80-120			
Vanadium	21.0	0.20	0.060	mg/l	20.0		105	80-120			
Zinc	19.8	0.40	0.12	mg/l	20.0		99	80-120			
Matrix Spike Analyzed: 06/01/2010 (10F0084-MS1)						**Source: ITE2408-01**					
Aluminum	37.0	1.0	0.80	mg/l	20.0	17.1	99	75-125			
Antimony	20.2	0.20	0.14	mg/l	20.0	ND	101	75-125			
Arsenic	20.8	0.20	0.13	mg/l	20.0	ND	104	75-125			
Barium	26.7	0.20	0.12	mg/l	20.0	6.97	99	75-125			
Beryllium	20.1	0.080	0.018	mg/l	20.0	ND	101	75-125			
Cadmium	19.7	0.10	0.040	mg/l	20.0	ND	99	75-125			
Calcium	115	2.0	1.0	mg/l	20.0	93.7	106	75-125			*MHA*
Chromium	21.0	0.10	0.040	mg/l	20.0	0.938	100	75-125			
Cobalt	21.0	0.20	0.040	mg/l	20.0	1.45	98	75-125			
Copper	20.5	0.20	0.060	mg/l	20.0	0.223	102	75-125			
Iron	114	0.80	0.30	mg/l	20.0	92.8	108	75-125			*MHA*
Lead	19.5	0.10	0.080	mg/l	20.0	ND	97	75-125			
Magnesium	238	0.40	0.24	mg/l	20.0	220	89	75-125			*MHA*
Manganese	43.9	0.40	0.14	mg/l	20.0	24.4	98	75-125			
Nickel	23.9	0.20	0.040	mg/l	20.0	4.52	97	75-125			
Potassium	236	10	7.4	mg/l	200	17.7	109	75-125			
Selenium	19.9	0.20	0.16	mg/l	20.0	ND	100	75-125			
Silver	10.5	0.20	0.12	mg/l	10.0	ND	105	75-125			
Thallium	18.4	0.20	0.14	mg/l	20.0	ND	92	75-125			
Vanadium	20.8	0.20	0.060	mg/l	20.0	0.286	103	75-125			
Zinc	19.8	0.40	0.12	mg/l	20.0	0.304	97	75-125			

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TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Attention: Kate Haney

Project ID: Sonoma Mine Sites

Report Number: ITE2408

Sampled: 04/24/10-05/11/10
Received: 05/25/10

METHOD BLANK/QC DATA

STLC METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10F0084 Extracted: 06/01/10											
Matrix Spike Dup Analyzed: 06/01/2010 (10F0084-MSD1)						**Source: ITE2408-01**					
Aluminum	37.0	1.0	0.80	mg/l	20.0	17.1	100	75-125	0.1	20	
Antimony	20.8	0.20	0.14	mg/l	20.0	ND	104	75-125	3	20	
Arsenic	21.2	0.20	0.13	mg/l	20.0	ND	106	75-125	2	20	
Barium	26.7	0.20	0.12	mg/l	20.0	6.97	99	75-125	0.1	20	
Beryllium	20.0	0.080	0.018	mg/l	20.0	ND	100	75-125	0.5	20	
Cadmium	19.6	0.10	0.040	mg/l	20.0	ND	98	75-125	0.5	20	
Calcium	116	2.0	1.0	mg/l	20.0	93.7	110	75-125	0.6	20	*MHA*
Chromium	21.0	0.10	0.040	mg/l	20.0	0.938	100	75-125	0.3	20	
Cobalt	21.0	0.20	0.040	mg/l	20.0	1.45	98	75-125	0.2	20	
Copper	20.7	0.20	0.060	mg/l	20.0	0.223	102	75-125	0.6	20	
Iron	115	0.80	0.30	mg/l	20.0	92.8	112	75-125	0.7	20	*MHA*
Lead	19.9	0.10	0.080	mg/l	20.0	ND	100	75-125	2	20	
Magnesium	238	0.40	0.24	mg/l	20.0	220	89	75-125	0.03	20	*MHA*
Manganese	44.2	0.40	0.14	mg/l	20.0	24.4	99	75-125	0.7	20	
Nickel	24.0	0.20	0.040	mg/l	20.0	4.52	97	75-125	0.3	20	
Potassium	228	10	7.4	mg/l	200	17.7	105	75-125	3	20	
Selenium	20.4	0.20	0.16	mg/l	20.0	ND	102	75-125	2	20	
Silver	10.5	0.20	0.12	mg/l	10.0	ND	105	75-125	0.4	20	
Thallium	18.7	0.20	0.14	mg/l	20.0	ND	94	75-125	2	20	
Vanadium	21.0	0.20	0.060	mg/l	20.0	0.286	104	75-125	0.8	20	
Zinc	19.7	0.40	0.12	mg/l	20.0	0.304	97	75-125	0.1	20	
Batch: 10F0103 Extracted: 06/01/10											
Blank Analyzed: 06/01/2010 (10F0103-BLK1)											
Mercury	ND	0.0020	0.0010	mg/l							

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5755 8th Street East
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Project ID: Sonoma Mine Sites

Report Number: ITE2408

Sampled: 04/24/10-05/11/10
Received: 05/25/10

METHOD BLANK/QC DATA

STLC METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 10F0103 Extracted: 06/01/10											
LCS Analyzed: 06/01/2010 (10F0103-BS1)											
Mercury	0.0701	0.0020	0.0010	mg/l	0.0800		88	80-120			
Matrix Spike Analyzed: 06/01/2010 (10F0103-MS1)						**Source: ITE2408-01**					
Mercury	0.0501	0.0020	0.0010	mg/l	0.0800	0.0172	41	70-130			*M2*
Matrix Spike Dup Analyzed: 06/01/2010 (10F0103-MSD1)						**Source: ITE2408-01**					
Mercury	0.0486	0.0020	0.0010	mg/l	0.0800	0.0172	39	70-130	3	20	*M2*

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Attention: Kate Haney

Project ID: Sonoma Mine Sites

Report Number: ITE2408

Sampled: 04/24/10-05/11/10
Received: 05/25/10

DATA QUALIFIERS AND DEFINITIONS

B	Analyte was detected in the associated 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).
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
RPD	Relative Percent Difference

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Attention: Kate Haney

Project ID: Sonoma Mine Sites

Report Number: ITE2408

Sampled: 04/24/10-05/11/10
Received: 05/25/10

Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
7470A-STLC	Solid	X	X
EPA 6010B	Solid	X	X
STLC-Met	Solid	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

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THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA 6010B METALS
Analytical Results Summary

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 **www.testamericainc.com**

Form 1

INORGANIC ANALYSIS DATA SHEET

STLC-Met

02CMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-01 File ID:

Sampled: 04/26/10 12:26 Prepared: 05/27/10 13:00 Analyzed: 05/29/10 12:00

Solids: 0.00 Preparation: STLC - Met Initial/Final: 50 g / 500 ml

Batch: 10E3670 Sequence: Calibration: Instrument: Inst

CAS NO.	Analyte	Concentration (N/A)	Dilution Factor	Q	Method
Extract	Extraction	DET	1		STLC-Met

Form 1

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

02CMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-01 File ID: 100601-2-046

Sampled: 04/26/10 12:26 Prepared: 06/01/10 10:20 Analyzed: 06/01/10 17:44

Solids: 0.00 Preparation: Filtration-Metals Initial/Final: 0.5 ml / 10 ml

Batch: 10F0084 Sequence: T000424 Calibration: I10F028 Instrument: ICP5

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7429-90-5	Aluminum	17	1		EPA 6010B
7440-36-0	Antimony	0.20	1	U	EPA 6010B
7440-38-2	Arsenic	0.20	1	U	EPA 6010B
7440-39-3	Barium	7.0	1		EPA 6010B
7440-41-7	Beryllium	0.080	1	U	EPA 6010B
7440-43-9	Cadmium	0.10	1	U	EPA 6010B
7440-70-2	Calcium	94	1		EPA 6010B
7440-47-3	Chromium	0.94	1		EPA 6010B
7440-48-4	Cobalt	1.5	1		EPA 6010B
7440-50-8	Copper	0.22	1		EPA 6010B
7439-89-6	Iron	93	1		EPA 6010B
7439-92-1	Lead	0.10	1	U	EPA 6010B
7439-95-4	Magnesium	220	1		EPA 6010B
7439-96-5	Manganese	24	1		EPA 6010B
7440-02-0	Nickel	4.5	1		EPA 6010B
7440-09-7	Potassium	18	1	B	EPA 6010B
7782-49-2	Selenium	0.20	1	U	EPA 6010B
7440-22-4	Silver	0.20	1	U	EPA 6010B
7440-28-0	Thallium	0.20	1	U	EPA 6010B
7440-62-2	Vanadium	0.29	1		EPA 6010B
7440-66-6	Zinc	0.40	1	U	EPA 6010B

Form 1

INORGANIC ANALYSIS DATA SHEET

STLC-Met

04CMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-02 File ID:

Sampled: 05/02/10 13:25 Prepared: 05/27/10 13:00 Analyzed: 05/29/10 12:00

Solids: 0.00 Preparation: STLC - Met Initial/Final: 50 g / 500 ml

Batch: 10E3670 Sequence: Calibration: Instrument: Inst

CAS NO.	Analyte	Concentration (N/A)	Dilution Factor	Q	Method
Extract	Extraction	DET	1		STLC-Met

Form 1

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

04CMSB

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Project: ERM-West Sacramento
Matrix: Solid
Laboratory ID: ITE2408-02
File ID: 100601-2-054
Sampled: 05/02/10 13:25
Prepared: 06/01/10 10:20
Analyzed: 06/01/10 18:11
Solids: 0.00
Preparation: Filtration-Metals
Initial/Final: 0.5 ml / 10 ml
Batch: 10F0084
Sequence: T000424
Calibration: I10F028
Instrument: ICP5

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7429-90-5	Aluminum	52	1		EPA 6010B
7440-36-0	Antimony	0.20	1	U	EPA 6010B
7440-38-2	Arsenic	0.20	1	U	EPA 6010B
7440-39-3	Barium	12	1		EPA 6010B
7440-41-7	Beryllium	0.080	1	U	EPA 6010B
7440-43-9	Cadmium	0.10	1	U	EPA 6010B
7440-70-2	Calcium	140	1		EPA 6010B
7440-47-3	Chromium	4.1	1		EPA 6010B
7440-48-4	Cobalt	1.7	1		EPA 6010B
7440-50-8	Copper	0.56	1		EPA 6010B
7439-89-6	Iron	370	1		EPA 6010B
7439-92-1	Lead	0.11	1		EPA 6010B
7439-95-4	Magnesium	1800	1		EPA 6010B
7439-96-5	Manganese	130	1		EPA 6010B
7440-02-0	Nickel	16	1		EPA 6010B
7440-09-7	Potassium	28	1	B	EPA 6010B
7782-49-2	Selenium	0.20	1	U	EPA 6010B
7440-22-4	Silver	0.20	1	U	EPA 6010B
7440-28-0	Thallium	0.20	1	U	EPA 6010B
7440-62-2	Vanadium	0.55	1		EPA 6010B
7440-66-6	Zinc	0.78	1		EPA 6010B

Form 1

INORGANIC ANALYSIS DATA SHEET

STLC-Met

06CMSB

Laboratory:	TestAmerica Irvine			SDG:	
Client:	TestAmerica Seattle			Project:	ERM-West Sacramento
Matrix:	Solid	Laboratory ID:	ITE2408-03	File ID:	
Sampled:	05/03/10 13:00	Prepared:	05/27/10 13:00	Analyzed:	05/29/10 12:00
Solids:	0.00	Preparation:	STLC - Met	Initial/Final:	50 g / 500 ml
Batch:	10E3670	Sequence:		Calibration:	Instrument: Inst

CAS NO.	Analyte	Concentration (N/A)	Dilution Factor	Q	Method
Extract	Extraction	DET	1		STLC-Met

Form 1

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

06CMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-03 File ID: 100601-2-055

Sampled: 05/03/10 13:00 Prepared: 06/01/10 10:20 Analyzed: 06/01/10 18:14

Solids: 0.00 Preparation: Filtration-Metals Initial/Final: 0.5 ml / 10 ml

Batch: 10F0084 Sequence: T000424 Calibration: I10F028 Instrument: ICP5

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7429-90-5	Aluminum	46	1		EPA 6010B
7440-36-0	Antimony	0.20	1	U	EPA 6010B
7440-38-2	Arsenic	0.20	1	U	EPA 6010B
7440-39-3	Barium	9.6	1		EPA 6010B
7440-41-7	Beryllium	0.080	1	U	EPA 6010B
7440-43-9	Cadmium	0.10	1	U	EPA 6010B
7440-70-2	Calcium	210	1		EPA 6010B
7440-47-3	Chromium	0.41	1		EPA 6010B
7440-48-4	Cobalt	0.44	1		EPA 6010B
7440-50-8	Copper	0.30	1		EPA 6010B
7439-89-6	Iron	65	1		EPA 6010B
7439-92-1	Lead	0.10	1		EPA 6010B
7439-95-4	Magnesium	180	1		EPA 6010B
7439-96-5	Manganese	9.6	1		EPA 6010B
7440-02-0	Nickel	1.6	1		EPA 6010B
7440-09-7	Potassium	29	1	B	EPA 6010B
7782-49-2	Selenium	0.20	1	U	EPA 6010B
7440-22-4	Silver	0.20	1	U	EPA 6010B
7440-28-0	Thallium	0.20	1	U	EPA 6010B
7440-62-2	Vanadium	0.23	1		EPA 6010B
7440-66-6	Zinc	2.3	1		EPA 6010B

Form 1

INORGANIC ANALYSIS DATA SHEET

STLC-Met

02SMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-04 File ID:

Sampled: 04/24/10 11:30 Prepared: 05/27/10 13:00 Analyzed: 05/29/10 12:00

Solids: 0.00 Preparation: STLC - Met Initial/Final: 50 g / 500 ml

Batch: 10E3670 Sequence: Calibration: Instrument: Inst

CAS NO.	Analyte	Concentration (N/A)	Dilution Factor	Q	Method
Extract	Extraction	DET	1		STLC-Met

Form 1

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

02SMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-04 File ID: 100601-2-056

Sampled: 04/24/10 11:30 Prepared: 06/01/10 10:20 Analyzed: 06/01/10 18:17

Solids: 0.00 Preparation: Filtration-Metals Initial/Final: 0.5 ml / 10 ml

Batch: 10F0084 Sequence: T000424 Calibration: I10F028 Instrument: ICP5

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7429-90-5	Aluminum	13	1		EPA 6010B
7440-36-0	Antimony	0.20	1	U	EPA 6010B
7440-38-2	Arsenic	0.20	1	U	EPA 6010B
7440-39-3	Barium	4.9	1		EPA 6010B
7440-41-7	Beryllium	0.080	1	U	EPA 6010B
7440-43-9	Cadmium	0.10	1	U	EPA 6010B
7440-70-2	Calcium	200	1		EPA 6010B
7440-47-3	Chromium	0.42	1		EPA 6010B
7440-48-4	Cobalt	1.1	1		EPA 6010B
7440-50-8	Copper	0.44	1		EPA 6010B
7439-89-6	Iron	65	1		EPA 6010B
7439-92-1	Lead	0.13	1		EPA 6010B
7439-95-4	Magnesium	210	1		EPA 6010B
7439-96-5	Manganese	20	1		EPA 6010B
7440-02-0	Nickel	5.2	1		EPA 6010B
7440-09-7	Potassium	22	1	B	EPA 6010B
7782-49-2	Selenium	0.20	1	U	EPA 6010B
7440-22-4	Silver	0.20	1	U	EPA 6010B
7440-28-0	Thallium	0.20	1	U	EPA 6010B
7440-62-2	Vanadium	0.20	1	U	EPA 6010B
7440-66-6	Zinc	0.40	1	U	EPA 6010B

Form 1

INORGANIC ANALYSIS DATA SHEET

STLC-Met

05SMSB-B

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-05 File ID:

Sampled: 04/26/10 09:10 Prepared: 05/27/10 13:00 Analyzed: 05/29/10 12:00

Solids: 0.00 Preparation: STLC - Met Initial/Final: 50 g / 500 ml

Batch: 10E3670 Sequence: Calibration: Instrument: Inst

CAS NO.	Analyte	Concentration (N/A)	Dilution Factor	Q	Method
Extract	Extraction	DET	1		STLC-Met

Form 1

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

05SMSB-B

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-05 File ID: 100601-2-057

Sampled: 04/26/10 09:10 Prepared: 06/01/10 10:20 Analyzed: 06/01/10 18:20

Solids: 0.00 Preparation: Filtration-Metals Initial/Final: 0.5 ml / 10 ml

Batch: 10F0084 Sequence: T000424 Calibration: I10F028 Instrument: ICP5

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7429-90-5	Aluminum	36	1		EPA 6010B
7440-36-0	Antimony	0.20	1	U	EPA 6010B
7440-38-2	Arsenic	0.20	1	U	EPA 6010B
7440-39-3	Barium	13	1		EPA 6010B
7440-41-7	Beryllium	0.080	1	U	EPA 6010B
7440-43-9	Cadmium	0.10	1	U	EPA 6010B
7440-70-2	Calcium	1000	1		EPA 6010B
7440-47-3	Chromium	0.93	1		EPA 6010B
7440-48-4	Cobalt	0.51	1		EPA 6010B
7440-50-8	Copper	0.21	1		EPA 6010B
7439-89-6	Iron	53	1		EPA 6010B
7439-92-1	Lead	0.12	1		EPA 6010B
7439-95-4	Magnesium	100	1		EPA 6010B
7439-96-5	Manganese	8.1	1		EPA 6010B
7440-02-0	Nickel	1.6	1		EPA 6010B
7440-09-7	Potassium	24	1	B	EPA 6010B
7782-49-2	Selenium	0.20	1	U	EPA 6010B
7440-22-4	Silver	0.20	1	U	EPA 6010B
7440-28-0	Thallium	0.20	1	U	EPA 6010B
7440-62-2	Vanadium	0.20	1		EPA 6010B
7440-66-6	Zinc	0.40	1	U	EPA 6010B

Form 1

INORGANIC ANALYSIS DATA SHEET

STLC-Met

08SMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-06 File ID:

Sampled: 04/25/10 15:17 Prepared: 05/27/10 13:00 Analyzed: 05/29/10 12:00

Solids: 0.00 Preparation: STLC - Met Initial/Final: 50 g / 500 ml

Batch: 10E3670 Sequence: Calibration: Instrument: Inst

CAS NO.	Analyte	Concentration (N/A)	Dilution Factor	Q	Method
Extract	Extraction	DET	1		STLC-Met

Form 1

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

08SMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-06 File ID: 100601-2-058

Sampled: 04/25/10 15:17 Prepared: 06/01/10 10:20 Analyzed: 06/01/10 18:23

Solids: 0.00 Preparation: Filtration-Metals Initial/Final: 0.5 ml / 10 ml

Batch: 10F0084 Sequence: T000424 Calibration: I10F028 Instrument: ICP5

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7429-90-5	Aluminum	9.0	1		EPA 6010B
7440-36-0	Antimony	0.20	1	U	EPA 6010B
7440-38-2	Arsenic	0.20	1	U	EPA 6010B
7440-39-3	Barium	8.9	1		EPA 6010B
7440-41-7	Beryllium	0.080	1	U	EPA 6010B
7440-43-9	Cadmium	0.10	1	U	EPA 6010B
7440-70-2	Calcium	160	1		EPA 6010B
7440-47-3	Chromium	0.10	1	U	EPA 6010B
7440-48-4	Cobalt	1.1	1		EPA 6010B
7440-50-8	Copper	0.45	1		EPA 6010B
7439-89-6	Iron	72	1		EPA 6010B
7439-92-1	Lead	0.16	1		EPA 6010B
7439-95-4	Magnesium	250	1		EPA 6010B
7439-96-5	Manganese	40	1		EPA 6010B
7440-02-0	Nickel	7.6	1		EPA 6010B
7440-09-7	Potassium	19	1	B	EPA 6010B
7782-49-2	Selenium	0.20	1	U	EPA 6010B
7440-22-4	Silver	0.20	1	U	EPA 6010B
7440-28-0	Thallium	0.20	1	U	EPA 6010B
7440-62-2	Vanadium	0.20	1	U	EPA 6010B
7440-66-6	Zinc	0.89	1		EPA 6010B

Form 1

INORGANIC ANALYSIS DATA SHEET

STLC-Met

02HMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-07 File ID:

Sampled: 05/08/10 08:38 Prepared: 05/27/10 13:00 Analyzed: 05/29/10 12:00

Solids: 0.00 Preparation: STLC - Met Initial/Final: 50 g / 500 ml

Batch: 10E3670 Sequence: Calibration: Instrument: Inst

CAS NO.	Analyte	Concentration (N/A)	Dilution Factor	Q	Method
Extract	Extraction	DET	1		STLC-Met

Form 1

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

02HMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-07 File ID: 100601-2-059

Sampled: 05/08/10 08:38 Prepared: 06/01/10 10:20 Analyzed: 06/01/10 18:26

Solids: 0.00 Preparation: Filtration-Metals Initial/Final: 0.5 ml / 10 ml

Batch: 10F0084 Sequence: T000424 Calibration: I10F028 Instrument: ICP5

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7429-90-5	Aluminum	25	1		EPA 6010B
7440-36-0	Antimony	0.20	1	U	EPA 6010B
7440-38-2	Arsenic	0.20	1	U	EPA 6010B
7440-39-3	Barium	2.7	1		EPA 6010B
7440-41-7	Beryllium	0.080	1	U	EPA 6010B
7440-43-9	Cadmium	0.10	1	U	EPA 6010B
7440-70-2	Calcium	130	1		EPA 6010B
7440-47-3	Chromium	1.7	1		EPA 6010B
7440-48-4	Cobalt	2.3	1		EPA 6010B
7440-50-8	Copper	0.20	1	U	EPA 6010B
7439-89-6	Iron	170	1		EPA 6010B
7439-92-1	Lead	0.10	1	U	EPA 6010B
7439-95-4	Magnesium	450	1		EPA 6010B
7439-96-5	Manganese	13	1		EPA 6010B
7440-02-0	Nickel	29	1	E	EPA 6010B
7440-09-7	Potassium	20	1	B	EPA 6010B
7782-49-2	Selenium	0.20	1	U	EPA 6010B
7440-22-4	Silver	0.20	1	U	EPA 6010B
7440-28-0	Thallium	0.20	1	U	EPA 6010B
7440-62-2	Vanadium	0.20	1	U	EPA 6010B
7440-66-6	Zinc	0.56	1		EPA 6010B

Form 1

INORGANIC ANALYSIS DATA SHEET

STLC-Met

05HMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-08 File ID:

Sampled: 05/11/10 13:15 Prepared: 05/27/10 13:00 Analyzed: 05/29/10 12:00

Solids: 0.00 Preparation: STLC - Met Initial/Final: 50 g / 500 ml

Batch: 10E3670 Sequence: Calibration: Instrument: Inst

CAS NO.	Analyte	Concentration (N/A)	Dilution Factor	Q	Method
Extract	Extraction	DET	1		STLC-Met

Form 1

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

05HMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-08 File ID: 100601-2-060

Sampled: 05/11/10 13:15 Prepared: 06/01/10 10:20 Analyzed: 06/01/10 18:29

Solids: 0.00 Preparation: Filtration-Metals Initial/Final: 0.5 ml / 10 ml

Batch: 10F0084 Sequence: T000424 Calibration: I10F028 Instrument: ICP5

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7429-90-5	Aluminum	27	1		EPA 6010B
7440-36-0	Antimony	0.20	1	U	EPA 6010B
7440-38-2	Arsenic	0.20	1	U	EPA 6010B
7440-39-3	Barium	4.6	1		EPA 6010B
7440-41-7	Beryllium	0.080	1	U	EPA 6010B
7440-43-9	Cadmium	0.10	1	U	EPA 6010B
7440-70-2	Calcium	5.8	1		EPA 6010B
7440-47-3	Chromium	0.70	1		EPA 6010B
7440-48-4	Cobalt	0.61	1		EPA 6010B
7440-50-8	Copper	0.20	1	U	EPA 6010B
7439-89-6	Iron	25	1		EPA 6010B
7439-92-1	Lead	0.10	1	U	EPA 6010B
7439-95-4	Magnesium	280	1		EPA 6010B
7439-96-5	Manganese	2.5	1		EPA 6010B
7440-02-0	Nickel	7.6	1		EPA 6010B
7440-09-7	Potassium	21	1	B	EPA 6010B
7782-49-2	Selenium	0.20	1	U	EPA 6010B
7440-22-4	Silver	0.20	1	U	EPA 6010B
7440-28-0	Thallium	0.20	1	U	EPA 6010B
7440-62-2	Vanadium	0.48	1		EPA 6010B
7440-66-6	Zinc	0.40	1	U	EPA 6010B

Form 1

INORGANIC ANALYSIS DATA SHEET

STLC-Met

08HMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-09 File ID:

Sampled: 05/07/10 15:40 Prepared: 05/27/10 13:00 Analyzed: 05/29/10 12:00

Solids: 0.00 Preparation: STLC - Met Initial/Final: 50 g / 500 ml

Batch: 10E3670 Sequence: Calibration: Instrument: Inst

CAS NO.	Analyte	Concentration (N/A)	Dilution Factor	Q	Method
Extract	Extraction	DET	1		STLC-Met

Form 1

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

08HMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-09 File ID: 100601-2-061

Sampled: 05/07/10 15:40 Prepared: 06/01/10 10:20 Analyzed: 06/01/10 18:31

Solids: 0.00 Preparation: Filtration-Metals Initial/Final: 0.5 ml / 10 ml

Batch: 10F0084 Sequence: T000424 Calibration: I10F028 Instrument: ICP5

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7429-90-5	Aluminum	34	1		EPA 6010B
7440-36-0	Antimony	0.20	1	U	EPA 6010B
7440-38-2	Arsenic	0.20	1	U	EPA 6010B
7440-39-3	Barium	0.20	1	U	EPA 6010B
7440-41-7	Beryllium	0.080	1	U	EPA 6010B
7440-43-9	Cadmium	0.10	1	U	EPA 6010B
7440-70-2	Calcium	250	1		EPA 6010B
7440-47-3	Chromium	19	1		EPA 6010B
7440-48-4	Cobalt	2.6	1		EPA 6010B
7440-50-8	Copper	0.20	1	U	EPA 6010B
7439-89-6	Iron	1200	1		EPA 6010B
7439-92-1	Lead	0.10	1	U	EPA 6010B
7439-95-4	Magnesium	2800	1		EPA 6010B
7439-96-5	Manganese	37	1		EPA 6010B
7440-02-0	Nickel	73	1	E	EPA 6010B
7440-09-7	Potassium	21	1	B	EPA 6010B
7782-49-2	Selenium	0.20	1	U	EPA 6010B
7440-22-4	Silver	0.20	1	U	EPA 6010B
7440-28-0	Thallium	0.20	1	U	EPA 6010B
7440-62-2	Vanadium	0.41	1		EPA 6010B
7440-66-6	Zinc	0.84	1		EPA 6010B

Form 1

INORGANIC ANALYSIS DATA SHEET

STLC-Met

09SMMW

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-10 File ID:

Sampled: 04/25/10 14:16 Prepared: 05/27/10 13:00 Analyzed: 05/29/10 12:00

Solids: 0.00 Preparation: STLC - Met Initial/Final: 50 g / 500 ml

Batch: 10E3670 Sequence: Calibration: Instrument: Inst

CAS NO.	Analyte	Concentration (N/A)	Dilution Factor	Q	Method
Extract	Extraction	DET	1		STLC-Met

Form 1

INORGANIC ANALYSIS DATA SHEET

EPA 6010B

09SMMW

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-10 File ID: 100601-2-065

Sampled: 04/25/10 14:16 Prepared: 06/01/10 10:20 Analyzed: 06/01/10 18:46

Solids: 0.00 Preparation: Filtration-Metals Initial/Final: 0.5 ml / 10 ml

Batch: 10F0084 Sequence: T000424 Calibration: I10F028 Instrument: ICP5

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7429-90-5	Aluminum	29	1		EPA 6010B
7440-36-0	Antimony	0.20	1	U	EPA 6010B
7440-38-2	Arsenic	0.20	1	U	EPA 6010B
7440-39-3	Barium	9.6	1		EPA 6010B
7440-41-7	Beryllium	0.080	1	U	EPA 6010B
7440-43-9	Cadmium	0.10	1	U	EPA 6010B
7440-70-2	Calcium	120	1		EPA 6010B
7440-47-3	Chromium	0.76	1		EPA 6010B
7440-48-4	Cobalt	0.57	1		EPA 6010B
7440-50-8	Copper	0.42	1		EPA 6010B
7439-89-6	Iron	110	1		EPA 6010B
7439-92-1	Lead	0.14	1		EPA 6010B
7439-95-4	Magnesium	110	1		EPA 6010B
7439-96-5	Manganese	6.2	1		EPA 6010B
7440-02-0	Nickel	2.3	1		EPA 6010B
7440-09-7	Potassium	21	1	B	EPA 6010B
7782-49-2	Selenium	0.20	1	U	EPA 6010B
7440-22-4	Silver	0.20	1	U	EPA 6010B
7440-28-0	Thallium	0.20	1	U	EPA 6010B
7440-62-2	Vanadium	0.28	1		EPA 6010B
7440-66-6	Zinc	0.40	1	U	EPA 6010B

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA 6010B METALS
ICV/CCV Summary

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 www.testamericainc.com

ICV / CCV SUMMARY for ICP

Calibration Date: 6/01/10
ICV Source: 9120662,9120663,910071,9070155,9070504,8090281
CCV Source: 9090389,9120660,9110418

ANALYTE	ICV True Value (mg/L)	CCV True Value (mg/L)
Aluminum	2.0	1.0
Antimony	2.0	1.0
Arsenic	2.0	1.0
Barium	2.0	1.0
Beryllium	2.0	1.0
Boron	2.0	1.0
Cadmium	2.0	1.0
Calcium	2.0	10.0
Chromium	2.0	1.0
Cobalt	2.0	1.0
Copper	2.0	1.0
Iron	2.0	1.0
Lead	2.0	1.0
Magnesium	2.0	1.0
Manganese	2.0	1.0
Molydenum	2.0	1.0
Nickel	2.0	1.0
Phosphorus	2.0	1.0
Potassium	20.0	10
Selenium	2.0	1.0
Silicon	10	5.0
Silver	1.0	0.5
Sodium	20.0	10
Strontium	2.0	1.0
Thallium	2.0	1.0
Titanium	2.0	1.0
Tin	2.0	1.0
Vanadium	2.0	1.0
Zinc	2.0	1.0
Tungsten	5.0	1.0
Zirconium	5.0	1.0

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Project: ERM-West Sacramento
Instrument ID: ICP5
Calibration: I10F028
Control Limt: +/- 10.00%
Sequence: T000424

Lab Sample ID	Analyte	True	Found	%R	Limit	Units	Method	Analyzed
T000424-ICV1	Antimony	2.00	1.97	98	90 - 110	mg/l	EPA 6010B	6/1/10 15:33
	Arsenic	2.00	2.06	103	90 - 110	mg/l	EPA 6010B	6/1/10 15:33
	Barium	2.00	1.98	99	90 - 110	mg/l	EPA 6010B	6/1/10 15:33
	Beryllium	2.00	1.99	99	90 - 110	mg/l	EPA 6010B	6/1/10 15:33
	Cadmium	2.00	1.93	96	90 - 110	mg/l	EPA 6010B	6/1/10 15:33
	Chromium	2.00	1.92	96	90 - 110	mg/l	EPA 6010B	6/1/10 15:33
	Cobalt	2.00	1.87	94	90 - 110	mg/l	EPA 6010B	6/1/10 15:33
	Copper	2.00	1.94	97	90 - 110	mg/l	EPA 6010B	6/1/10 15:33
	Lead	2.00	1.90	95	90 - 110	mg/l	EPA 6010B	6/1/10 15:33
	Nickel	2.00	1.93	96	90 - 110	mg/l	EPA 6010B	6/1/10 15:33
	Selenium	2.00	1.94	97	90 - 110	mg/l	EPA 6010B	6/1/10 15:33
	Silver	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/1/10 15:33
	Thallium	2.00	1.92	96	90 - 110	mg/l	EPA 6010B	6/1/10 15:33
	Vanadium	2.00	1.98	99	90 - 110	mg/l	EPA 6010B	6/1/10 15:33
	Zinc	2.00	1.94	97	90 - 110	mg/l	EPA 6010B	6/1/10 15:33
T000424-CCV1	Antimony	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/1/10 16:44
	Arsenic	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/1/10 16:44
	Barium	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 16:44
	Beryllium	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/1/10 16:44
	Cadmium	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 16:44
	Chromium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/1/10 16:44
	Cobalt	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 16:44
	Copper	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 16:44
	Lead	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/1/10 16:44
	Nickel	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 16:44
	Selenium	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/1/10 16:44
	Silver	0.500	0.523	105	90 - 110	mg/l	EPA 6010B	6/1/10 16:44
	Thallium	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/1/10 16:44
	Vanadium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/1/10 16:44
	Zinc	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 16:44
T000424-CCV2	Antimony	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/1/10 17:21
	Arsenic	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/1/10 17:21
	Barium	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/1/10 17:21
	Beryllium	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/1/10 17:21
	Cadmium	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/1/10 17:21
	Chromium	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/1/10 17:21
	Cobalt	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 17:21
	Copper	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/1/10 17:21
	Lead	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/1/10 17:21
	Nickel	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/1/10 17:21
	Selenium	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/1/10 17:21
	Silver	0.500	0.516	103	90 - 110	mg/l	EPA 6010B	6/1/10 17:21
	Thallium	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/1/10 17:21
	Vanadium	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 17:21
	Zinc	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/1/10 17:21
T000424-CCV3	Antimony	1.00	1.00	100	90 - 110	mg/l	EPA 6010B	6/1/10 17:55

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Project: ERM-West Sacramento
Instrument ID: ICP5
Calibration: I10F028
Control Limt: +/- 10.00%
Sequence: T000424

Lab Sample ID	Analyte	True	Found	%R	Limit	Units	Method	Analyzed
T000424-CCV3	Arsenic	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 17:55
	Barium	1.00	1.00	100	90 - 110	mg/l	EPA 6010B	6/1/10 17:55
	Beryllium	1.00	1.00	100	90 - 110	mg/l	EPA 6010B	6/1/10 17:55
	Cadmium	1.00	1.00	100	90 - 110	mg/l	EPA 6010B	6/1/10 17:55
	Chromium	1.00	1.00	100	90 - 110	mg/l	EPA 6010B	6/1/10 17:55
	Cobalt	1.00	1.00	100	90 - 110	mg/l	EPA 6010B	6/1/10 17:55
	Copper	1.00	0.997	100	90 - 110	mg/l	EPA 6010B	6/1/10 17:55
	Lead	1.00	1.00	100	90 - 110	mg/l	EPA 6010B	6/1/10 17:55
	Nickel	1.00	0.993	99	90 - 110	mg/l	EPA 6010B	6/1/10 17:55
	Selenium	1.00	0.998	100	90 - 110	mg/l	EPA 6010B	6/1/10 17:55
	Silver	0.500	0.505	101	90 - 110	mg/l	EPA 6010B	6/1/10 17:55
	Thallium	1.00	1.00	100	90 - 110	mg/l	EPA 6010B	6/1/10 17:55
	Vanadium	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 17:55
	Zinc	1.00	0.989	99	90 - 110	mg/l	EPA 6010B	6/1/10 17:55
T000424-CCV4	Antimony	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 18:34
	Arsenic	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/1/10 18:34
	Barium	1.00	1.00	100	90 - 110	mg/l	EPA 6010B	6/1/10 18:34
	Beryllium	1.00	1.00	100	90 - 110	mg/l	EPA 6010B	6/1/10 18:34
	Cadmium	1.00	0.999	100	90 - 110	mg/l	EPA 6010B	6/1/10 18:34
	Chromium	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 18:34
	Cobalt	1.00	1.00	100	90 - 110	mg/l	EPA 6010B	6/1/10 18:34
	Copper	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 18:34
	Lead	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 18:34
	Nickel	1.00	0.994	99	90 - 110	mg/l	EPA 6010B	6/1/10 18:34
	Selenium	1.00	1.00	100	90 - 110	mg/l	EPA 6010B	6/1/10 18:34
	Silver	0.500	0.504	101	90 - 110	mg/l	EPA 6010B	6/1/10 18:34
	Thallium	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 18:34
	Vanadium	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 18:34
	Zinc	1.00	0.992	99	90 - 110	mg/l	EPA 6010B	6/1/10 18:34
T000424-CCV5	Antimony	1.00	1.09	109	90 - 110	mg/l	EPA 6010B	6/1/10 19:12
	Arsenic	1.00	1.10	110	90 - 110	mg/l	EPA 6010B	6/1/10 19:12
	Barium	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/1/10 19:12
	Beryllium	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/1/10 19:12
	Cadmium	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/1/10 19:12
	Chromium	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/1/10 19:12
	Cobalt	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/1/10 19:12
	Copper	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/1/10 19:12
	Lead	1.00	1.09	109	90 - 110	mg/l	EPA 6010B	6/1/10 19:12
	Nickel	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/1/10 19:12
	Selenium	1.00	1.09	109	90 - 110	mg/l	EPA 6010B	6/1/10 19:12
	Silver	0.500	0.540	108	90 - 110	mg/l	EPA 6010B	6/1/10 19:12
	Thallium	1.00	1.09	109	90 - 110	mg/l	EPA 6010B	6/1/10 19:12
	Vanadium	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/1/10 19:12
	Zinc	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/1/10 19:12
T000424-CCV6	Antimony	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/1/10 20:21
	Arsenic	1.00	1.09	109	90 - 110	mg/l	EPA 6010B	6/1/10 20:21

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Project: ERM-West Sacramento
Instrument ID: ICP5
Calibration: I10F028
Control Limt: +/- 10.00%
Sequence: T000424

Lab Sample ID	Analyte	True	Found	%R	Limit	Units	Method	Analyzed
T000424-CCV6	Barium	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/1/10 20:21
	Beryllium	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/1/10 20:21
	Cadmium	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/1/10 20:21
	Chromium	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/1/10 20:21
	Cobalt	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/1/10 20:21
	Copper	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/1/10 20:21
	Lead	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/1/10 20:21
	Nickel	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/1/10 20:21
	Selenium	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/1/10 20:21
	Silver	0.500	0.535	107	90 - 110	mg/l	EPA 6010B	6/1/10 20:21
	Thallium	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/1/10 20:21
	Vanadium	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/1/10 20:21
	Zinc	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/1/10 20:21
T000424-CCV7	Antimony	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/1/10 20:29
	Arsenic	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/1/10 20:29
	Barium	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 20:29
	Beryllium	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/1/10 20:29
	Cadmium	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 20:29
	Chromium	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 20:29
	Cobalt	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 20:29
	Copper	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 20:29
	Lead	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 20:29
	Nickel	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/1/10 20:29
	Selenium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/1/10 20:29
	Silver	0.500	0.518	104	90 - 110	mg/l	EPA 6010B	6/1/10 20:29
	Thallium	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 20:29
	Vanadium	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 20:29
	Zinc	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/1/10 20:29
T000424-CCV8	Antimony	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 21:05
	Arsenic	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/1/10 21:05
	Barium	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/1/10 21:05
	Beryllium	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/1/10 21:05
	Cadmium	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/1/10 21:05
	Chromium	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/1/10 21:05
	Cobalt	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/1/10 21:05
	Copper	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 21:05
	Lead	1.00	1.00	100	90 - 110	mg/l	EPA 6010B	6/1/10 21:05
	Nickel	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 21:05
	Selenium	1.00	1.00	100	90 - 110	mg/l	EPA 6010B	6/1/10 21:05
	Silver	0.500	0.509	102	90 - 110	mg/l	EPA 6010B	6/1/10 21:05
	Thallium	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 21:05
	Vanadium	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 21:05
	Zinc	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 21:05
T000424-CCV9	Antimony	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/1/10 21:40
	Arsenic	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/1/10 21:40
	Barium	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/1/10 21:40

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Project: ERM-West Sacramento
Instrument ID: ICP5
Calibration: I10F028
Control Limt: +/- 10.00%
Sequence: T000424

Lab Sample ID	Analyte	True	Found	%R	Limit	Units	Method	Analyzed
T000424-CCV9	Beryllium	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/1/10 21:40
	Cadmium	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/1/10 21:40
	Chromium	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/1/10 21:40
	Cobalt	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/1/10 21:40
	Copper	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/1/10 21:40
	Lead	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/1/10 21:40
	Nickel	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/1/10 21:40
	Selenium	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/1/10 21:40
	Silver	0.500	0.529	106	90 - 110	mg/l	EPA 6010B	6/1/10 21:40
	Thallium	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/1/10 21:40
	Vanadium	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/1/10 21:40
	Zinc	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/1/10 21:40
T000424-CCVA	Antimony	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 22:14
	Arsenic	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/1/10 22:14
	Barium	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 22:14
	Beryllium	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 22:14
	Cadmium	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 22:14
	Chromium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/1/10 22:14
	Cobalt	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/1/10 22:14
	Copper	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 22:14
	Lead	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 22:14
	Nickel	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 22:14
	Selenium	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 22:14
	Silver	0.500	0.525	105	90 - 110	mg/l	EPA 6010B	6/1/10 22:14
	Thallium	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/1/10 22:14
	Vanadium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/1/10 22:14
	Zinc	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/1/10 22:14
T000424-CCVB	Antimony	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 22:47
	Arsenic	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/1/10 22:47
	Barium	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 22:47
	Beryllium	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 22:47
	Cadmium	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/1/10 22:47
	Chromium	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 22:47
	Cobalt	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 22:47
	Copper	1.00	0.994	99	90 - 110	mg/l	EPA 6010B	6/1/10 22:47
	Lead	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/1/10 22:47
	Nickel	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 22:47
	Selenium	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/1/10 22:47
	Silver	0.500	0.499	100	90 - 110	mg/l	EPA 6010B	6/1/10 22:47
	Thallium	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 22:47
	Vanadium	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 22:47
	Zinc	1.00	0.999	100	90 - 110	mg/l	EPA 6010B	6/1/10 22:47
T000424-CCVC	Antimony	1.00	0.989	99	90 - 110	mg/l	EPA 6010B	6/1/10 23:21
	Arsenic	1.00	1.00	100	90 - 110	mg/l	EPA 6010B	6/1/10 23:21
	Barium	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 23:21
	Beryllium	1.00	0.995	100	90 - 110	mg/l	EPA 6010B	6/1/10 23:21

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Project: ERM-West Sacramento
Instrument ID: ICP5
Calibration: I10F028
Control Limt: +/- 10.00%
Sequence: T000424

Lab Sample ID	Analyte	True	Found	%R	Limit	Units	Method	Analyzed
T000424-CCVC	Cadmium	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 23:21
	Chromium	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 23:21
	Cobalt	1.00	0.998	100	90 - 110	mg/l	EPA 6010B	6/1/10 23:21
	Copper	1.00	0.993	99	90 - 110	mg/l	EPA 6010B	6/1/10 23:21
	Lead	1.00	1.00	100	90 - 110	mg/l	EPA 6010B	6/1/10 23:21
	Nickel	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 23:21
	Selenium	1.00	1.00	100	90 - 110	mg/l	EPA 6010B	6/1/10 23:21
	Silver	0.500	0.501	100	90 - 110	mg/l	EPA 6010B	6/1/10 23:21
	Thallium	1.00	0.998	100	90 - 110	mg/l	EPA 6010B	6/1/10 23:21
	Vanadium	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/1/10 23:21
	Zinc	1.00	0.999	100	90 - 110	mg/l	EPA 6010B	6/1/10 23:21
T000424-CCVD	Antimony	1.00	1.09	109	90 - 110	mg/l	EPA 6010B	6/1/10 23:56
	Arsenic	1.00	1.11	111 *	90 - 110	mg/l	EPA 6010B	6/1/10 23:56
	Barium	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/1/10 23:56
	Beryllium	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/1/10 23:56
	Cadmium	1.00	1.09	109	90 - 110	mg/l	EPA 6010B	6/1/10 23:56
	Chromium	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/1/10 23:56
	Cobalt	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/1/10 23:56
	Copper	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/1/10 23:56
	Lead	1.00	1.11	111 *	90 - 110	mg/l	EPA 6010B	6/1/10 23:56
	Nickel	1.00	1.09	109	90 - 110	mg/l	EPA 6010B	6/1/10 23:56
	Selenium	1.00	1.10	110	90 - 110	mg/l	EPA 6010B	6/1/10 23:56
	Silver	0.500	0.528	106	90 - 110	mg/l	EPA 6010B	6/1/10 23:56
	Thallium	1.00	1.09	109	90 - 110	mg/l	EPA 6010B	6/1/10 23:56
	Vanadium	1.00	1.09	109	90 - 110	mg/l	EPA 6010B	6/1/10 23:56
	Zinc	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/1/10 23:56
T000424-CCVE	Antimony	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/2/10 0:30
	Arsenic	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/2/10 0:30
	Barium	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/2/10 0:30
	Beryllium	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/2/10 0:30
	Cadmium	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/2/10 0:30
	Chromium	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/2/10 0:30
	Cobalt	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/2/10 0:30
	Copper	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/2/10 0:30
	Lead	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/2/10 0:30
	Nickel	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/2/10 0:30
	Selenium	1.00	1.08	108	90 - 110	mg/l	EPA 6010B	6/2/10 0:30
	Silver	0.500	0.535	107	90 - 110	mg/l	EPA 6010B	6/2/10 0:30
	Thallium	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/2/10 0:30
	Vanadium	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/2/10 0:30
	Zinc	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/2/10 0:30
T000424-CCVF	Antimony	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/2/10 1:04
	Arsenic	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/2/10 1:04
	Barium	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/2/10 1:04
	Beryllium	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/2/10 1:04
	Cadmium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/2/10 1:04

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Project: ERM-West Sacramento
Instrument ID: ICP5
Calibration: I10F028
Control Limt: +/- 10.00%
Sequence: T000424

Lab Sample ID	Analyte	True	Found	%R	Limit	Units	Method	Analyzed
T000424-CCVF	Chromium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/2/10 1:04
	Cobalt	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/2/10 1:04
	Copper	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/2/10 1:04
	Lead	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/2/10 1:04
	Nickel	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/2/10 1:04
	Selenium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/2/10 1:04
	Silver	0.500	0.517	103	90 - 110	mg/l	EPA 6010B	6/2/10 1:04
	Thallium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/2/10 1:04
	Vanadium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/2/10 1:04
	Zinc	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/2/10 1:04
T000424-CCVG	Antimony	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/2/10 1:38
	Arsenic	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/2/10 1:38
	Barium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/2/10 1:38
	Beryllium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/2/10 1:38
	Cadmium	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/2/10 1:38
	Chromium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/2/10 1:38
	Cobalt	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/2/10 1:38
	Copper	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/2/10 1:38
	Lead	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/2/10 1:38
	Nickel	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/2/10 1:38
	Selenium	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/2/10 1:38
	Silver	0.500	0.521	104	90 - 110	mg/l	EPA 6010B	6/2/10 1:38
	Thallium	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/2/10 1:38
	Vanadium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/2/10 1:38
	Zinc	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/2/10 1:38
T000424-CCVH	Antimony	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/2/10 2:13
	Arsenic	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/2/10 2:13
	Barium	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/2/10 2:13
	Beryllium	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/2/10 2:13
	Cadmium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/2/10 2:13
	Chromium	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/2/10 2:13
	Cobalt	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/2/10 2:13
	Copper	1.00	1.01	101	90 - 110	mg/l	EPA 6010B	6/2/10 2:13
	Lead	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/2/10 2:13
	Nickel	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/2/10 2:13
	Selenium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/2/10 2:13
	Silver	0.500	0.513	103	90 - 110	mg/l	EPA 6010B	6/2/10 2:13
	Thallium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/2/10 2:13
	Vanadium	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/2/10 2:13
	Zinc	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/2/10 2:13
T000424-CCVI	Antimony	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/2/10 2:47
	Arsenic	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/2/10 2:47
	Barium	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/2/10 2:47
	Beryllium	1.00	1.03	103	90 - 110	mg/l	EPA 6010B	6/2/10 2:47
	Cadmium	1.00	1.06	106	90 - 110	mg/l	EPA 6010B	6/2/10 2:47
	Chromium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/2/10 2:47

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Project: ERM-West Sacramento
Instrument ID: ICP5
Calibration: I10F028
Control Limt: +/- 10.00%
Sequence: T000424

Lab Sample ID	Analyte	True	Found	%R	Limit	Units	Method	Analyzed
T000424-CCVI	Cobalt	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/2/10 2:47
	Copper	1.00	1.02	102	90 - 110	mg/l	EPA 6010B	6/2/10 2:47
	Lead	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/2/10 2:47
	Nickel	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/2/10 2:47
	Selenium	1.00	1.05	105	90 - 110	mg/l	EPA 6010B	6/2/10 2:47
	Silver	0.500	0.521	104	90 - 110	mg/l	EPA 6010B	6/2/10 2:47
	Thallium	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/2/10 2:47
	Vanadium	1.00	1.04	104	90 - 110	mg/l	EPA 6010B	6/2/10 2:47
	Zinc	1.00	1.07	107	90 - 110	mg/l	EPA 6010B	6/2/10 2:47

* Values outside of QC limits

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA 6010B METALS
ICB/CCB Summary

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 tel 949.261.1022 fax 949.260.3297 www.testamericainc.com

BLANKS
EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Instrument ID: ICP5
Project: ERM-West Sacramento
Sequence: T000424
Calibration: I10F028

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
T000424-ICB1	Antimony	0.00839	0.010	mg/l		EPA 6010B	6/1/10 15:36
	Arsenic	-0.000694	0.010	mg/l		EPA 6010B	6/1/10 15:36
	Barium	0.000387	0.010	mg/l		EPA 6010B	6/1/10 15:36
	Beryllium	0.000104	0.0040	mg/l		EPA 6010B	6/1/10 15:36
	Cadmium	0.000118	0.0050	mg/l		EPA 6010B	6/1/10 15:36
	Chromium	0.0000519	0.0050	mg/l		EPA 6010B	6/1/10 15:36
	Cobalt	-0.0000204	0.010	mg/l		EPA 6010B	6/1/10 15:36
	Copper	-0.000213	0.010	mg/l		EPA 6010B	6/1/10 15:36
	Lead	0.000114	0.0050	mg/l		EPA 6010B	6/1/10 15:36
	Nickel	0.000362	0.010	mg/l		EPA 6010B	6/1/10 15:36
	Selenium	-0.000935	0.010	mg/l		EPA 6010B	6/1/10 15:36
	Silver	0.00111	0.010	mg/l		EPA 6010B	6/1/10 15:36
	Thallium	0.000682	0.010	mg/l		EPA 6010B	6/1/10 15:36
	Vanadium	0.000609	0.010	mg/l		EPA 6010B	6/1/10 15:36
	Zinc	-0.0000395	0.020	mg/l		EPA 6010B	6/1/10 15:36
T000424-ICB2	Antimony	-0.00394	0.010	mg/l		EPA 6010B	6/1/10 16:06
	Arsenic	-0.00108	0.010	mg/l		EPA 6010B	6/1/10 16:06
	Barium	-0.0000323	0.010	mg/l		EPA 6010B	6/1/10 16:06
	Beryllium	0.0000365	0.0040	mg/l		EPA 6010B	6/1/10 16:06
	Cadmium	0.0000525	0.0050	mg/l		EPA 6010B	6/1/10 16:06
	Chromium	0.000152	0.0050	mg/l		EPA 6010B	6/1/10 16:06
	Cobalt	-0.0000380	0.010	mg/l		EPA 6010B	6/1/10 16:06
	Copper	-0.000746	0.010	mg/l		EPA 6010B	6/1/10 16:06
	Lead	-0.000441	0.0050	mg/l		EPA 6010B	6/1/10 16:06
	Nickel	0.000386	0.010	mg/l		EPA 6010B	6/1/10 16:06
	Selenium	0.000659	0.010	mg/l		EPA 6010B	6/1/10 16:06
	Silver	0.000969	0.010	mg/l		EPA 6010B	6/1/10 16:06
	Thallium	-0.000607	0.010	mg/l		EPA 6010B	6/1/10 16:06
	Vanadium	0.000603	0.010	mg/l		EPA 6010B	6/1/10 16:06
	Zinc	-0.000231	0.020	mg/l		EPA 6010B	6/1/10 16:06
T000424-CCB1	Antimony	0.0138	0.010	mg/l	*	EPA 6010B	6/1/10 16:47
	Arsenic	0.00243	0.010	mg/l		EPA 6010B	6/1/10 16:47
	Barium	0.000161	0.010	mg/l		EPA 6010B	6/1/10 16:47
	Beryllium	-0.0000733	0.0040	mg/l		EPA 6010B	6/1/10 16:47
	Cadmium	0.0000707	0.0050	mg/l		EPA 6010B	6/1/10 16:47
	Chromium	0.00318	0.0050	mg/l		EPA 6010B	6/1/10 16:47
	Cobalt	0.0000419	0.010	mg/l		EPA 6010B	6/1/10 16:47
	Copper	-0.000349	0.010	mg/l		EPA 6010B	6/1/10 16:47
	Lead	0.000315	0.0050	mg/l		EPA 6010B	6/1/10 16:47
	Nickel	0.00174	0.010	mg/l		EPA 6010B	6/1/10 16:47
	Selenium	-0.00310	0.010	mg/l		EPA 6010B	6/1/10 16:47
	Silver	-0.00236	0.010	mg/l		EPA 6010B	6/1/10 16:47
	Thallium	0.00105	0.010	mg/l		EPA 6010B	6/1/10 16:47
	Vanadium	0.000584	0.010	mg/l		EPA 6010B	6/1/10 16:47
	Zinc	0.000239	0.020	mg/l		EPA 6010B	6/1/10 16:47

BLANKS
EPA 6010B

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle

Instrument ID: ICP5 Project: ERM-West Sacramento

Sequence: T000424 Calibration: I10F028

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
T000424-CCB2	Antimony	0.0141	0.010	mg/l	*	EPA 6010B	6/1/10 17:24
	Arsenic	0.00164	0.010	mg/l		EPA 6010B	6/1/10 17:24
	Barium	0.000488	0.010	mg/l		EPA 6010B	6/1/10 17:24
	Beryllium	0.0000803	0.0040	mg/l		EPA 6010B	6/1/10 17:24
	Cadmium	0.0000563	0.0050	mg/l		EPA 6010B	6/1/10 17:24
	Chromium	0.00282	0.0050	mg/l		EPA 6010B	6/1/10 17:24
	Cobalt	6.18E-6	0.010	mg/l		EPA 6010B	6/1/10 17:24
	Copper	0.000232	0.010	mg/l		EPA 6010B	6/1/10 17:24
	Lead	-0.000151	0.0050	mg/l		EPA 6010B	6/1/10 17:24
	Nickel	0.00184	0.010	mg/l		EPA 6010B	6/1/10 17:24
	Selenium	0.00184	0.010	mg/l		EPA 6010B	6/1/10 17:24
	Silver	-0.00153	0.010	mg/l		EPA 6010B	6/1/10 17:24
	Thallium	0.0000284	0.010	mg/l		EPA 6010B	6/1/10 17:24
	Vanadium	0.000301	0.010	mg/l		EPA 6010B	6/1/10 17:24
	Zinc	0.000235	0.020	mg/l		EPA 6010B	6/1/10 17:24
10F0084-BLK1	Aluminum	ND	1.0	mg/l		EPA 6010B	6/1/10 17:38
	Antimony	ND	0.20	mg/l		EPA 6010B	6/1/10 17:38
	Arsenic	ND	0.20	mg/l		EPA 6010B	6/1/10 17:38
	Barium	ND	0.20	mg/l		EPA 6010B	6/1/10 17:38
	Beryllium	ND	0.080	mg/l		EPA 6010B	6/1/10 17:38
	Cadmium	ND	0.10	mg/l		EPA 6010B	6/1/10 17:38
	Calcium	ND	2.0	mg/l		EPA 6010B	6/1/10 17:38
	Chromium	ND	0.10	mg/l		EPA 6010B	6/1/10 17:38
	Cobalt	ND	0.20	mg/l		EPA 6010B	6/1/10 17:38
	Copper	ND	0.20	mg/l		EPA 6010B	6/1/10 17:38
	Iron	ND	0.80	mg/l		EPA 6010B	6/1/10 17:38
	Lead	ND	0.10	mg/l		EPA 6010B	6/1/10 17:38
	Magnesium	ND	0.40	mg/l		EPA 6010B	6/1/10 17:38
	Manganese	ND	0.40	mg/l		EPA 6010B	6/1/10 17:38
	Nickel	ND	0.20	mg/l		EPA 6010B	6/1/10 17:38
	Potassium	16.6	10	mg/l	*	EPA 6010B	6/1/10 17:38
	Selenium	ND	0.20	mg/l		EPA 6010B	6/1/10 17:38
	Silver	ND	0.20	mg/l		EPA 6010B	6/1/10 17:38
	Thallium	ND	0.20	mg/l		EPA 6010B	6/1/10 17:38
	Vanadium	ND	0.20	mg/l		EPA 6010B	6/1/10 17:38
	Zinc	ND	0.40	mg/l		EPA 6010B	6/1/10 17:38
T000424-CCB3	Antimony	0.0129	0.010	mg/l	*	EPA 6010B	6/1/10 17:58
	Arsenic	-0.000559	0.010	mg/l		EPA 6010B	6/1/10 17:58
	Barium	0.000308	0.010	mg/l		EPA 6010B	6/1/10 17:58
	Beryllium	6.87E-6	0.0040	mg/l		EPA 6010B	6/1/10 17:58
	Cadmium	0.0000864	0.0050	mg/l		EPA 6010B	6/1/10 17:58
	Chromium	0.00279	0.0050	mg/l		EPA 6010B	6/1/10 17:58
	Cobalt	-0.0000276	0.010	mg/l		EPA 6010B	6/1/10 17:58
	Copper	-0.000645	0.010	mg/l		EPA 6010B	6/1/10 17:58
	Lead	8.41E-6	0.0050	mg/l		EPA 6010B	6/1/10 17:58

BLANKS
EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Instrument ID: ICP5
Project: ERM-West Sacramento
Sequence: T000424
Calibration: I10F028

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
T000424-CCB3	Nickel	0.00199	0.010	mg/l		EPA 6010B	6/1/10 17:58
	Selenium	0.00181	0.010	mg/l		EPA 6010B	6/1/10 17:58
	Silver	0.000917	0.010	mg/l		EPA 6010B	6/1/10 17:58
	Thallium	0.00185	0.010	mg/l		EPA 6010B	6/1/10 17:58
	Vanadium	0.000690	0.010	mg/l		EPA 6010B	6/1/10 17:58
	Zinc	0.0000510	0.020	mg/l		EPA 6010B	6/1/10 17:58
T000424-CCB4	Antimony	0.0185	0.010	mg/l	*	EPA 6010B	6/1/10 18:37
	Arsenic	-0.00112	0.010	mg/l		EPA 6010B	6/1/10 18:37
	Barium	0.000275	0.010	mg/l		EPA 6010B	6/1/10 18:37
	Beryllium	0.000104	0.0040	mg/l		EPA 6010B	6/1/10 18:37
	Cadmium	0.000128	0.0050	mg/l		EPA 6010B	6/1/10 18:37
	Chromium	0.00263	0.0050	mg/l		EPA 6010B	6/1/10 18:37
	Cobalt	-0.0000577	0.010	mg/l		EPA 6010B	6/1/10 18:37
	Copper	-0.000628	0.010	mg/l		EPA 6010B	6/1/10 18:37
	Lead	0.000280	0.0050	mg/l		EPA 6010B	6/1/10 18:37
	Nickel	0.00207	0.010	mg/l		EPA 6010B	6/1/10 18:37
	Selenium	0.00186	0.010	mg/l		EPA 6010B	6/1/10 18:37
	Silver	0.00120	0.010	mg/l		EPA 6010B	6/1/10 18:37
	Thallium	0.0000648	0.010	mg/l		EPA 6010B	6/1/10 18:37
	Vanadium	0.000879	0.010	mg/l		EPA 6010B	6/1/10 18:37
	Zinc	-0.000102	0.020	mg/l		EPA 6010B	6/1/10 18:37
T000424-CCB5	Antimony	0.0159	0.010	mg/l	*	EPA 6010B	6/1/10 19:15
	Arsenic	0.000610	0.010	mg/l		EPA 6010B	6/1/10 19:15
	Barium	0.000222	0.010	mg/l		EPA 6010B	6/1/10 19:15
	Beryllium	-0.0000513	0.0040	mg/l		EPA 6010B	6/1/10 19:15
	Cadmium	0.000108	0.0050	mg/l		EPA 6010B	6/1/10 19:15
	Chromium	0.00307	0.0050	mg/l		EPA 6010B	6/1/10 19:15
	Cobalt	0.0000898	0.010	mg/l		EPA 6010B	6/1/10 19:15
	Copper	0.000298	0.010	mg/l		EPA 6010B	6/1/10 19:15
	Lead	-0.0000876	0.0050	mg/l		EPA 6010B	6/1/10 19:15
	Nickel	0.00167	0.010	mg/l		EPA 6010B	6/1/10 19:15
	Selenium	0.000191	0.010	mg/l		EPA 6010B	6/1/10 19:15
	Silver	-0.00156	0.010	mg/l		EPA 6010B	6/1/10 19:15
	Thallium	0.000152	0.010	mg/l		EPA 6010B	6/1/10 19:15
	Vanadium	0.000708	0.010	mg/l		EPA 6010B	6/1/10 19:15
	Zinc	0.00199	0.020	mg/l		EPA 6010B	6/1/10 19:15
T000424-CCB6	Antimony	0.0154	0.010	mg/l	*	EPA 6010B	6/1/10 20:23
	Arsenic	-0.00126	0.010	mg/l		EPA 6010B	6/1/10 20:23
	Barium	0.000173	0.010	mg/l		EPA 6010B	6/1/10 20:23
	Beryllium	-0.0000991	0.0040	mg/l		EPA 6010B	6/1/10 20:23
	Cadmium	0.0000584	0.0050	mg/l		EPA 6010B	6/1/10 20:23
	Chromium	0.00313	0.0050	mg/l		EPA 6010B	6/1/10 20:23
	Cobalt	0.0000608	0.010	mg/l		EPA 6010B	6/1/10 20:23
	Copper	0.000809	0.010	mg/l		EPA 6010B	6/1/10 20:23
	Lead	-0.000410	0.0050	mg/l		EPA 6010B	6/1/10 20:23

BLANKS
EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Instrument ID: ICP5
Project: ERM-West Sacramento
Sequence: T000424
Calibration: I10F028

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
T000424-CCB6	Nickel	0.00161	0.010	mg/l		EPA 6010B	6/1/10 20:23
	Selenium	-0.00139	0.010	mg/l		EPA 6010B	6/1/10 20:23
	Silver	-0.00294	0.010	mg/l		EPA 6010B	6/1/10 20:23
	Thallium	-0.00127	0.010	mg/l		EPA 6010B	6/1/10 20:23
	Vanadium	0.000650	0.010	mg/l		EPA 6010B	6/1/10 20:23
	Zinc	0.00200	0.020	mg/l		EPA 6010B	6/1/10 20:23
T000424-CCB7	Antimony	0.0140	0.010	mg/l	*	EPA 6010B	6/1/10 20:32
	Arsenic	-0.00170	0.010	mg/l		EPA 6010B	6/1/10 20:32
	Barium	0.000158	0.010	mg/l		EPA 6010B	6/1/10 20:32
	Beryllium	-0.0000885	0.0040	mg/l		EPA 6010B	6/1/10 20:32
	Cadmium	0.0000757	0.0050	mg/l		EPA 6010B	6/1/10 20:32
	Chromium	0.00106	0.0050	mg/l		EPA 6010B	6/1/10 20:32
	Cobalt	0.0000610	0.010	mg/l		EPA 6010B	6/1/10 20:32
	Copper	-0.000353	0.010	mg/l		EPA 6010B	6/1/10 20:32
	Lead	0.000703	0.0050	mg/l		EPA 6010B	6/1/10 20:32
	Nickel	0.000509	0.010	mg/l		EPA 6010B	6/1/10 20:32
	Selenium	0.000764	0.010	mg/l		EPA 6010B	6/1/10 20:32
	Silver	-0.00270	0.010	mg/l		EPA 6010B	6/1/10 20:32
	Thallium	-0.000577	0.010	mg/l		EPA 6010B	6/1/10 20:32
	Vanadium	0.000531	0.010	mg/l		EPA 6010B	6/1/10 20:32
	Zinc	0.000828	0.020	mg/l		EPA 6010B	6/1/10 20:32
T000424-CCB8	Antimony	0.0132	0.010	mg/l	*	EPA 6010B	6/1/10 21:08
	Arsenic	-0.000540	0.010	mg/l		EPA 6010B	6/1/10 21:08
	Barium	0.000226	0.010	mg/l		EPA 6010B	6/1/10 21:08
	Beryllium	-0.0000523	0.0040	mg/l		EPA 6010B	6/1/10 21:08
	Cadmium	0.0000860	0.0050	mg/l		EPA 6010B	6/1/10 21:08
	Chromium	0.00102	0.0050	mg/l		EPA 6010B	6/1/10 21:08
	Cobalt	-0.000119	0.010	mg/l		EPA 6010B	6/1/10 21:08
	Copper	-0.000573	0.010	mg/l		EPA 6010B	6/1/10 21:08
	Lead	0.00126	0.0050	mg/l		EPA 6010B	6/1/10 21:08
	Nickel	0.000616	0.010	mg/l		EPA 6010B	6/1/10 21:08
	Selenium	-0.000288	0.010	mg/l		EPA 6010B	6/1/10 21:08
	Silver	-0.00141	0.010	mg/l		EPA 6010B	6/1/10 21:08
	Thallium	0.000231	0.010	mg/l		EPA 6010B	6/1/10 21:08
	Vanadium	0.000432	0.010	mg/l		EPA 6010B	6/1/10 21:08
	Zinc	0.000619	0.020	mg/l		EPA 6010B	6/1/10 21:08
T000424-CCB9	Antimony	0.0115	0.010	mg/l	*	EPA 6010B	6/1/10 21:43
	Arsenic	-0.000266	0.010	mg/l		EPA 6010B	6/1/10 21:43
	Barium	0.000260	0.010	mg/l		EPA 6010B	6/1/10 21:43
	Beryllium	-0.000152	0.0040	mg/l		EPA 6010B	6/1/10 21:43
	Cadmium	0.0000154	0.0050	mg/l		EPA 6010B	6/1/10 21:43
	Chromium	0.000422	0.0050	mg/l		EPA 6010B	6/1/10 21:43
	Cobalt	-4.08E-6	0.010	mg/l		EPA 6010B	6/1/10 21:43
	Copper	0.000409	0.010	mg/l		EPA 6010B	6/1/10 21:43
	Lead	-0.000237	0.0050	mg/l		EPA 6010B	6/1/10 21:43

BLANKS
EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Instrument ID: ICP5
Project: ERM-West Sacramento
Sequence: T000424
Calibration: I10F028

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
T000424-CCB9	Nickel	0.0000957	0.010	mg/l		EPA 6010B	6/1/10 21:43
	Selenium	0.0000933	0.010	mg/l		EPA 6010B	6/1/10 21:43
	Silver	-0.00243	0.010	mg/l		EPA 6010B	6/1/10 21:43
	Thallium	0.000797	0.010	mg/l		EPA 6010B	6/1/10 21:43
	Vanadium	0.000613	0.010	mg/l		EPA 6010B	6/1/10 21:43
	Zinc	0.000924	0.020	mg/l		EPA 6010B	6/1/10 21:43
T000424-CCBA	Antimony	0.0132	0.010	mg/l	*	EPA 6010B	6/1/10 22:17
	Arsenic	0.00144	0.010	mg/l		EPA 6010B	6/1/10 22:17
	Barium	0.000199	0.010	mg/l		EPA 6010B	6/1/10 22:17
	Beryllium	0.0000275	0.0040	mg/l		EPA 6010B	6/1/10 22:17
	Cadmium	0.000125	0.0050	mg/l		EPA 6010B	6/1/10 22:17
	Chromium	0.000738	0.0050	mg/l		EPA 6010B	6/1/10 22:17
	Cobalt	-0.000121	0.010	mg/l		EPA 6010B	6/1/10 22:17
	Copper	0.0000286	0.010	mg/l		EPA 6010B	6/1/10 22:17
	Lead	-0.0000562	0.0050	mg/l		EPA 6010B	6/1/10 22:17
	Nickel	0.000634	0.010	mg/l		EPA 6010B	6/1/10 22:17
	Selenium	0.00223	0.010	mg/l		EPA 6010B	6/1/10 22:17
	Silver	0.000818	0.010	mg/l		EPA 6010B	6/1/10 22:17
	Thallium	-0.000448	0.010	mg/l		EPA 6010B	6/1/10 22:17
	Vanadium	0.000434	0.010	mg/l		EPA 6010B	6/1/10 22:17
	Zinc	0.000461	0.020	mg/l		EPA 6010B	6/1/10 22:17
T000424-CCBB	Antimony	0.0115	0.010	mg/l	*	EPA 6010B	6/1/10 22:50
	Arsenic	-0.000219	0.010	mg/l		EPA 6010B	6/1/10 22:50
	Barium	0.000271	0.010	mg/l		EPA 6010B	6/1/10 22:50
	Beryllium	0.000146	0.0040	mg/l		EPA 6010B	6/1/10 22:50
	Cadmium	0.000140	0.0050	mg/l		EPA 6010B	6/1/10 22:50
	Chromium	0.000844	0.0050	mg/l		EPA 6010B	6/1/10 22:50
	Cobalt	0.0000511	0.010	mg/l		EPA 6010B	6/1/10 22:50
	Copper	-0.000489	0.010	mg/l		EPA 6010B	6/1/10 22:50
	Lead	-0.00134	0.0050	mg/l		EPA 6010B	6/1/10 22:50
	Nickel	0.00105	0.010	mg/l		EPA 6010B	6/1/10 22:50
	Selenium	-0.000245	0.010	mg/l		EPA 6010B	6/1/10 22:50
	Silver	0.00128	0.010	mg/l		EPA 6010B	6/1/10 22:50
	Thallium	0.00120	0.010	mg/l		EPA 6010B	6/1/10 22:50
	Vanadium	0.000330	0.010	mg/l		EPA 6010B	6/1/10 22:50
	Zinc	0.000290	0.020	mg/l		EPA 6010B	6/1/10 22:50
T000424-CCBC	Antimony	0.0103	0.010	mg/l	*	EPA 6010B	6/1/10 23:24
	Arsenic	0.00131	0.010	mg/l		EPA 6010B	6/1/10 23:24
	Barium	0.000235	0.010	mg/l		EPA 6010B	6/1/10 23:24
	Beryllium	0.000108	0.0040	mg/l		EPA 6010B	6/1/10 23:24
	Cadmium	0.000116	0.0050	mg/l		EPA 6010B	6/1/10 23:24
	Chromium	0.000589	0.0050	mg/l		EPA 6010B	6/1/10 23:24
	Cobalt	-0.0000419	0.010	mg/l		EPA 6010B	6/1/10 23:24
	Copper	-0.000231	0.010	mg/l		EPA 6010B	6/1/10 23:24
	Lead	-0.0000295	0.0050	mg/l		EPA 6010B	6/1/10 23:24

BLANKS
EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Instrument ID: ICP5
Project: ERM-West Sacramento
Sequence: T000424
Calibration: I10F028

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
T000424-CCBC	Nickel	0.000986	0.010	mg/l		EPA 6010B	6/1/10 23:24
	Selenium	0.00321	0.010	mg/l		EPA 6010B	6/1/10 23:24
	Silver	0.00172	0.010	mg/l		EPA 6010B	6/1/10 23:24
	Thallium	-0.000167	0.010	mg/l		EPA 6010B	6/1/10 23:24
	Vanadium	0.000352	0.010	mg/l		EPA 6010B	6/1/10 23:24
	Zinc	0.00151	0.020	mg/l		EPA 6010B	6/1/10 23:24
T000424-CCBD	Antimony	0.0158	0.010	mg/l	*	EPA 6010B	6/1/10 23:59
	Arsenic	0.00157	0.010	mg/l		EPA 6010B	6/1/10 23:59
	Barium	0.000223	0.010	mg/l		EPA 6010B	6/1/10 23:59
	Beryllium	-0.000191	0.0040	mg/l		EPA 6010B	6/1/10 23:59
	Cadmium	0.0000835	0.0050	mg/l		EPA 6010B	6/1/10 23:59
	Chromium	0.00112	0.0050	mg/l		EPA 6010B	6/1/10 23:59
	Cobalt	7.43E-6	0.010	mg/l		EPA 6010B	6/1/10 23:59
	Copper	0.000310	0.010	mg/l		EPA 6010B	6/1/10 23:59
	Lead	0.000824	0.0050	mg/l		EPA 6010B	6/1/10 23:59
	Nickel	0.000926	0.010	mg/l		EPA 6010B	6/1/10 23:59
	Selenium	0.00335	0.010	mg/l		EPA 6010B	6/1/10 23:59
	Silver	0.00120	0.010	mg/l		EPA 6010B	6/1/10 23:59
	Thallium	-0.000407	0.010	mg/l		EPA 6010B	6/1/10 23:59
	Vanadium	0.000319	0.010	mg/l		EPA 6010B	6/1/10 23:59
	Zinc	0.00121	0.020	mg/l		EPA 6010B	6/1/10 23:59
T000424-CCBE	Antimony	0.0137	0.010	mg/l	*	EPA 6010B	6/2/10 0:33
	Arsenic	0.000921	0.010	mg/l		EPA 6010B	6/2/10 0:33
	Barium	0.000280	0.010	mg/l		EPA 6010B	6/2/10 0:33
	Beryllium	0.0000920	0.0040	mg/l		EPA 6010B	6/2/10 0:33
	Cadmium	0.0000811	0.0050	mg/l		EPA 6010B	6/2/10 0:33
	Chromium	0.000866	0.0050	mg/l		EPA 6010B	6/2/10 0:33
	Cobalt	-0.0000320	0.010	mg/l		EPA 6010B	6/2/10 0:33
	Copper	-0.000563	0.010	mg/l		EPA 6010B	6/2/10 0:33
	Lead	-0.0000269	0.0050	mg/l		EPA 6010B	6/2/10 0:33
	Nickel	0.000899	0.010	mg/l		EPA 6010B	6/2/10 0:33
	Selenium	0.00198	0.010	mg/l		EPA 6010B	6/2/10 0:33
	Silver	-0.0000554	0.010	mg/l		EPA 6010B	6/2/10 0:33
	Thallium	0.000322	0.010	mg/l		EPA 6010B	6/2/10 0:33
	Vanadium	0.000353	0.010	mg/l		EPA 6010B	6/2/10 0:33
	Zinc	0.000757	0.020	mg/l		EPA 6010B	6/2/10 0:33
T000424-CCBF	Antimony	0.0102	0.010	mg/l	*	EPA 6010B	6/2/10 1:07
	Arsenic	-0.000589	0.010	mg/l		EPA 6010B	6/2/10 1:07
	Barium	0.000273	0.010	mg/l		EPA 6010B	6/2/10 1:07
	Beryllium	0.000186	0.0040	mg/l		EPA 6010B	6/2/10 1:07
	Cadmium	0.000122	0.0050	mg/l		EPA 6010B	6/2/10 1:07
	Chromium	0.000860	0.0050	mg/l		EPA 6010B	6/2/10 1:07
	Cobalt	-0.0000467	0.010	mg/l		EPA 6010B	6/2/10 1:07
	Copper	-0.000774	0.010	mg/l		EPA 6010B	6/2/10 1:07
	Lead	-0.000211	0.0050	mg/l		EPA 6010B	6/2/10 1:07

BLANKS
EPA 6010B

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle

Instrument ID: ICP5 Project: ERM-West Sacramento

Sequence: T000424 Calibration: I10F028

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
T000424-CCBF	Nickel	0.00105	0.010	mg/l		EPA 6010B	6/2/10 1:07
	Selenium	-0.000785	0.010	mg/l		EPA 6010B	6/2/10 1:07
	Silver	0.000776	0.010	mg/l		EPA 6010B	6/2/10 1:07
	Thallium	-0.000529	0.010	mg/l		EPA 6010B	6/2/10 1:07
	Vanadium	0.0000826	0.010	mg/l		EPA 6010B	6/2/10 1:07
	Zinc	0.000616	0.020	mg/l		EPA 6010B	6/2/10 1:07
T000424-CCBG	Antimony	0.0111	0.010	mg/l	*	EPA 6010B	6/2/10 1:41
	Arsenic	0.000307	0.010	mg/l		EPA 6010B	6/2/10 1:41
	Barium	0.000252	0.010	mg/l		EPA 6010B	6/2/10 1:41
	Beryllium	0.000150	0.0040	mg/l		EPA 6010B	6/2/10 1:41
	Cadmium	0.0000933	0.0050	mg/l		EPA 6010B	6/2/10 1:41
	Chromium	0.000833	0.0050	mg/l		EPA 6010B	6/2/10 1:41
	Cobalt	0.0000939	0.010	mg/l		EPA 6010B	6/2/10 1:41
	Copper	-0.000972	0.010	mg/l		EPA 6010B	6/2/10 1:41
	Lead	-0.000500	0.0050	mg/l		EPA 6010B	6/2/10 1:41
	Nickel	0.00106	0.010	mg/l		EPA 6010B	6/2/10 1:41
	Selenium	0.00465	0.010	mg/l		EPA 6010B	6/2/10 1:41
	Silver	0.000650	0.010	mg/l		EPA 6010B	6/2/10 1:41
	Thallium	0.000461	0.010	mg/l		EPA 6010B	6/2/10 1:41
	Vanadium	0.000229	0.010	mg/l		EPA 6010B	6/2/10 1:41
	Zinc	0.000532	0.020	mg/l		EPA 6010B	6/2/10 1:41
T000424-CCBH	Antimony	0.0121	0.010	mg/l	*	EPA 6010B	6/2/10 2:16
	Arsenic	-0.000653	0.010	mg/l		EPA 6010B	6/2/10 2:16
	Barium	0.000250	0.010	mg/l		EPA 6010B	6/2/10 2:16
	Beryllium	0.000280	0.0040	mg/l		EPA 6010B	6/2/10 2:16
	Cadmium	0.000116	0.0050	mg/l		EPA 6010B	6/2/10 2:16
	Chromium	0.000844	0.0050	mg/l		EPA 6010B	6/2/10 2:16
	Cobalt	-0.0000644	0.010	mg/l		EPA 6010B	6/2/10 2:16
	Copper	-0.000958	0.010	mg/l		EPA 6010B	6/2/10 2:16
	Lead	-0.000586	0.0050	mg/l		EPA 6010B	6/2/10 2:16
	Nickel	0.00109	0.010	mg/l		EPA 6010B	6/2/10 2:16
	Selenium	-0.000619	0.010	mg/l		EPA 6010B	6/2/10 2:16
	Silver	0.00120	0.010	mg/l		EPA 6010B	6/2/10 2:16
	Thallium	0.00159	0.010	mg/l		EPA 6010B	6/2/10 2:16
	Vanadium	0.000654	0.010	mg/l		EPA 6010B	6/2/10 2:16
	Zinc	0.000320	0.020	mg/l		EPA 6010B	6/2/10 2:16
T000424-CCBI	Antimony	0.0122	0.010	mg/l	*	EPA 6010B	6/2/10 2:50
	Arsenic	-0.000284	0.010	mg/l		EPA 6010B	6/2/10 2:50
	Barium	0.000264	0.010	mg/l		EPA 6010B	6/2/10 2:50
	Beryllium	0.000253	0.0040	mg/l		EPA 6010B	6/2/10 2:50
	Cadmium	0.0000993	0.0050	mg/l		EPA 6010B	6/2/10 2:50
	Chromium	0.000956	0.0050	mg/l		EPA 6010B	6/2/10 2:50
	Cobalt	-7.42E-6	0.010	mg/l		EPA 6010B	6/2/10 2:50
	Copper	-0.00146	0.010	mg/l		EPA 6010B	6/2/10 2:50
	Lead	-0.000298	0.0050	mg/l		EPA 6010B	6/2/10 2:50

BLANKS
EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Instrument ID: ICP5
Project: ERM-West Sacramento
Sequence: T000424
Calibration: I10F028

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
T000424-CCBI	Nickel	0.000957	0.010	mg/l		EPA 6010B	6/2/10 2:50
	Selenium	-0.00106	0.010	mg/l		EPA 6010B	6/2/10 2:50
	Silver	0.00185	0.010	mg/l		EPA 6010B	6/2/10 2:50
	Thallium	0.00124	0.010	mg/l		EPA 6010B	6/2/10 2:50
	Vanadium	0.000553	0.010	mg/l		EPA 6010B	6/2/10 2:50
	Zinc	0.000203	0.020	mg/l		EPA 6010B	6/2/10 2:50

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA 6010B METALS
Preparation Blank Summary

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 www.testamericainc.com

Form 1
METHOD BLANK DATA SHEET
STLC-Met

Laboratory:	TestAmerica Irvine		SDG:		
Client:	TestAmerica Seattle		Project:	ERM-West Sacramento	
Matrix:	Soil	Laboratory ID:	10E3670-BLK1	File ID:	
Prepared:	05/27/10 13:00	Preparation:	STLC - Met	Initial/Final:	50 g / 500 ml
Analyzed:	05/29/10 12:00	Instrument:	Inst		
Batch:	10E3670	Sequence:		Calibration:	

CAS NO.	COMPOUND	CONC. (N/A)	Q
Extract	Extraction	1.0	U

Form 1
METHOD BLANK DATA SHEET
EPA 6010B

Laboratory:	TestAmerica Irvine		SDG:		
Client:	TestAmerica Seattle		Project:	ERM-West Sacramento	
Matrix:	Solid	Laboratory ID:	10F0084-BLK1	File ID:	100601-2-044
Prepared:	06/01/10 10:20	Preparation:	Filtration-Metals	Initial/Final:	0.5 ml / 10 ml
Analyzed:	06/01/10 17:38	Instrument:	ICP5		
Batch:	10F0084	Sequence:	T000424	Calibration:	I10F028

CAS NO.	COMPOUND	CONC. (mg/l)	Q
7429-90-5	Aluminum	1.0	U
7440-36-0	Antimony	0.20	U
7440-38-2	Arsenic	0.20	U
7440-39-3	Barium	0.20	U
7440-41-7	Beryllium	0.080	U
7440-43-9	Cadmium	0.10	U
7440-70-2	Calcium	2.0	U
7440-47-3	Chromium	0.10	U
7440-48-4	Cobalt	0.20	U
7440-50-8	Copper	0.20	U
7439-89-6	Iron	0.80	U
7439-92-1	Lead	0.10	U
7439-95-4	Magnesium	0.40	U
7439-96-5	Manganese	0.40	U
7440-02-0	Nickel	0.20	U
7440-09-7	Potassium	16.6	B
7782-49-2	Selenium	0.20	U
7440-22-4	Silver	0.20	U
7440-28-0	Thallium	0.20	U
7440-62-2	Vanadium	0.20	U
7440-66-6	Zinc	0.40	U

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA 6010B METALS
Interference Check Summary

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 **www.testamericainc.com**

Form 4

ICP INTERFERENCE CHECK SAMPLE

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Project: ERM-West Sacramento
Instrument ID: ICP5
Calibration: I10F028
Sequence: T000424
Check Nbr: 1
Analyzed: 6/1/10 15:38

		True		Found				
Analyte	Units	Sol A	Sol B	Sol A	%R	Sol B	%R	Limit
Antimony	mg/l	NA	0.500		NA	0.463	93	80 - 120
Arsenic	mg/l	NA	0.500		NA	0.486	97	80 - 120
Barium	mg/l	NA	0.500		NA	0.475	95	80 - 120
Beryllium	mg/l	NA	0.500		NA	0.482	96	80 - 120
Cadmium	mg/l	NA	0.500		NA	0.456	91	80 - 120
Chromium	mg/l	NA	0.500		NA	0.469	94	80 - 120
Cobalt	mg/l	NA	0.500		NA	0.443	89	80 - 120
Copper	mg/l	NA	0.500		NA	0.515	103	80 - 120
Lead	mg/l	NA	0.500		NA	0.455	91	80 - 120
Nickel	mg/l	NA	0.500		NA	0.433	87	80 - 120
Selenium	mg/l	NA	0.500		NA	0.453	91	80 - 120
Silver	mg/l	NA	0.250		NA	0.243	97	80 - 120
Thallium	mg/l	NA	0.500		NA	0.429	86	80 - 120
Vanadium	mg/l	NA	0.500		NA	0.488	98	80 - 120
Zinc	mg/l	NA	0.500		NA	0.472	94	80 - 120

Form 4

ICP INTERFERENCE CHECK SAMPLE

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Project: ERM-West Sacramento
Instrument ID: ICP5
Calibration: I10F028
Sequence: T000424
Check Nbr: 2
Analyzed: 6/1/10 15:49

		True		Found				
Analyte	Units	Sol A	Sol B	Sol A	%R	Sol B	%R	Limit
Antimony	mg/l	NA	NA	-0.00776	NA		NA	0 - 200
Arsenic	mg/l	NA	NA	-0.00510	NA		NA	0 - 200
Barium	mg/l	NA	NA	0.00453	NA		NA	0 - 200
Beryllium	mg/l	NA	NA	-0.000242	NA		NA	0 - 200
Cadmium	mg/l	NA	NA	0.00448	NA		NA	0 - 200
Chromium	mg/l	NA	NA	-0.00354	NA		NA	0 - 200
Cobalt	mg/l	NA	NA	0.000968	NA		NA	0 - 200
Copper	mg/l	NA	NA	0.00216	NA		NA	0 - 200
Lead	mg/l	NA	NA	0.00156	NA		NA	0 - 200
Nickel	mg/l	NA	NA	-0.00811	NA		NA	0 - 200
Selenium	mg/l	NA	NA	-0.00362	NA		NA	0 - 200
Silver	mg/l	NA	NA	-0.0150	NA		NA	0 - 200
Thallium	mg/l	NA	NA	-0.00320	NA		NA	0 - 200
Vanadium	mg/l	NA	NA	-0.00382	NA		NA	0 - 200
Zinc	mg/l	NA	NA	0.00452	NA		NA	0 - 200

* Values outside of QC limits

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA 6010B METALS
MS/MSD Summary

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 www.testamericainc.com

Form 3

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 6010B

02CMSB

Laboratory:	TestAmerica Irvine	SDG:	
Client:	TestAmerica Seattle	Project:	ERM-West Sacramento
Matrix:	Solid	Spike standard:	IT01600
Batch:	10F0084	Laboratory ID:	10F0084-MS1
Preparation:	Filtration-Metals	Initial/Final:	0.5 ml / 10 ml

Source Sample Name: 02CMSB

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Aluminum	20.0	17.1	37.0	99	75 - 125
Antimony	20.0	ND	20.2	101	75 - 125
Arsenic	20.0	ND	20.8	104	75 - 125
Barium	20.0	6.97	26.7	99	75 - 125
Beryllium	20.0	ND	20.1	101	75 - 125
Cadmium	20.0	ND	19.7	99	75 - 125
Calcium	20.0	93.7	115	106	75 - 125
Chromium	20.0	0.938	21.0	100	75 - 125
Cobalt	20.0	1.45	21.0	98	75 - 125
Copper	20.0	0.223	20.5	102	75 - 125
Iron	20.0	92.8	114	108	75 - 125
Lead	20.0	ND	19.5	97	75 - 125
Magnesium	20.0	220	238	89	75 - 125
Manganese	20.0	24.4	43.9	98	75 - 125
Nickel	20.0	4.52	23.9	97	75 - 125
Potassium	200	17.7	236	109	75 - 125
Selenium	20.0	ND	19.9	100	75 - 125
Silver	10.0	ND	10.5	105	75 - 125
Thallium	20.0	ND	18.4	92	75 - 125
Vanadium	20.0	0.286	20.8	103	75 - 125
Zinc	20.0	0.304	19.8	97	75 - 125

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aluminum	20.0	37.0	100	0.1	20	75 - 125
Antimony	20.0	20.8	104	3	20	75 - 125
Arsenic	20.0	21.2	106	2	20	75 - 125
Barium	20.0	26.7	99	0.1	20	75 - 125
Beryllium	20.0	20.0	100	0.5	20	75 - 125
Cadmium	20.0	19.6	98	0.5	20	75 - 125
Calcium	20.0	116	110	0.6	20	75 - 125

Form 3

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA 6010B

02CMSB

Laboratory:	TestAmerica Irvine	SDG:	
Client:	TestAmerica Seattle	Project:	ERM-West Sacramento
Matrix:	Solid	Spike standard:	IT01600
Batch:	10F0084	Laboratory ID:	10F0084-MSD1
Preparation:	Filtration-Metals	Initial/Final:	0.5 ml / 10 ml

Source Sample Name: 02CMSB

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chromium	20.0	21.0	100	0.3	20	75 - 125
Cobalt	20.0	21.0	98	0.2	20	75 - 125
Copper	20.0	20.7	102	0.6	20	75 - 125
Iron	20.0	115	112	0.7	20	75 - 125
Lead	20.0	19.9	100	2	20	75 - 125
Magnesium	20.0	238	89	0.03	20	75 - 125
Manganese	20.0	44.2	99	0.7	20	75 - 125
Nickel	20.0	24.0	97	0.3	20	75 - 125
Potassium	200	228	105	3	20	75 - 125
Selenium	20.0	20.4	102	2	20	75 - 125
Silver	10.0	10.5	105	0.4	20	75 - 125
Thallium	20.0	18.7	94	2	20	75 - 125
Vanadium	20.0	21.0	104	0.8	20	75 - 125
Zinc	20.0	19.7	97	0.1	20	75 - 125

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA 6010B METALS
LCS Summary

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 www.testamericainc.com

Form 3
LCS / LCS DUPLICATE RECOVERY
EPA 6010B

Laboratory:	TestAmerica Irvine	SDG:	
Client:	TestAmerica Seattle	Project:	ERM-West Sacramento
Matrix:	Solid	Spike standard:	IT01600
Batch:	10F0084	Laboratory ID:	10F0084-BS1
Preparation:	Filtration-Metals	Initial/Final:	0.5 ml / 10 ml

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Aluminum	20.0	19.9	100	80 - 120
Antimony	20.0	20.7	104	80 - 120
Arsenic	20.0	21.4	107	80 - 120
Barium	20.0	19.8	99	80 - 120
Beryllium	20.0	20.1	101	80 - 120
Cadmium	20.0	20.1	100	80 - 120
Calcium	20.0	20.8	104	80 - 120
Chromium	20.0	20.5	102	80 - 120
Cobalt	20.0	19.9	99	80 - 120
Copper	20.0	20.7	104	80 - 120
Iron	20.0	20.0	100	80 - 120
Lead	20.0	20.0	100	80 - 120
Magnesium	20.0	19.8	99	80 - 120
Manganese	20.0	19.7	99	80 - 120
Nickel	20.0	19.8	99	80 - 120
Potassium	200	229	115	80 - 120
Selenium	20.0	20.7	104	80 - 120
Silver	10.0	10.6	106	80 - 120
Thallium	20.0	18.8	94	80 - 120
Vanadium	20.0	21.0	105	80 - 120
Zinc	20.0	19.8	99	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA 6010B METALS
SPLP, STLC, and/or TCLP Preparation Log

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 www.testamericainc.com

Form 4

PREPARATION BATCH SUMMARY

STLC-Met

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Batch: 10E3670 Batch Matrix: Soil Preparation: STLC - Met

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	10E3670-BLK1		05/27/10 13:00	
02CMSB	ITE2408-01		05/27/10 13:00	
04CMSB	ITE2408-02		05/27/10 13:00	
06CMSB	ITE2408-03		05/27/10 13:00	
02SMSB	ITE2408-04		05/27/10 13:00	
05SMSB-B	ITE2408-05		05/27/10 13:00	
08SMSB	ITE2408-06		05/27/10 13:00	
02HMSB	ITE2408-07		05/27/10 13:00	
05HMSB	ITE2408-08		05/27/10 13:00	
08HMSB	ITE2408-09		05/27/10 13:00	
09SMMW	ITE2408-10		05/27/10 13:00	

10E3670 * CH

WET (STLC) EXTRACTION LOG

TITLE 22, SECTION 66261, APPENDIX II

Room Temp Max/Min(°C): 22-24°C

Rotator Speed (RPM): 31RPM

Analyst Name: EN

☐ Semi-Volatiles ☒ Metals

Extraction Fluid #	pH	ID#
STLC	5.00	ITE15

Rotation Time (date/time)

Start: 05/27/10 13:0

Stop: 5-29-10 12:0

Filtration Start: //

Sample ID	Container #	% Solids Determination *	Initial pH	pH after acid/heating	Extraction Fluid #	Volume Extraction Fluid (mL)	Sample Amount (g)	Extract Volume (mL)	Final pH	Comments
Blank	/	/	/	/	STLC	500	50			
ITE2408-01		100%								Cam
-02										
-03										
-04										
-05										
-06										
-07										
-08										
-09										
-10										
ITE1042-04										Pb
-05										
-06										
ITE892-02									BP	As Pb
06									BP	Pb

*Yes/No. If "Yes" see %Solids worksheet.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA 6010B METALS
Sample Digestion Log

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 www.testamericainc.com

Form 4

PREPARATION BATCH SUMMARY

EPA 6010B

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Batch: 10F0084 Batch Matrix: Solid Preparation: Filtration-Metals

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	10F0084-BLK1	100601-2-044	06/01/10 10:20	
LCS	10F0084-BS1	100601-2-045	06/01/10 10:20	
02CMSB	10F0084-MS1	100601-2-047	06/01/10 10:20	
02CMSB	10F0084-MSD1	100601-2-048	06/01/10 10:20	
02CMSB	ITE2408-01	100601-2-046	06/01/10 10:20	J Flag
04CMSB	ITE2408-02	100601-2-054	06/01/10 10:20	J Flag
06CMSB	ITE2408-03	100601-2-055	06/01/10 10:20	J Flag
02SMSB	ITE2408-04	100601-2-056	06/01/10 10:20	J Flag
05SMSB-B	ITE2408-05	100601-2-057	06/01/10 10:20	J Flag
08SMSB	ITE2408-06	100601-2-058	06/01/10 10:20	J Flag
02HMSB	ITE2408-07	100601-2-059	06/01/10 10:20	J Flag
05HMSB	ITE2408-08	100601-2-060	06/01/10 10:20	J Flag
08HMSB	ITE2408-09	100601-2-061	06/01/10 10:20	J Flag
09SMMW	ITE2408-10	100601-2-065	06/01/10 10:20	J Flag

Metals Prep Report

PREPARATION BENCH SHEET

10F0084

Matrix: Solid

TestAmerica Irvine

Prepared using: Metals - Filtration-Metals

Printed: 6/1/2010 10:25:07AM

Lab Number and bottle	Prepared	Prep By	Due Date	Initial (ml)	Final (ml)	Spike 1	ul Spike 1	Spike 2	ul Spike 2	Source ID	pH	Turbidity	Comments
10F0084-BLK1	06/01/10 10:20	LL		0.5	10								
10F0084-BS1	06/01/10 10:20	LL		0.5	10	IT01600	100						
10F0084-MS1	06/01/10 10:20	LL		0.5	10	IT01600	100			ITE2408-01			
10F0084-MSD1	06/01/10 10:20	LL		0.5	10	IT01600	100			ITE2408-01			
1 ITE0892-02 A	06/01/10 10:20	LL	06/03/10 12:00	0.5	10								Add-in 5/27/10. STLC As, Pb. | Add-in 5/27/10. STLC As, Pb.
Arsenic-6010B-STLC	Lead-6010B-STLC												
2 ITE0892-06 A	06/01/10 10:20	LL	06/03/10 12:00	0.5	10								Add-in 5/27/10. STLC Pb. | Add-in 5/27/10. STLC Pb.
Lead-6010B-STLC													
3 ITE1042-04 A	06/01/10 10:20	LL	06/03/10 12:00	0.5	10								Add-in 5/27/10. STLC Pb. | Add-in 5/27/10. STLC Pb.
Lead-6010B-STLC													
4 ITE1042-05 A	06/01/10 10:20	LL	06/03/10 12:00	0.5	10								Add-in 5/27/10. STLC Pb. | Add-in 5/27/10. STLC Pb.
Lead-6010B-STLC													
5 ITE1042-06 A	06/01/10 10:20	LL	06/03/10 12:00	0.5	10								Add-in 5/27/10. STLC Pb. | Add-in 5/27/10. STLC Pb.
Lead-6010B-STLC													
6 ITE2408-01 A	06/01/10 10:20	LL	06/02/10 12:00	0.5	10								J Flag | J Flag
Copper-6010B-STLC	Iron-6010B-STLC		Thallium-6010B-STLC			Silver-6010B-STLC		Selenium-6010B-STLC		Potassium-6010B-STLC			
Nickel-6010B-STLC	Manganese-6010B-STLC		Magnesium-6010B-STLC			Vanadium-6010B-STLC		Antimony-6010B-STLC		Lead-6010B-STLC			
Aluminum-6010B-STLC	Zinc-6010B-STLC		Arsenic-6010B-STLC			Barium-6010B,STLC		Beryllium-6010B-STLC		Cadmium-6010B,STLC			
Calcium-6010B-STLC	Chromium-6010B-STLC		Cobalt-6010B-STLC										
7 ITE2408-02 A	06/01/10 10:20	LL	06/02/10 12:00	0.5	10								J Flag | J Flag
Lead-6010B-STLC	Vanadium-6010B-STLC		Thallium-6010B-STLC			Silver-6010B-STLC		Selenium-6010B-STLC		Potassium-6010B-STLC			
Nickel-6010B-STLC	Manganese-6010B-STLC		Magnesium-6010B-STLC			Zinc-6010B-STLC		Barium-6010B,STLC		Antimony-6010B-STLC			

Prepared By Date

DP 6/01/10

Preparation Reviewed By Date

Metals Prep Report

PREPARATION BENCH SHEET

10F0084

Matrix: Solid

TestAmerica Irvine

Prepared using: Metals - Filtration-Metals

Printed: 6/1/2010 10:25:07AM

Lab Number and bottle	Prepared	Prep By	Due Date	Initial (ml)	Final (ml)	Spike 1	ul Spike 1	Spike 2	ul Spike 2	Source ID	pH	Turbidity	Comments
Iron-6010B-STLC	Arsenic-6010B-STLC		Aluminum-6010B-STLC			Beryllium-6010B-STLC			Cadmium-6010B,STLC			Calcium-6010B-STLC	
Chromium-6010B-STLC	Cobalt-6010B-STLC		Copper-6010B-STLC										
8 ITE2408-03 A	06/01/10 10:20	LL	06/02/10 12:00	0.5	10							J Flag | J Flag	
Selenium-6010B-STLC	Manganese-6010B-STLC		Nickel-6010B-STLC			Potassium-6010B-STLC			Magnesium-6010B-STLC			Silver-6010B-STLC	
Thallium-6010B-STLC	Vanadium-6010B-STLC		Arsenic-6010B-STLC			Lead-6010B-STLC			Zinc-6010B-STLC			Antimony-6010B-STLC	
Copper-6010B-STLC	Cobalt-6010B-STLC		Chromium-6010B-STLC			Calcium-6010B-STLC			Cadmium-6010B,STLC			Aluminum-6010B-STLC	
Barium-6010B,STLC	Iron-6010B-STLC		Beryllium-6010B-STLC										
9 ITE2408-04 A	06/01/10 10:20	LL	06/02/10 12:00	0.5	10							J Flag | J Flag	
Lead-6010B-STLC	Manganese-6010B-STLC		Potassium-6010B-STLC			Selenium-6010B-STLC			Silver-6010B-STLC			Iron-6010B-STLC	
Vanadium-6010B-STLC	Magnesium-6010B-STLC		Zinc-6010B-STLC			Thallium-6010B-STLC			Antimony-6010B-STLC			Nickel-6010B-STLC	
Copper-6010B-STLC	Aluminum-6010B-STLC		Arsenic-6010B-STLC			Barium-6010B,STLC			Beryllium-6010B-STLC			Cadmium-6010B,STLC	
Calcium-6010B-STLC	Chromium-6010B-STLC		Cobalt-6010B-STLC										
10 ITE2408-05 A	06/01/10 10:20	LL	06/02/10 12:00	0.5	10							J Flag | J Flag	
Antimony-6010B-STLC	Cobalt-6010B-STLC		Manganese-6010B-STLC			Magnesium-6010B-STLC			Lead-6010B-STLC			Iron-6010B-STLC	
Copper-6010B-STLC	Potassium-6010B-STLC		Chromium-6010B-STLC			Calcium-6010B-STLC			Cadmium-6010B,STLC			Beryllium-6010B-STLC	
Arsenic-6010B-STLC	Aluminum-6010B-STLC		Selenium-6010B-STLC			Barium-6010B,STLC			Silver-6010B-STLC			Thallium-6010B-STLC	
Vanadium-6010B-STLC	Zinc-6010B-STLC		Nickel-6010B-STLC										
11 ITE2408-06 A	06/01/10 10:20	LL	06/02/10 12:00	0.5	10							J Flag | J Flag	
Magnesium-6010B-STLC	Zinc-6010B-STLC		Vanadium-6010B-STLC			Thallium-6010B-STLC			Silver-6010B-STLC			Selenium-6010B-STLC	
Potassium-6010B-STLC	Manganese-6010B-STLC		Lead-6010B-STLC			Iron-6010B-STLC			Antimony-6010B-STLC			Nickel-6010B-STLC	
Aluminum-6010B-STLC	Copper-6010B-STLC		Arsenic-6010B-STLC			Barium-6010B,STLC			Beryllium-6010B-STLC			Cadmium-6010B,STLC	
Calcium-6010B-STLC	Chromium-6010B-STLC		Cobalt-6010B-STLC										
12 ITE2408-07 A	06/01/10 10:20	LL	06/02/10 12:00	0.5	10							J Flag | J Flag	

Prepared By _____ Date _____

Preparation Reviewed By _____ Date _____

Metals Prep Report

PREPARATION BENCH SHEET

10F0084

Matrix: Solid

TestAmerica Irvine

Prepared using: Metals - Filtration-Metals

Printed: 6/1/2010 10:25:07AM

Lab Number and bottle	Prepared	Prep By	Due Date	Initial (ml)	Final (ml)	Spike 1	ul Spike 1	Spike 2	ul Spike 2	Source ID	pH	Turbidity	Comments
Lead-6010B-STLC	Arsenic-6010B-STLC		Vanadium-6010B-STLC			Thallium-6010B-STLC			Silver-6010B-STLC			Selenium-6010B-STLC	
Potassium-6010B-STLC	Nickel-6010B-STLC		Manganese-6010B-STLC			Magnesium-6010B-STLC			Zinc-6010B-STLC			Antimony-6010B-STLC	
Copper-6010B-STLC	Cobalt-6010B-STLC		Chromium-6010B-STLC			Calcium-6010B-STLC			Cadmium-6010B,STLC			Aluminum-6010B-STLC	
Barium-6010B,STLC	Iron-6010B-STLC		Beryllium-6010B-STLC										
13 ITE2408-08 A	06/01/10 10:20	LL	06/02/10 12:00	0.5	10							J Flag | J Flag	
Magnesium-6010B-STLC	Manganese-6010B-STLC		Nickel-6010B-STLC			Potassium-6010B-STLC			Selenium-6010B-STLC			Silver-6010B-STLC	
Thallium-6010B-STLC	Zinc-6010B-STLC		Chromium-6010B-STLC			Lead-6010B-STLC			Vanadium-6010B-STLC			Aluminum-6010B-STLC	
Cobalt-6010B-STLC	Calcium-6010B-STLC		Cadmium-6010B,STLC			Beryllium-6010B-STLC			Barium-6010B,STLC			Arsenic-6010B-STLC	
Antimony-6010B-STLC	Copper-6010B-STLC		Iron-6010B-STLC										
14 ITE2408-09 A	06/01/10 10:20	LL	06/02/10 12:00	0.5	10							J Flag | J Flag	
Lead-6010B-STLC	Magnesium-6010B-STLC		Manganese-6010B-STLC			Nickel-6010B-STLC			Selenium-6010B-STLC			Iron-6010B-STLC	
Vanadium-6010B-STLC	Potassium-6010B-STLC		Zinc-6010B-STLC			Thallium-6010B-STLC			Aluminum-6010B-STLC			Cobalt-6010B-STLC	
Chromium-6010B-STLC	Calcium-6010B-STLC		Cadmium-6010B,STLC			Beryllium-6010B-STLC			Barium-6010B,STLC			Arsenic-6010B-STLC	
Antimony-6010B-STLC	Silver-6010B-STLC		Copper-6010B-STLC										
15 ITE2408-10 A	06/01/10 10:20	LL	06/02/10 12:00	0.5	10							J Flag | J Flag	
Magnesium-6010B-STLC	Manganese-6010B-STLC		Nickel-6010B-STLC			Potassium-6010B-STLC			Selenium-6010B-STLC			Silver-6010B-STLC	
Lead-6010B-STLC	Vanadium-6010B-STLC		Beryllium-6010B-STLC			Thallium-6010B-STLC			Iron-6010B-STLC			Copper-6010B-STLC	
Cobalt-6010B-STLC	Chromium-6010B-STLC		Cadmium-6010B,STLC			Barium-6010B,STLC			Arsenic-6010B-STLC			Antimony-6010B-STLC	
Aluminum-6010B-STLC	Zinc-6010B-STLC		Calcium-6010B-STLC										

Prepared By Date

Preparation Reviewed By Date

Metals Prep Report

PREPARATION BENCH SHEET

10F0084

Matrix: Solid

TestAmerica Irvine

Printed: 6/1/2010 10:25:07AM

Prepared using: Metals - Filtration-Metals

Lab Number and bottle	Prepared	Prep By	Due Date	Initial (ml)	Final (ml)	Spike 1	ul Spike 1	Spike 2	ul Spike 2	Source ID	pH	Turbidity	Comments

Standard(s):	Description	Amount
IT01600	ACCU CAL.STD FOR ICP.A&B Metals Standard	100 uL

Step	Initials	Time
Initial Volume	DP	
Spike	DP	
Initial Acid +/ Reagent	N/A	
Second Acid +/ Reagent	N/A	
Additional Acids +/ Reagents	N/A	
Final Volume	DP	

DP 6/1/10

Prepared By Date

Preparation Reviewed By Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA 6010B METALS
Analytical Sequence Form

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 tel 949.261.1022 fax 949.260.3297 www.testamericainc.com

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Project: ERM-West Sacramento
Sequence: T000424
Instrument: ICP5
Calibration: I10F028

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	T000424-CAL1	100601-2-001	06/01/10 15:19
Cal Standard	T000424-CAL2	100601-2-002	06/01/10 15:22
Cal Standard	T000424-CAL3	100601-2-003	06/01/10 15:24
Cal Standard	T000424-CAL4	100601-2-004	06/01/10 15:27
Initial Cal Check	T000424-ICV1	100601-2-005	06/01/10 15:33
Initial Cal Blank	T000424-ICB1	100601-2-006	06/01/10 15:36
Interference Check B	T000424-IFB1	100601-2-007	06/01/10 15:38
Interference Check A	T000424-IFA2	100601-2-009	06/01/10 15:49
Instrument RL Check	T000424-CRL1	100601-2-011	06/01/10 15:55
Instrument RL Check	T000424-CRL2	100601-2-012	06/01/10 15:58
Instrument RL Check	T000424-CRL3	100601-2-013	06/01/10 16:00
Initial Cal Blank	T000424-ICB2	100601-2-015	06/01/10 16:06
Calibration Check	T000424-CCV1	100601-2-026	06/01/10 16:44
Calibration Blank	T000424-CCB1	100601-2-027	06/01/10 16:47
Calibration Check	T000424-CCV2	100601-2-038	06/01/10 17:21
Calibration Blank	T000424-CCB2	100601-2-039	06/01/10 17:24
Blank	10F0084-BLK1	100601-2-044	06/01/10 17:38
LCS	10F0084-BS1	100601-2-045	06/01/10 17:41
02CMSB	ITE2408-01	100601-2-046	06/01/10 17:44
02CMSB	10F0084-MS1	100601-2-047	06/01/10 17:46
02CMSB	10F0084-MSD1	100601-2-048	06/01/10 17:49
Calibration Check	T000424-CCV3	100601-2-050	06/01/10 17:55
Calibration Blank	T000424-CCB3	100601-2-051	06/01/10 17:58
04CMSB	ITE2408-02	100601-2-054	06/01/10 18:11
06CMSB	ITE2408-03	100601-2-055	06/01/10 18:14
02SMSB	ITE2408-04	100601-2-056	06/01/10 18:17
05SMSB-B	ITE2408-05	100601-2-057	06/01/10 18:20
08SMSB	ITE2408-06	100601-2-058	06/01/10 18:23
02HMSB	ITE2408-07	100601-2-059	06/01/10 18:26
05HMSB	ITE2408-08	100601-2-060	06/01/10 18:29
08HMSB	ITE2408-09	100601-2-061	06/01/10 18:31

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010B

Laboratory: TestAmerica Irvine
Client: TestAmerica Seattle
Sequence: T000424

SDG:
Project: ERM-West Sacramento
Instrument: ICP5
Calibration: I10F028

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	T000424-CCV4	100601-2-062	06/01/10 18:34
Calibration Blank	T000424-CCB4	100601-2-063	06/01/10 18:37
09SMMW	ITE2408-10	100601-2-065	06/01/10 18:46
Calibration Check	T000424-CCV5	100601-2-074	06/01/10 19:12
Calibration Blank	T000424-CCB5	100601-2-075	06/01/10 19:15
Calibration Check	T000424-CCV6	100601-2-086	06/01/10 20:21
Calibration Blank	T000424-CCB6	100601-2-087	06/01/10 20:23
Calibration Check	T000424-CCV7	100601-2-088	06/01/10 20:29
Calibration Blank	T000424-CCB7	100601-2-089	06/01/10 20:32
Calibration Check	T000424-CCV8	100601-2-100	06/01/10 21:05
Calibration Blank	T000424-CCB8	100601-2-101	06/01/10 21:08
Calibration Check	T000424-CCV9	100601-2-112	06/01/10 21:40
Calibration Blank	T000424-CCB9	100601-2-113	06/01/10 21:43
Calibration Check	T000424-CCVA	100601-2-124	06/01/10 22:14
Calibration Blank	T000424-CCBA	100601-2-125	06/01/10 22:17
Calibration Check	T000424-CCVB	100601-2-136	06/01/10 22:47
Calibration Blank	T000424-CCBB	100601-2-137	06/01/10 22:50
Calibration Check	T000424-CCVC	100601-2-148	06/01/10 23:21
Calibration Blank	T000424-CCBC	100601-2-149	06/01/10 23:24
Calibration Check	T000424-CCVD	100601-2-160	06/01/10 23:56
Calibration Blank	T000424-CCBD	100601-2-161	06/01/10 23:59
Calibration Check	T000424-CCVE	100601-2-172	06/02/10 00:30
Calibration Blank	T000424-CCBE	100601-2-173	06/02/10 00:33
Calibration Check	T000424-CCVF	100601-2-184	06/02/10 01:04
Calibration Blank	T000424-CCBF	100601-2-185	06/02/10 01:07
Calibration Check	T000424-CCVG	100601-2-196	06/02/10 01:38
Calibration Blank	T000424-CCBG	100601-2-197	06/02/10 01:41
Calibration Check	T000424-CCVH	100601-2-208	06/02/10 02:13
Calibration Blank	T000424-CCBH	100601-2-209	06/02/10 02:16
Calibration Check	T000424-CCVI	100601-2-220	06/02/10 02:47
Calibration Blank	T000424-CCBI	100601-2-221	06/02/10 02:50

Sample Information Detail Report
Document Name: 100601-2

File Description
6010/200.7 ICP5 100529MECAL

Parameters Common to All Samples

Batch ID	
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Batch ID	Analysis Requested
1	1	Calib Blank 1	0.00 PPB	100601MECAL
2	2	Calib Std 1	0.005PPM	100601MECAL
3	3	Calib Std 2	0.1PPM	100601MECAL
4	4	Calib Std 3	1.0PPM	100601MECAL
5	7	SEQUENCE-ICV1 Co, Li ↓ 200 7 rerun Co		SMART SOLN
6	1	~~SEQUENCE-ICB1~~		
7	9	SEQUENCE-IFB1 Li ↓		
8	10	~~SEQUENCE-IFA1~~		
9	11	SEQUENCE-IFA2		
10	1	RINSE		
11	2	SEQUENCE-CRL1		5.0 PPB
12	5	SEQUENCE-CRL2		10.0 PPB
13	6	SEQUENCE-CRL3 Si T		20.0 PPB
14	11	CO ICV Co passed		
15	1	SEQUENCE-ICB2		
16	233	~~10E3792-BLK1~~	10E3792	AG TCLP i.s. T
17	233	10E3792-BLK1	10E3792	AG TCLP
18	234	10E3792-BS1	10E3792	AG TCLP
19	235	ITE2604-01	10E3792	AG TCLP
20	236	10E3792-MS1	10E3792	AG TCLP
21	238	R ITE2415-01	10E3792	AG TCLP
22	237	ITE2591-01@5	10E3792	AG TCLP
23	12	ITE2825-04	10F0047	SE 200.7 redigest
24	13	ITE2825-05	10F0047	SE 200.7 ↓
25	14	ITE2827-04	10F0047	SE 200.7
26	4	SEQUENCE-CCV1		
27	1	SEQUENCE-CCB1 Sb T		
28	15	ITE2827-05	10F0047	SE 200.7 redigest
29	29	ITE2178-02	10E3871	P SOIL S
30	30	ITE2206-01	10E3871	CAM SOIL
31	31	ITE2206-02	10E3871	CAM SOIL
32	32	R ITE2330-01	10E3871	ASCDCRPB SOIL
33	33	ITE2330-02	10E3871	ASCDCRPB SOIL
34	34	ITE2330-03	10E3871	ASCDCRPB SOIL
35	35	ITE2330-04	10E3871	ASCDCRPB SOIL
36	36	ITE2351-01	10E3871	CAM SOIL
37	37	~~ITE2053-01~~	10E3871	CAM SOIL w/ Tlox
38	4	SEQUENCE-CCV2		

Seq: T0004424

39	1	SEQUENCE-CCB2		
40	37	~~ITE2653-01@10~~	10E3871	CAM SOIL I.S. T
41	38	ITE2654-01	10E3871	CAM SOIL
42	39	ITE2654-02	10E3871	CAM SOIL
43	40	ITE2654-03	10E3871	CAM SOIL
44	11	10F0084-BLK1	10F0084 KT	CAM STLC
45	12	10F0084-BS1	10F0084	CAM STLC
46	13	ITE2408-01	10F0084	CAM STLC
47	14	10F0084-MS1	10F0084	CAM STLC
48	15	10F0084-MSD1	10F0084	CAM STLC
49	16	ITE0892-02	10F0084	ASPB STLC
50	4	SEQUENCE-CCV3		
51	1	SEQUENCE-CCB3 Sb T		
52	17	ITE0892-06	10F0084	PB STLC
53	21	~~ITE2408-02~~	10F0084	CAM STLC
54	21	ITE2408-02	10F0084	CAM STLC
55	22	ITE2408-03	10F0084	CAM STLC
56	23	ITE2408-04	10F0084	CAM STLC
57	24	ITE2408-05	10F0084	CAM STLC
58	25	ITE2408-06	10F0084	CAM STLC
59	26	ITE2408-07	10F0084	CAM STLC
60	27	ITE2408-08	10F0084	CAM STLC
61	28	ITE2408-09	10F0084	CAM STLC
62	4	SEQUENCE-CCV4		
63	1	SEQUENCE-CCB4 Na, Sb T		
64	11	10F0084-BLK1	10F0084	K STLC
65	29	ITE2408-10	10F0084	CAM STLC
66	18	~~ITE1042-04~~	10F0084	PB STLC probe up
67	19	ITE1042-05	10F0084	PB STLC
68	20	ITE1042-06	10F0084	PB STLC
69	30	10F0128-BLK1	10F0128	SESN 200.7
70	31	10F0128-BS1	10F0128	SESN 200.7
71	32	~~ITF0020-01~~	10F0128	SESN 200.7 probe up
72	33	10F0128-MS1	10F0128	SESN 200.7
73	34	10F0128-MSD1	10F0128	SESN 200.7
74	4	SEQUENCE-CCV5 Al, Mg, Na T		
75	1	SEQUENCE-CCB5 Sb T		
76	35	~~ITE2601-01~~	10F0128	SN 200.7 probe up
77	31	ITF0020-01	10F0128	SESN 200.7
78	36	~~ITF0020-02~~	10F0128	SE 200.7 probe up
79	37	ITF0020-03	10F0128	SE 200.7
80	38	ITF0020-04	10F0128	SE 200.7
81	39	~~ITF0020-05~~	10F0128	SE 200.7 probe up
82	30	ITE1042-04	10F0084	PB STLC
83	35	ITE2601-01	10F0128	SN 200.7
84	36	ITF0020-02	10F0128	SE 200.7
85	39	ITF0020-05	10F0128	SE 200.7
86	4	~~SEQUENCE-CCV6~~		
87	1	~~SEQUENCE-CCB6~~		
88	4	SEQUENCE-CCV7		

89	1		SEQUENCE-CCB7 Sb T		
90	182		~~10E3624-BLK1~~	10E3624	CAFEKMGNA 200.7 CAD probe up
91	183		~~10E3624-BS1~~	10E3624	CAFEKMGNA 200.7 CAD
92	182		~~10E3624-BLK1~~	10E3624	CAFEKMGNA 200.7 CAD
93	183		10E3624-BS1	10E3624	CAFEKMGNA 200.7 CAD
94	184		ITE2322-03	10E3624	CAFEKMGNA 200.7 CAD
95	185		10E3624-MS1	10E3624	CAFEKMGNA 200.7 CAD
96	186	R	10E3624-MSD1	10E3624	CAFEKMGNA 200.7 CAD
97	187		ITE2322-05	10E3624	CAFEKMGNA 200.7 CAD
98	188		10E3624-MS2	10E3624	CAFEKMGNA 200.7 CAD
99	189		ITE2328-04	10E3624	FE 200.7 CADW
100	4		SEQUENCE-CCV8		
101	1		SEQUENCE-CCB8 Sb T		
102	182		10E3624-BLK1	10E3624	CAFEKMGNA 200.7 CAD
103	190		ITE2328-08	10E3624	FE 200.7 CADW
104	191		ITE2328-11	10E3624	FE 200.7 CADW
105	192		ITE2328-12	10E3624	FE 200.7 CADW
106	193		ITE2328-13	10E3624	FE 200.7 CADW
107	194	R	ITE2328-14	10E3624	FE 200.7 CADW
108	195		ITE2328-15	10E3624	FE 200.7 CADW
109	196		ITE2328-17	10E3624	FE 200.7 CADW
110	197		ITE2328-18	10E3624	FE 200.7 CADW
111	198		ITE2328-19	10E3624	FE 200.7 CADW
112	4		SEQUENCE-CCV9		
113	1		SEQUENCE-CCB9 Sb T		
114	199		ITE2358-01	10E3624	CAFEKMGNA 200.7 CAD
115	200		ITE2358-02	10E3624	CAFEKMGNA 200.7 CAD
116	201		ITE2358-03	10E3624	CAFEKMGNA 200.7 CAD
117	115		10F0050-BLK1	10F0050	CAM 200.7 Cu Cr Fe Si
118	116		10F0050-BS1	10F0050	CAM 200.7
119	117	R	ITE2687-01	10F0050	CAM 200.7
120	118		10F0050-MS1	10F0050	CAM 200.7
121	119		10F0050-MSD1	10F0050	CAM 200.7
122	120		ITE2724-01	10F0050	CAM 200.7
123	121		10F0050-MS2	10F0050	CAM 200.7
124	4		SEQUENCE-CCVA Ag Al Co Cr Fe % RSD T		
125	1		SEQUENCE-CCBA Sb T		
126	122		ITE2791-01	10F0050	CAM 200.7 ω
127	123		ITE2792-01	10F0050	CAM 200.7
128	124		10F0053-BLK1	10F0053	CAM WATER Na T Cr Co Fe Ag
129	125		10F0053-BS1	10F0053	CAM WATER
130	126		ITE2714-01	10F0053	CAM WATER
131	127	R	10F0053-MS1	10F0053	CAM WATER
132	128		10F0053-MSD1	10F0053	CAM WATER
133	129		ITE2714-02	10F0053	CAM WATER
134	147		10E3268-BLK1	10E3268	CAKMGNA WAT DIS SEQ Na T
135	148		10E3268-BS1	10E3268	CAKMGNA WAT DIS SEQ
136	4		SEQUENCE-CCVB		
137	1		SEQUENCE-CCBB Na Sb T		
138	149	R	ITE2091-16	10E3268	CAKMGNA WAT DIS SEQ

139	150	10E3268-MS1	10E3268	CAKMGNA WAT DIS SEQ
140	151	10E3268-MSD1	10E3268	CAKMGNA WAT DIS SEQ
141	152	ITE2091-01	10E3268	CAMG WATER DIS SEQ
142	153	ITE2091-02	10E3268	CAMG WATER DIS SEQ
143	154	ITE2091-03@10	10E3268	CAMG WATER DIS SEQ
144	155	ITE2091-04@10	10E3268	CAMG WATER DIS SEQ
145	156	ITE2091-05	10E3268	CAMG WATER DIS SEQ
146	157	ITE2091-06	10E3268	CAMG WATER DIS SEQ
147	158	ITE2091-07	10E3268	CAMG WATER DIS SEQ
148	4	SEQUENCE-CCVC		
149	1	SEQUENCE-CCBC Sb +		
150	159	ITE2091-08	10E3268	CAMG WATER DIS SEQ
151	160	ITE2091-09	10E3268	CAMG WATER DIS SEQ
152	161	ITE2091-10	10E3268	CAMG WATER DIS SEQ
153	162	ITE2091-11	10E3268	CAMG WATER DIS SEQ
154	163	ITE2091-12	10E3268	CAMG WATER DIS SEQ
155	164	~~ITE2091-13~~	10E3268	CAMG WATER DIS SEQ
156	165	~~ITE2091-14~~	10E3268	CAMG WATER DIS SEQ
157	166	ITE2091-15@10	10E3268	CAMG WATER DIS SEQ
158	167	ITE2147-01	10E3268	CAKMGNA WATER DISS
159	168	ITE2148-01	10E3268	CAKMGNA WATER DISS
160	4	SEQUENCE-CCVD As Mg Ca P Pb Sn +		
161	1	SEQUENCE-CCBD Ca Sb +		
162	169	10E3774-BLK1	10E3774	SR SOIL
163	170	10E3774-BS1	10E3774	SR SOIL
164	171	ITE2052-01	10E3774	SR SOIL
165	172	10E3774-MS1	10E3774	SR SOIL
166	173	10E3774-MSD1	10E3774	SR SOIL
167	174	ITE2052-02	10E3774	SR SOIL
168	175	ITE2052-03	10E3774	SR SOIL
169	176	ITE2052-04	10E3774	SR SOIL
170	177	ITE2052-05	10E3774	SR SOIL
171	178	ITE2052-06	10E3774	SR SOIL
172	4	SEQUENCE-CCVE		
173	1	SEQUENCE-CCBE Sb +		
174	179	ITE2052-07	10E3774	SR SOIL
175	180	ITE2052-08	10E3774	SR SOIL
176	181	ITE2052-09	10E3774	SR SOIL
177	202	10E3107-BLK1	10E3107	CAMG WATER SEQ
178	203	10E3107-BS1	10E3107	CAMG WATER SEQ
179	204	ITE2091-15@10	10E3107	CAMG WATER SEQ
180	205	10E3107-MS1@10	10E3107	CAMG WATER SEQ
181	206	10E3107-MSD1@10	10E3107	CAMG WATER SEQ
182	207	ITE2091-01	10E3107	CAMG WATER SEQ
183	208	ITE2091-02	10E3107	CAMG WATER SEQ
184	4	SEQUENCE-CCVF		
185	1	SEQUENCE-CCBF Sb +		
186	209	ITE2091-03@10	10E3107	CAMG WATER SEQ
187	210	ITE2091-04@10	10E3107	CAMG WATER SEQ
188	211	ITE2091-05	10E3107	CAMG WATER SEQ

189	212	ITE2091-06	10E3107	CAMG WATER SEQ
190	213	ITE2091-07	10E3107	CAMG WATER SEQ
191	214	ITE2091-08	10E3107	CAMG WATER SEQ
192	215	ITE2091-09	10E3107	CAMG WATER SEQ
193	216	ITE2091-10	10E3107	CAMG WATER SEQ
194	217	~~ITE2091-11~~	10E3107	CAMG WATER SEQ Mn 2x
195	218	ITE2091-12	10E3107	CAMG WATER SEQ
196	4	SEQUENCE-CCVG		
197	1	SEQUENCE-CCBG Sb		
198	219	~~ITE2091-13~~	10E3107	CAMG WATER SEQ Mn 2x
199	220	~~ITE2091-14~~	10E3107	CAMG WATER SEQ
200	221	ITE2091-16	10E3107	CAMG WATER SEQ
201	41	~~ITE2086-18@20~~	10E3241	MN WATER DISS IS
202	66	10E3667-BLK1	10E3667	CAM 200.7 CADW
203	67	10E3667-BS1	10E3667	CAM 200.7 CADW
204	68	ITE2204-01	10E3667	CAM 200.7 CADW
205	69	10E3667-MS1	10E3667	CAM 200.7 CADW
206	70	~~10E3667-MSD1~~	10E3667	CAM 200.7 CADW
207	71	ITE2228-01	10E3667	CAM 200.7 CADW
208	4	SEQUENCE-CCVH		
209	1	SEQUENCE-CCBH Sb		
210	72	10E3667-MS2	10E3667	CAM 200.7 CADW Si
211	75	ITE2322-14	10E3667	FE 200.7 CADW
212	78	ITE2358-04	10E3667	CAFEKMGNA 200.7 CAD
213	240	10E3824-BLK1	10E3824	CAM SOIL Li
214	241	10E3824-BS1	10E3824	CAM SOIL Sn
215	242	ITE2178-02	10E3824	CAM SOIL
216	243	10E3824-MS1	10E3824	CAM SOIL
217	244	10E3824-MSD1	10E3824	CAM SOIL
218	11	10E3834-BLK1	10E3834	AG SOIL
219	12	10E3834-BS1	10E3834	AG SOIL
220	4	SEQUENCE-CCVI		
221	1	SEQUENCE-CCBI Sb		
222	13	~~2043-05~~	10E3834	AG SOIL IS
223	14	10E3834-MS1	10E3834	AG SOIL
224	15	~~10E3834-MSD1~~	10E3834	AG SOIL IS
225	16	~~ITE2043-01~~	10E3834	AG SOIL
226	17	ITE2043-02	10E3834	AG SOIL
227	18	~~ITE2043-03~~	10E3834	AG SOIL IS
228	19	ITE2043-04	10E3834	AG SOIL
229	20	~~ITE2043-06~~	10E3834	AG SOIL IS
230	21	ITE2043-07@2	10E3834	AG SOIL
231	22	~~ITE2138-01~~	10E3834	AG SOIL IS
232	3	SEQUENCE-CCVJ As Cd Co Cr Fe Mg Mn Mo Ni Se Sn Sr		
233	2	SEQUENCE-CCBJ Sb		
234	23	~~ITE2139-01~~	10E3834	AG SOIL IS
235	24	10E3871-BLK1	10E3871	AG SOIL
236	25	~~10E3871-BS1~~	10E3871	AG SOIL IS
237	26	ITE2353-01	10E3871	AG SOIL
238	27	~~10E3871-MS1~~	10E3871	AG SOIL

239	28	~~10E3871-MSD1~~	10E3871	AG SOIL IS
240	245	BLK1		PT SOIL
241	246	BS1		PT SOIL
242	247	ITE2114-02		PT SOIL DIGESTED
243	248	MS1		PT SOIL
244	3	SEQUENCE-CCVK		
245	2	SEQUENCE-CCBK		
246	249	MSD1		PT SOIL
247	250	~~ITE2114-02~~		PT SOIL NOT DIGESTE
248	238	~~ITE2415-01~~	10E3792	CAM TCLP IS
249	239	ITE2594-01	10E3792	PB TCLP
250	42	~~ITE2634-01@2~~	10E3752	NA 200.7 IS
251	44	10E3652-BLK1	10E3652	BFEKNA WATER IS
252	45	10E3652-BS1	10E3652	BFEKNA WATER
253	46	ITE2387-21	10E3652	BFEKNA WATER
254	47	10E3652-MS1	10E3652	BFEKNA WATER
255	48	~~10E3652-MSD1~~	10E3652	BFEKNA WATER
256	3	SEQUENCE-CCVL		
257	2	SEQUENCE-CCBL		
258	49	~~ITE2521-01~~	10E3652	BNA WATER IS
259	50	ITE2521-02	10E3652	BNA WATER
260	51	10E3413-BLK1	10E3413	PPB 200.7 DISS
261	52	10E3413-BS1	10E3413	PPB 200.7 DISS
262	53	ITE2273-01	10E3413	PPB 200.7 DISS
263	54	10E3413-MS1	10E3413	PPB 200.7 DISS
264	55	10E3413-MSD1	10E3413	PPB 200.7 DISS
265	56	ITE2234-01	10E3413	PB 200.7 DISS
266	57	ITE2234-02	10E3413	PB 200.7 DISS
267	58	~~ITE2234-03~~	10E3413	PB 200.7 DISS
268	3	SEQUENCE-CCVM		
269	2	SEQUENCE-CCBM		
270	59	~~ITE2234-04~~	10E3413	PB 200.7 DISS IS
271	60	ITE2273-02	10E3413	P 200.7 DISS
272	61	ITE2273-03	10E3413	P 200.7 DISS
273	62	10E3469-BLK1	10E3469	CDPB TCLP
274	63	10E3469-BS1	10E3469	CDPB TCLP
275	64	ITE2233-01	10E3469	CDPB TCLP
276	65	~~10E3469-MS1~~	10E3469	CDPB TCLP
277	73	ITE2217-01	10E3667	FE 200.7 CADW
278	74	ITE2228-02	10E3667	FEMN 200.7 CADW
279	76	ITE2356-01	10E3667	CAFEMG 200.7 CADW
280	3	SEQUENCE-CCVN		
281	2	SEQUENCE-CCBN		
282	77	~~ITE2356-02~~	10E3667	CAFEMG 200.7 CADW rerun
283	79	ITE2377-05	10E3667	SI 200.7 CADW
284	80	ITE2523-01	10E3667	CAFEKMGNA 200.7 CAD
285	81	ITE2523-02	10E3667	CAFEKMGNA 200.7 CAD
286	82	10E3660-BLK1	10E3660	CAM 200.7
287	83	10E3660-BS1	10E3660	CAM 200.7
288	84	ITE2539-03	10E3660	CAM 200.7

CCV failed

289	85	~~10E3660-MS1~~	10E3660	CAM 200.7 rerun
290	86	10E3660-MSD1	10E3660	CAM 200.7
291	87	~~ITE2210-01~~	10E3660	BCAFEKMGNA 200.7 Na 2x
292	3	~~SEQUENCE-CCVO~~ all ↑		
293	2	SEQUENCE-CCBO Li Sb ↑		
294	88	~~ITE2500-01~~	10E3660	BFE 200.7 rerun
295	89	ITE2501-01	10E3660	BFE 200.7
296	90	ITE2504-01	10E3660	BFE 200.7
297	91	ITE2507-01	10E3660	CAM 200.7
298	92	ITE2538-01	10E3660	BCAFEMGNA 200.7
299	93	ITE2539-01	10E3660	CAM 200.7
300	94	ITE2541-01	10E3660	CAM 200.7
301	95	10E3631-BLK1	10E3631	CAM 200.7 DISS
302	96	10E3631-BS1	10E3631	CAM 200.7 DISS
303	97	~~ITE2364-07~~	10E3631	CAM 200.7 DISS
304	3	SEQUENCE-CCVP		
305	2	SEQUENCE-CCBP Sb ↑		
306	98	10E3631-MS1	10E3631	CAM 200.7 DISS ↑ CaMg
307	99	10E3631-MSD1	10E3631	CAM 200.7 DISS
308	100	ITE2364-05	10E3631	CAM 200.7 DISS
309	101	10E3631-MS2	10E3631	CAM 200.7 DISS
310	102	ITE2246-01	10E3631	BCAFEKMGNA 200.7 DI
311	103	ITE2364-03	10E3631	CACDCUMGZN 200.7 DI
312	104	ITE2364-04	10E3631	CACDCUMGZN 200.7 DI
313	105	ITE2364-06	10E3631	CACDCUMGZN 200.7 DI
314	106	ITE2364-08	10E3631	CACDCUMGZN 200.7 DI
315	107	ITE2452-01	10E3631	FEMN 200.7 DISS
316	3	SEQUENCE-CCVQ As Cd Cr K Mg Mo P Pb Se Sn Sr ↑		
317	2	SEQUENCE-CCBQ Mg Na Sb ↑		
318	108	~~ITE2509-01~~	10E3631	CACDCUMGZN 200.7 DI rerun
319	109	ITE2509-02	10E3631	CACDCUMGZN 200.7 DI
320	110	ITE2509-03	10E3631	CACDCUMGZN 200.7 DI
321	111	ITE2509-04	10E3631	CACDCUMGZN 200.7 DI
322	112	ITE2509-07	10E3631	CACDCUMGZN 200.7 DI
323	113	~~ITE2509-09~~	10E3631	CACDCUMGZN 200.7 DI Ca 5x
324	3	~~SEQUENCE-CCVR~~		
325	2	~~SEQUENCE-CCBR~~		
326	3	~~SEQUENCE-CCVS~~		
327	2	~~SEQUENCE-CCBS~~		
328	5	SEQUENCE-BP4 Na ↑		10.0 PPB
329	6	SEQUENCE-BP5 Si ↑		20.0 PPB
330	9	SEQUENCE-BP~~3~~B Li ↓		
331	10	SEQUENCE-BP~~2~~A		
332	4	SEQUENCE-CCVT		
333	1	SEQUENCE-CCBT		

Sample No	Aliquot Volume	Diluted To Vol.	Sample Units *	Recalibrate Before
1			mg/L	
2			mg/L	
3			mg/L	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA 6010B METALS
Raw Data

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 www.testamericainc.com

DATA CHECKLIST

EPA 6010B / 200.7 – Trace Metals by ICP

Analyst:	DP / LL / VKS	2nd Level Review:	TNB
Analysis Date:	6/01/10	Date:	6/2/10
ICP #:	5	Method used:	EPA 6010/200.7
Data Set #:	100601-2		

Analyst Rev	2nd Level Rev	
✓	✓	**Calibration:** Daily. Minimum 1-point – lowest standard at RL for 2 or 3-pt calibration
✓	✓	Coefficient of linearity R >=0.995
✓	✓	2nd source **ICV:** EPA 6010B: %R = 90-110 - %RSD <= ± 5
✓	✓	EPA 200.7: %R = 95-105 - %RSD <= ± 3
✓	✓	**ICB/CCB:** < RL (Caution limit: < =2.2 MDL or ½ RL)
✓	✓	**Reporting Limit Check:** as required by special project (e.g. DMAP, BP Amoco): 50-150%
		ICSA/ICSAB (6010B) / **SIC** (200.7):
✓	✓	a) Daily (or if weekly: last run was on : . . . . . ; run file # . . . . .
✓	✓	b) %REC: 80 – 120 (for spiked elements)
N/A		c) <= ± 2x RL (for interfered elements)
		d) Reduced strength ICSA/SIC compliant (if needed)
✓	✓	**CCV:** every 10 samples/end of run ; at different concentration than ICV; %R = 90-110
		Method blank: <RL or 0.1x sample concentration (Caution limit:<=2.2 MDL, ½ RL)
✓	✓	**LCS:** every digestion batch of 20 samples or less
✓	✓	EPA 6010B: %R = 80-120
✓	✓	EPA 200.7 : %R = 85-115
✓	✓	**MS/MSD:** every digestion batch of 20 samples or less
✓	✓	EPA 6010B: 75-125 % Rec, ± 20 % RPD (or flag accordingly)
✓	✓	EPA 200.7 : 70-130 % Rec, ± 20 % RPD (or flag accordingly)
✓	✓	**Internal Standard:** EPA200.7: %REC = 60 – 140 (Yttrium)
✓	✓	EPA 6010B: %REC = 30 – 140 (Yttrium)
✓	✓	All samples checked for dilutions, accuracy, precision (RSD if applicable), linear range, IS, RSD, transcription errors and bracketed between compliant CCV/CCB

Comments: ICV: Lit 200.7

ICSAB: Lit

~~2x RL~~ 20 ppb Si T

See: T2C0424

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Rev 02/08/06

Analysis Begun

Start Time: 6/1/2010 3:19:14 PM
Plasma On Time: 6/1/2010 7:26:41 AM
Logged In Analyst: irvinorg
Technique: ICP Continuous
Spectrometer Model: Optima 5300 DV, S/N 077N5112802Autosampler Model: AS-93plus

Sample Information File: C:\pe\inorg\Sample Information\100601-2.sif
Batch ID:
Results Data Set: 100601-2
Results Library: C:\pe\inorg\Results\Results.mdb

Sequence No.: 1
Autosampler Location: 1
Sample ID: Calib Blank 1
Date Collected: 6/1/2010 3:19:16 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	267.0 kPa	0.60 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.030	5643669.7	20497.30	0.36%	100.0	%
Ag328.068†	3309.2	69.74	2.11%	[0.00]	mg/L
Al308.215†	2486.0	66.20	2.66%	[0.00]	mg/L
As188.979†	2.0	3.25	162.20%	[0.00]	mg/L
B 249.773†	80.5	1.26	1.56%	[0.00]	mg/L
Ba 233.527†	-32.6	8.91	27.34%	[0.00]	mg/L
Be 313.107†	-8340.9	23.00	0.28%	[0.00]	mg/L
Ca 315.887†	4331.7	69.06	1.59%	[0.00]	mg/L
Cd 214.438†	-80.7	0.13	0.17%	[0.00]	mg/L
Co 228.616†	32.3	9.60	29.75%	[0.00]	mg/L
Cr 205.552†	-8.7	13.17	151.43%	[0.00]	mg/L
Cu324.754†	2726.2	59.93	2.20%	[0.00]	mg/L
Fe238.204†	105.6	0.63	0.59%	[0.00]	mg/L
K 766.490†	1356.0	49.91	3.68%	[0.00]	mg/L
Li 610.362†	-19629.1	225.93	1.15%	[0.00]	mg/L
Mg279.079†	-32.4	56.68	175.15%	[0.00]	mg/L
Mn257.610†	444.2	43.66	9.83%	[0.00]	mg/L
Mo202.030†	7.1	3.30	46.57%	[0.00]	mg/L
Na 589.592†	198.7	19.79	9.96%	[0.00]	mg/L
Ni231.604†	-141.2	1.76	1.25%	[0.00]	mg/L
P 214.914†	47.9	6.37	13.30%	[0.00]	mg/L
Pb220.353†	52.1	1.11	2.13%	[0.00]	mg/L
Sb 206.833†	56.6	5.58	9.85%	[0.00]	mg/L
Se 196.026†	-1.7	7.09	425.00%	[0.00]	mg/L
Si251.611†	240.2	19.98	8.32%	[0.00]	mg/L
Sn189.933†	43.4	3.63	8.37%	[0.00]	mg/L
Sr 421.552rad†	369.6	35.67	9.65%	[0.00]	mg/L
Ti 334.941†	961.9	157.54	16.38%	[0.00]	mg/L
Tl 190.800†	-17.7	4.79	26.99%	[0.00]	mg/L
V 292.402†	-59.3	25.67	43.27%	[0.00]	mg/L
Zn 213.856†	712.0	1.41	0.20%	[0.00]	mg/L

Sequence No.: 2
Sample ID: Calib Std 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/1/2010 3:22:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Std 1

Analyte	Back Pressure	Flow
All	269.0 kPa	0.60 L/min

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.030	5875222.0	46262.01	0.79%	104.1	%
Ag328.068†	412.1	150.45	36.51%	[0.0025]	mg/L
As188.979†	6.7	3.25	48.60%	[0.005]	mg/L
Ba 233.527†	946.3	6.19	0.65%	[0.005]	mg/L
Be 313.107†	13269.0	12.11	0.09%	[0.005]	mg/L
Ca 315.887†	8885.5	131.54	1.48%	[0.050]	mg/L
Cd 214.438†	1034.5	6.87	0.66%	[0.005]	mg/L
Co 228.616†	239.7	9.29	3.87%	[0.005]	mg/L
Cr 205.552†	92.4	0.55	0.60%	[0.005]	mg/L
Cu324.754†	776.0	54.75	7.06%	[0.005]	mg/L
Mn257.610†	6009.1	79.11	1.32%	[0.005]	mg/L
Mo202.030†	29.2	0.13	0.45%	[0.005]	mg/L
Ni231.604†	184.0	24.03	13.06%	[0.005]	mg/L
Pb220.353†	36.9	1.32	3.59%	[0.005]	mg/L
Sb 206.833†	9.2	2.84	30.88%	[0.005]	mg/L
Se 196.026†	11.4	3.84	33.57%	[0.005]	mg/L
Si251.611†	1108.7	9.38	0.85%	[0.025]	mg/L
Sr 421.552rad†	954.9	32.47	3.40%	[0.005]	mg/L
Ti 334.941†	5597.9	221.36	3.95%	[0.005]	mg/L
Tl 190.800†	9.3	0.49	5.30%	[0.005]	mg/L
V 292.402†	565.5	24.71	4.37%	[0.005]	mg/L
Zn 213.856†	468.7	12.87	2.75%	[0.005]	mg/L

Sequence No.: 3
Sample ID: Calib Std 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/1/2010 3:24:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Std 2

Analyte	Back Pressure	Flow
All	271.0 kPa	0.60 L/min

Mean Data: Calib Std 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.030	5874525.9	66413.86	1.13%	104.1	%
Ag328.068†	5819.5	12.98	0.22%	[0.05]	mg/L
Al308.215†	2307.8	25.79	1.12%	[0.10]	mg/L
As188.979†	148.2	2.22	1.50%	[0.10]	mg/L
B 249.773†	3641.9	24.71	0.68%	[0.10]	mg/L
Ba 233.527†	18656.0	156.93	0.84%	[0.10]	mg/L
Be 313.107†	263096.0	572.55	0.22%	[0.10]	mg/L
Ca 315.887†	193076.3	2375.79	1.23%	[1.00]	mg/L
Cd 214.438†	20211.5	197.35	0.98%	[0.10]	mg/L
Co 228.616†	4757.4	24.13	0.51%	[0.10]	mg/L
Cr 205.552†	1839.1	8.28	0.45%	[0.10]	mg/L
Cu324.754†	17198.4	260.65	1.52%	[0.10]	mg/L
Fe238.204†	13420.2	128.55	0.96%	[0.10]	mg/L
K 766.490†	1677.4	140.54	8.38%	[1.00]	mg/L
Li 610.362†	31780.0	288.55	0.91%	[0.10]	mg/L
Mg279.079†	1461.6	25.25	1.73%	[0.10]	mg/L
Mn257.610†	116238.8	1136.36	0.98%	[0.10]	mg/L
Mo202.030†	608.8	4.13	0.68%	[0.10]	mg/L
Na 589.592†	2459.5	29.02	1.18%	[1.00]	mg/L
Ni231.604†	3343.8	0.34	0.01%	[0.10]	mg/L
P 214.914†	177.8	0.84	0.47%	[0.10]	mg/L
Pb220.353†	839.8	3.62	0.43%	[0.10]	mg/L
Sb 206.833†	230.2	2.15	0.93%	[0.10]	mg/L
Se 196.026†	145.1	0.70	0.48%	[0.10]	mg/L
Si251.611†	22474.8	27.99	0.12%	[0.50]	mg/L
Sn189.933†	477.0	8.02	1.68%	[0.10]	mg/L
Sr 421.552rad†	18335.3	105.01	0.57%	[0.10]	mg/L
Ti 334.941†	114546.0	1377.32	1.20%	[0.10]	mg/L
Tl 190.800†	167.9	4.00	2.38%	[0.10]	mg/L
V 292.402†	10290.5	121.14	1.18%	[0.10]	mg/L
Zn 213.856†	9737.6	9.41	0.10%	[0.10]	mg/L

Sequence No.: 4
Sample ID: Calib Std 3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/1/2010 3:27:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Std 3

Analyte	Back Pressure	Flow
All	267.0 kPa	0.60 L/min

Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.030	5764408.5	226925.05	3.94%	102.1	%
Ag328.068†	55192.3	1294.28	2.35%	[0.50]	mg/L
Al308.215†	23102.8	536.20	2.32%	[1.00]	mg/L
As188.979†	1483.7	59.81	4.03%	[1.00]	mg/L
B 249.773†	37069.2	753.13	2.03%	[1.00]	mg/L
Ba 233.527†	181915.7	3679.54	2.02%	[1.00]	mg/L
Be 313.107†	2618197.5	25135.02	0.96%	[1.00]	mg/L
Ca 315.887†	1703297.2	32000.17	1.88%	[10.00]	mg/L
Cd 214.438†	196505.1	4730.82	2.41%	[1.00]	mg/L
Co 228.616†	46507.3	1012.97	2.18%	[1.00]	mg/L
Cr 205.552†	18119.7	453.26	2.50%	[1.00]	mg/L
Cu324.754†	173692.6	3499.18	2.01%	[1.00]	mg/L
Fe238.204†	130664.9	2770.13	2.12%	[1.00]	mg/L
K 766.490†	16733.6	637.85	3.81%	[10.00]	mg/L
Li 610.362†	274246.2	7680.07	2.80%	[1.00]	mg/L
Mg279.079†	13660.7	269.32	1.97%	[1.00]	mg/L
Mn257.610†	1118460.2	21690.77	1.94%	[1.00]	mg/L
Mo202.030†	6100.6	236.90	3.88%	[1.00]	mg/L
Na 589.592†	23433.9	658.33	2.81%	[10.00]	mg/L
Ni231.604†	32557.2	596.96	1.83%	[1.00]	mg/L
P 214.914†	1788.9	75.31	4.21%	[1.00]	mg/L
Pb220.353†	8224.2	329.38	4.01%	[1.00]	mg/L
Sb 206.833†	2474.9	81.45	3.29%	[1.00]	mg/L
Se 196.026†	1491.3	56.71	3.80%	[1.00]	mg/L
Si251.611†	225811.0	7588.85	3.36%	[5.00]	mg/L
Sn189.933†	4693.9	187.71	4.00%	[1.00]	mg/L
Sr 421.552rad†	178247.9	4856.17	2.72%	[1.00]	mg/L
Ti 334.941†	1139068.6	20854.87	1.83%	[1.00]	mg/L
Tl 190.800†	1599.7	70.28	4.39%	[1.00]	mg/L
V 292.402†	101795.1	2386.07	2.34%	[1.00]	mg/L
Zn 213.856†	90643.4	1945.21	2.15%	[1.00]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag328.068	3	Lin Thru 0	0.0	110400	0.00000	0.999983	
Al308.215	2	Lin Thru 0	0.0	23100	0.00000	1.000000	
As188.979	3	Lin Thru 0	0.0	1484	0.00000	1.000000	
B 249.773	2	Lin Thru 0	0.0	37060	0.00000	0.999998	
Ba 233.527	3	Lin Thru 0	0.0	182000	0.00000	0.999997	
Be 313.107	3	Lin Thru 0	0.0	2618000	0.00000	1.000000	
Ca 315.887	3	Lin Thru 0	0.0	170600	0.00000	0.999913	
Cd 214.438	3	Lin Thru 0	0.0	196600	0.00000	0.999996	
Co 228.616	3	Lin Thru 0	0.0	46520	0.00000	0.999997	
Cr 205.552	3	Lin Thru 0	0.0	18120	0.00000	0.999999	
Cu324.754	3	Lin Thru 0	0.0	173700	0.00000	0.999999	
Fe238.204	2	Lin Thru 0	0.0	130700	0.00000	0.999996	
K 766.490	2	Lin Thru 0	0.0	1673	0.00000	1.000000	
Li 610.362	2	Lin Thru 0	0.0	274700	0.00000	0.999877	
Mg279.079	2	Lin Thru 0	0.0	13670	0.00000	0.999976	
Mn257.610	3	Lin Thru 0	0.0	1119000	0.00000	0.999992	
Mo202.030	3	Lin Thru 0	0.0	6100	0.00000	1.000000	
Na 589.592	2	Lin Thru 0	0.0	2345	0.00000	0.999988	
Ni231.604	3	Lin Thru 0	0.0	32570	0.00000	0.999996	

P 214.914	2	Lin Thru 0	0.0	1789	0.00000	1.000000
Pb220.353	3	Lin Thru 0	0.0	8226	0.00000	0.999998
Sb 206.833	3	Lin Thru 0	0.0	2473	0.00000	0.999975
Se 196.026	3	Lin Thru 0	0.0	1491	0.00000	0.999993
Si251.611	3	Lin Thru 0	0.0	45160	0.00000	1.000000
Sn189.933	2	Lin Thru 0	0.0	4695	0.00000	0.999999
Sr 421.552rad	3	Lin Thru 0	0.0	178300	0.00000	0.999996
Ti 334.941	3	Lin Thru 0	0.0	1139000	0.00000	1.000000
Tl 190.800	3	Lin Thru 0	0.0	1600	0.00000	0.999988
V 292.402	3	Lin Thru 0	0.0	101800	0.00000	0.999999
Zn 213.856	3	Lin Thru 0	0.0	90710	0.00000	0.999973

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Analytical Sequence
Method: 100209_ICP5_FAST

Seq.	Loc.	ID	Status
1	1	Calib Blank 1	Applied
2	2	Calib Std 1	Applied
3	3	Calib Std 2	Applied
4	4	Calib Std 3	Applied

Analysis Begun

Start Time: 6/1/2010 3:33:16 PM
Logged In Analyst: irvinorg
Spectrometer Model: Optima 5300 DV, S/N 077N5112802
Plasma On Time: 6/1/2010 7:26:41 AM
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\inorg\Sample Information\100601-2.sif
Batch ID:
Results Data Set: 100601-2
Results Library: C:\pe\inorg\Results\Results.mdb

Sequence No.: 1
Sample ID: SEQUENCE-ICV1
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 7
Date Collected: 6/1/2010 3:33:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Co, Li & 200.7

Nebulizer Parameters: SEQUENCE-ICV1

Analyte	Back Pressure	Flow
All	272.0 kPa	0.60 L/min

Mean Data: SEQUENCE-ICV1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5879509.1	104.2	%	3.19				3.06%
Ag328.068†	113563.8	1.028	mg/L	0.0154	1.028	mg/L	0.0154	1.50%
Al308.215†	45122.0	1.987	mg/L	0.0398	1.987	mg/L	0.0398	2.00%
As188.979†	3054.2	2.061	mg/L	0.0493	2.061	mg/L	0.0493	2.39%
B 249.773†	74228.2	2.002	mg/L	0.0475	2.002	mg/L	0.0475	2.37%
Ba 233.527†	360328.3	1.982	mg/L	0.0379	1.982	mg/L	0.0379	1.91%
Be 313.107†	5201300.1	1.986	mg/L	0.0201	1.986	mg/L	0.0201	1.01%
Ca 315.887†	1639830.4	9.580	mg/L	0.1888	9.580	mg/L	0.1888	1.97%
Cd 214.438†	379132.5	1.929	mg/L	0.0440	1.929	mg/L	0.0440	2.28%
Co 228.616†	87239.4	1.873	mg/L	0.0353	1.873	mg/L	0.0353	1.88%
Cr 205.552†	34869.4	1.923	mg/L	0.0299	1.923	mg/L	0.0299	1.55%
Cu324.754†	336949.2	1.940	mg/L	0.0402	1.940	mg/L	0.0402	2.07%
Fe238.204†	256530.4	1.966	mg/L	0.0322	1.966	mg/L	0.0322	1.64%
K 766.490†	32427.5	19.39	mg/L	0.485	19.39	mg/L	0.485	2.50%
Li 610.362†	508885.9	1.856	mg/L	0.0237	1.856	mg/L	0.0237	1.28%
Mg279.079†	134460.2	9.877	mg/L	0.2445	9.877	mg/L	0.2445	2.48%
Mn257.610†	2173259.7	1.942	mg/L	0.0379	1.942	mg/L	0.0379	1.95%
Mo202.030†	11706.3	1.920	mg/L	0.0433	1.920	mg/L	0.0433	2.26%
Na 589.592†	45918.9	19.60	mg/L	0.569	19.60	mg/L	0.569	2.91%
Ni231.604†	62928.6	1.930	mg/L	0.0436	1.930	mg/L	0.0436	2.26%
P 214.914†	3526.4	1.955	mg/L	0.0524	1.955	mg/L	0.0524	2.68%
Pb220.353†	15610.2	1.900	mg/L	0.0475	1.900	mg/L	0.0475	2.50%
Sb 206.833†	4867.1	1.969	mg/L	0.0448	1.969	mg/L	0.0448	2.27%
Se 196.026†	2894.1	1.941	mg/L	0.0494	1.941	mg/L	0.0494	2.54%
Si251.611†	442851.8	9.685	mg/L	0.3090	9.685	mg/L	0.3090	3.19%
Sn189.933†	9178.8	1.957	mg/L	0.0476	1.957	mg/L	0.0476	2.43%
Sr 421.552rad†	347999.3	1.952	mg/L	0.0520	1.952	mg/L	0.0520	2.66%
Ti 334.941†	2251999.0	1.977	mg/L	0.0380	1.977	mg/L	0.0380	1.92%
Tl 190.800†	3063.5	1.918	mg/L	0.0505	1.918	mg/L	0.0505	2.63%
V 292.402†	199875.8	1.981	mg/L	0.0405	1.981	mg/L	0.0405	2.04%
Zn 213.856†	176966.8	1.938	mg/L	0.0387	1.938	mg/L	0.0387	2.00%

Sequence No.: 3
Sample ID: SEQUENCE-~~IFA1~~ IFB1
Analyst:
Initial Sample Wt:
Dilution:

DP 6/01/10

Autosampler Location: 9
Date Collected: 6/1/2010 3:38:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: SEQUENCE-~~IFA1~~ IFB1

Analyte	Back Pressure	Flow
All	268.0 kPa	0.60 L/min

Mean Data: SEQUENCE-~~IFA1~~ IFB1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5376671.5	95.27	%	0.958				1.01%
Ag328.068†	20279.0	0.2435	mg/L	0.00014	0.2435	mg/L	0.00014	0.06%
Al308.215†	11009115.6	476.5	mg/L	3.22	476.5	mg/L	3.22	0.68%
As188.979†	725.5	0.4855	mg/L	0.00666	0.4855	mg/L	0.00666	1.37%
B 249.773†	28788.4	0.5415	mg/L	0.00124	0.5415	mg/L	0.00124	0.23%
Ba 233.527†	86314.9	0.4749	mg/L	0.00033	0.4749	mg/L	0.00033	0.07%
Be 313.107†	1262807.6	0.4821	mg/L	0.00531	0.4821	mg/L	0.00531	1.10%
Ca 315.887†	75117988.4	440.3	mg/L	1.38	440.3	mg/L	1.38	0.31%
Cd 214.438†	89617.5	0.4559	mg/L	0.00098	0.4559	mg/L	0.00098	0.22%
Co 228.616†	20618.5	0.4426	mg/L	0.00109	0.4426	mg/L	0.00109	0.25%
Cr 205.552†	8496.5	0.4687	mg/L	0.00165	0.4687	mg/L	0.00165	0.35%
Cu324.754†	89465.5	0.5151	mg/L	0.00333	0.5151	mg/L	0.00333	0.65%
Fe238.204†	21201515.5	162.2	mg/L	0.26	162.2	mg/L	0.26	0.16%
K 766.490†	18032.4	10.61	mg/L	0.174	10.61	mg/L	0.174	1.64%
Li 610.362†	90563.3	0.3903	mg/L	0.00691	0.3903	mg/L	0.00691	1.77%
Mg279.079†	6578310.0	481.2	mg/L	7.38	481.2	mg/L	7.38	1.53%
Mn257.610†	535549.0	0.4686	mg/L	0.00044	0.4686	mg/L	0.00044	0.09%
Mo202.030†	2942.4	0.4738	mg/L	0.00267	0.4738	mg/L	0.00267	0.56%
Na 589.592†	24337.5	10.23	mg/L	0.198	10.23	mg/L	0.198	1.94%
Ni231.604†	12217.2	0.4330	mg/L	0.00076	0.4330	mg/L	0.00076	0.18%
P 214.914†	684.6	0.4713	mg/L	0.00007	0.4713	mg/L	0.00007	0.01%
Pb220.353†	4069.0	0.4554	mg/L	0.00031	0.4554	mg/L	0.00031	0.07%
Sb 206.833†	1206.6	0.4633	mg/L	0.01167	0.4633	mg/L	0.01167	2.52%
Se 196.026†	528.2	0.4532	mg/L	0.00062	0.4532	mg/L	0.00062	0.14%
Si251.611†	107231.2	2.372	mg/L	0.0033	2.372	mg/L	0.0033	0.14%
Sn189.933†	2070.0	0.4595	mg/L	0.00158	0.4595	mg/L	0.00158	0.34%
Sr 421.552rad†	90214.7	0.5007	mg/L	0.00794	0.5007	mg/L	0.00794	1.59%
Ti 334.941†	542161.6	0.4921	mg/L	0.00131	0.4921	mg/L	0.00131	0.27%
Tl 190.800†	682.6	0.4293	mg/L	0.00100	0.4293	mg/L	0.00100	0.23%
V 292.402†	49269.2	0.4884	mg/L	0.00251	0.4884	mg/L	0.00251	0.51%
Zn 213.856†	44883.8	0.4721	mg/L	0.00072	0.4721	mg/L	0.00072	0.15%

Analysis Begun

Start Time: 6/1/2010 3:49:27 PM
Plasma On Time: 6/1/2010 7:26:41 AM
Logged In Analyst: irvinorg
Technique: ICP Continuous
Spectrometer Model: Optima 5300 DV, S/N 077N5112802Autosampler Model: AS-93plus

Sample Information File: C:\pe\inorg\Sample Information\100601-2.sif
Batch ID:
Results Data Set: 100601-2
Results Library: C:\pe\inorg\Results\Results.mdb

Sequence No.: 1
Autosampler Location: 11
Sample ID: SEQUENCE-IFA2
Date Collected: 6/1/2010 3:49:28 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Nebulizer Parameters: SEQUENCE-IFA2

Analyte	Back Pressure	Flow
All	271.0 kPa	0.60 L/min

Mean Data: SEQUENCE-IFA2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5422625.1	96.08	%	2.084				2.17%
Ag328.068†	-8290.3	-0.0150	mg/L	0.00196	-0.0150	mg/L	0.00196	13.06%
Al308.215†	11037381.8	477.7	mg/L	3.61	477.7	mg/L	3.61	0.75%
As188.979†	-1.5	-0.0051	mg/L	0.00076	-0.0051	mg/L	0.00076	14.99%
B 249.773†	10697.7	0.0531	mg/L	0.00346	0.0531	mg/L	0.00346	6.51%
Ba 233.527†	825.4	0.0045	mg/L	0.00006	0.0045	mg/L	0.00006	1.26%
Be 313.107†	-643.7	-0.0002	mg/L	0.00010	-0.0002	mg/L	0.00010	39.55%
Ca 315.887†	75119949.8	440.3	mg/L	2.44	440.3	mg/L	2.44	0.55%
Cd 214.438†	881.4	0.0045	mg/L	0.00002	0.0045	mg/L	0.00002	0.36%
Co 228.616†	44.0	0.0010	mg/L	0.00002	0.0010	mg/L	0.00002	1.85%
Cr 205.552†	-68.8	-0.0035	mg/L	0.00012	-0.0035	mg/L	0.00012	3.45%
Cu324.754†	375.6	0.0022	mg/L	0.00045	0.0022	mg/L	0.00045	20.99%
Fe238.204†	21181263.3	162.0	mg/L	1.24	162.0	mg/L	1.24	0.77%
K 766.490†	51.3	-0.1348	mg/L	0.02468	-0.1348	mg/L	0.02468	18.30%
Li 610.362†	-17316.9	-0.0031	mg/L	0.00268	-0.0031	mg/L	0.00268	86.64%
Saturated outside survey window (code 6)								
Mg279.079†	6487799.3	474.5	mg/L	2.94	474.5	mg/L	2.94	0.62%
Mn257.610†	19585.8	0.0074	mg/L	0.00026	0.0074	mg/L	0.00026	3.48%
Mo202.030†	6.4	-0.0077	mg/L	0.00046	-0.0077	mg/L	0.00046	5.98%
Na 589.592†	238.3	-0.0541	mg/L	0.00799	-0.0541	mg/L	0.00799	14.78%
Ni231.604†	-2174.2	-0.0081	mg/L	0.00067	-0.0081	mg/L	0.00067	8.26%
P 214.914†	-174.7	-0.0042	mg/L	0.00722	-0.0042	mg/L	0.00722	170.32%
Pb220.353†	341.5	0.0016	mg/L	0.00028	0.0016	mg/L	0.00028	18.25%
Sb 206.833†	42.1	-0.0078	mg/L	0.00030	-0.0078	mg/L	0.00030	3.81%
Se 196.026†	-153.3	-0.0036	mg/L	0.00146	-0.0036	mg/L	0.00146	40.31%
Si251.611†	-954.5	0.0058	mg/L	0.00149	0.0058	mg/L	0.00149	25.61%
Sn189.933†	-69.2	0.0034	mg/L	0.00136	0.0034	mg/L	0.00136	40.32%
Sr 421.552rad†	2150.2	0.0068	mg/L	0.00032	0.0068	mg/L	0.00032	4.66%
Ti 334.941†	-12203.7	0.0055	mg/L	0.00010	0.0055	mg/L	0.00010	1.86%
Tl 190.800†	-8.1	-0.0032	mg/L	0.00261	-0.0032	mg/L	0.00261	81.51%
V 292.402†	-389.5	-0.0038	mg/L	0.00017	-0.0038	mg/L	0.00017	4.55%
Zn 213.856†	2206.6	0.0045	mg/L	0.00039	0.0045	mg/L	0.00039	8.54%

Sequence No.: 2
Sample ID: RINSE
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/1/2010 3:52:34 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: RINSE

Analyte	Back Pressure	Flow
All	270.0 kPa	0.60 L/min

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5756268.1	102.0	%	3.69				3.62%
Ag328.068†	18.0	0.0002	mg/L	0.00090	0.0002	mg/L	0.00090	529.99%
Al308.215†	840.1	0.0364	mg/L	0.02432	0.0364	mg/L	0.02432	66.87%
As188.979†	-0.5	-0.0003	mg/L	0.00281	-0.0003	mg/L	0.00281	827.02%
B 249.773†	-1.0	-0.0001	mg/L	0.00012	-0.0001	mg/L	0.00012	207.60%
Ba 233.527†	-0.5	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	>999.9%
Be 313.107†	-0.2	0.0000	mg/L	0.00012	0.0000	mg/L	0.00012	>999.9%
Ca 315.887†	5774.2	0.0338	mg/L	0.02275	0.0338	mg/L	0.02275	67.23%
Cd 214.438†	6.7	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	39.46%
Co 228.616†	-5.7	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	25.27%
Cr 205.552†	6.8	0.0004	mg/L	0.00021	0.0004	mg/L	0.00021	54.99%
Cu324.754†	-138.6	-0.0008	mg/L	0.00046	-0.0008	mg/L	0.00046	58.24%
Fe238.204†	2672.9	0.0204	mg/L	0.00685	0.0204	mg/L	0.00685	33.52%
K 766.490†	-45.9	-0.0274	mg/L	0.02271	-0.0274	mg/L	0.02271	82.87%
Li 610.362†	392.8	0.0014	mg/L	0.00298	0.0014	mg/L	0.00298	207.99%
Mg279.079†	470.8	0.0344	mg/L	0.02679	0.0344	mg/L	0.02679	77.80%
Mn257.610†	42.1	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	280.83%
Mo202.030†	0.3	0.0000	mg/L	0.00038	0.0000	mg/L	0.00038	802.78%
Na 589.592†	58.4	0.0249	mg/L	0.00307	0.0249	mg/L	0.00307	12.35%
Ni231.604†	11.9	0.0004	mg/L	0.00007	0.0004	mg/L	0.00007	19.52%
P 214.914†	-0.6	-0.0003	mg/L	0.00689	-0.0003	mg/L	0.00689	>999.9%
Pb220.353†	-3.6	-0.0004	mg/L	0.00069	-0.0004	mg/L	0.00069	157.11%
Sb 206.833†	-5.2	-0.0021	mg/L	0.00332	-0.0021	mg/L	0.00332	159.08%
Se 196.026†	-3.8	-0.0025	mg/L	0.00147	-0.0025	mg/L	0.00147	58.63%
Si251.611†	-72.2	-0.0016	mg/L	0.00145	-0.0016	mg/L	0.00145	88.55%
Sn189.933†	3.9	0.0008	mg/L	0.00071	0.0008	mg/L	0.00071	84.46%
Sr 421.552rad†	63.8	0.0004	mg/L	0.00008	0.0004	mg/L	0.00008	22.64%
Ti 334.941†	-406.2	-0.0004	mg/L	0.00008	-0.0004	mg/L	0.00008	23.36%
Tl 190.800†	-1.0	-0.0006	mg/L	0.00072	-0.0006	mg/L	0.00072	113.28%
V 292.402†	51.2	0.0005	mg/L	0.00037	0.0005	mg/L	0.00037	73.58%
Zn 213.856†	-6.8	-0.0001	mg/L	0.00025	-0.0001	mg/L	0.00025	322.74%

Sequence No.: 3
Sample ID: SEQUENCE-CRL1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/1/2010 3:55:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: SEQUENCE-CRL1

Analyte	Back Pressure	Flow
All	269.0 kPa	0.60 L/min

Mean Data: SEQUENCE-CRL1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5871860.7	104.0	%	0.67				0.65%
Ag328.068†	372.7	0.0034	mg/L	0.00077	0.0034	mg/L	0.00077	22.75%
Al308.215†	56.6	0.0026	mg/L	0.00406	0.0026	mg/L	0.00406	158.53%
As188.979†	7.5	0.0051	mg/L	0.00004	0.0051	mg/L	0.00004	0.79%
B 249.773†	175.0	0.0047	mg/L	0.00003	0.0047	mg/L	0.00003	0.64%
Ba 233.527†	918.6	0.0051	mg/L	0.00006	0.0051	mg/L	0.00006	1.22%
Be 313.107†	13076.7	0.0050	mg/L	0.00003	0.0050	mg/L	0.00003	0.69%
Ca 315.887†	8972.3	0.0525	mg/L	0.00074	0.0525	mg/L	0.00074	1.41%
Cd 214.438†	1006.8	0.0051	mg/L	0.00001	0.0051	mg/L	0.00001	0.29%
Co 228.616†	234.2	0.0050	mg/L	0.00002	0.0050	mg/L	0.00002	0.35%
Cr 205.552†	93.1	0.0051	mg/L	0.00006	0.0051	mg/L	0.00006	1.25%
Cu324.754†	761.3	0.0044	mg/L	0.00006	0.0044	mg/L	0.00006	1.44%
Fe238.204†	1285.8	0.0098	mg/L	0.00159	0.0098	mg/L	0.00159	16.18%
K 766.490†	26.6	0.0159	mg/L	0.00545	0.0159	mg/L	0.00545	34.18%
Li 610.362†	2339.6	0.0085	mg/L	0.00127	0.0085	mg/L	0.00127	14.85%
Mg279.079†	72.9	0.0054	mg/L	0.00026	0.0054	mg/L	0.00026	4.80%
Mn257.610†	5921.1	0.0053	mg/L	0.00011	0.0053	mg/L	0.00011	2.06%
Mo202.030†	29.9	0.0049	mg/L	0.00006	0.0049	mg/L	0.00006	1.14%
Na 589.592†	154.2	0.0658	mg/L	0.01319	0.0658	mg/L	0.01319	20.04%
Ni231.604†	174.7	0.0054	mg/L	0.00014	0.0054	mg/L	0.00014	2.70%
P 214.914†	11.2	0.0062	mg/L	0.00068	0.0062	mg/L	0.00068	10.92%
Pb220.353†	40.7	0.0050	mg/L	0.00014	0.0050	mg/L	0.00014	2.82%
Sb 206.833†	1.6	0.0007	mg/L	0.00226	0.0007	mg/L	0.00226	342.00%
Se 196.026†	3.6	0.0024	mg/L	0.00160	0.0024	mg/L	0.00160	65.73%
Si251.611†	1090.2	0.0238	mg/L	0.00114	0.0238	mg/L	0.00114	4.78%
Sn189.933†	28.4	0.0060	mg/L	0.00040	0.0060	mg/L	0.00040	6.53%
Sr 421.552rad†	893.8	0.0050	mg/L	0.00023	0.0050	mg/L	0.00023	4.56%
Ti 334.941†	5602.7	0.0049	mg/L	0.00015	0.0049	mg/L	0.00015	3.12%
Tl 190.800†	10.4	0.0065	mg/L	0.00060	0.0065	mg/L	0.00060	9.19%
V 292.402†	591.1	0.0059	mg/L	0.00030	0.0059	mg/L	0.00030	5.20%
Zn 213.856†	493.8	0.0054	mg/L	0.00010	0.0054	mg/L	0.00010	1.79%

Sequence No.: 4
Sample ID: SEQUENCE-CRL2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/1/2010 3:58:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: SEQUENCE-CRL2

Analyte	Back Pressure	Flow
All	269.0 kPa	0.60 L/min

Mean Data: SEQUENCE-CRL2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5747686.8	101.8	%	0.32				0.32%
Ag328.068†	587.9	0.0054	mg/L	0.00070	0.0054	mg/L	0.00070	13.07%
Al308.215†	2486.1	0.1077	mg/L	0.00275	0.1077	mg/L	0.00275	2.55%
As188.979†	13.6	0.0091	mg/L	0.00082	0.0091	mg/L	0.00082	8.93%
B 249.773†	3952.6	0.1065	mg/L	0.00126	0.1065	mg/L	0.00126	1.19%
Ba 233.527†	1869.3	0.0103	mg/L	0.00004	0.0103	mg/L	0.00004	0.38%
Be 313.107†	26370.9	0.0101	mg/L	0.00021	0.0101	mg/L	0.00021	2.13%
Ca 315.887†	33971.2	0.1981	mg/L	0.00341	0.1981	mg/L	0.00341	1.72%
Cd 214.438†	2017.4	0.0103	mg/L	0.00006	0.0103	mg/L	0.00006	0.55%
Co 228.616†	473.9	0.0102	mg/L	0.00005	0.0102	mg/L	0.00005	0.46%
Cr 205.552†	179.9	0.0099	mg/L	0.00003	0.0099	mg/L	0.00003	0.33%
Cu324.754†	1662.9	0.0096	mg/L	0.00009	0.0096	mg/L	0.00009	0.91%
Fe238.204†	11038.8	0.0843	mg/L	0.00076	0.0843	mg/L	0.00076	0.90%
K 766.490†	1571.9	0.9401	mg/L	0.03417	0.9401	mg/L	0.03417	3.63%
Li 610.362†	31445.4	0.1145	mg/L	0.00218	0.1145	mg/L	0.00218	1.90%
Mg279.079†	517.5	0.0379	mg/L	0.00804	0.0379	mg/L	0.00804	21.21%
Mn257.610†	11743.2	0.0105	mg/L	0.00014	0.0105	mg/L	0.00014	1.29%
Mo202.030†	61.5	0.0101	mg/L	0.00044	0.0101	mg/L	0.00044	4.32%
Na 589.592†	2482.1	1.059	mg/L	0.0090	1.059	mg/L	0.0090	0.85%
Ni231.604†	346.4	0.0106	mg/L	0.00010	0.0106	mg/L	0.00010	0.97%
P 214.914†	145.0	0.0810	mg/L	0.00070	0.0810	mg/L	0.00070	0.87%
Pb220.353†	76.5	0.0093	mg/L	0.00067	0.0093	mg/L	0.00067	7.24%
Sb 206.833†	13.3	0.0066	mg/L	0.00037	0.0066	mg/L	0.00037	5.64%
Se 196.026†	17.2	0.0115	mg/L	0.00224	0.0115	mg/L	0.00224	19.50%
Si251.611†	10120.4	0.2148	mg/L	0.00219	0.2148	mg/L	0.00219	1.02%
Sn189.933†	941.8	0.2006	mg/L	0.00124	0.2006	mg/L	0.00124	0.62%
Sr 421.552rad†	1890.9	0.0106	mg/L	0.00012	0.0106	mg/L	0.00012	1.11%
Ti 334.941†	11314.7	0.0099	mg/L	0.00012	0.0099	mg/L	0.00012	1.21%
Tl 190.800†	17.5	0.0110	mg/L	0.00095	0.0110	mg/L	0.00095	8.62%
V 292.402†	1088.1	0.0108	mg/L	0.00023	0.0108	mg/L	0.00023	2.11%
Zn 213.856†	1271.9	0.0139	mg/L	0.00013	0.0139	mg/L	0.00013	0.96%

Sequence No.: 5
Sample ID: SEQUENCE-CRL3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/1/2010 4:00:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: SEQUENCE-CRL3

Analyte	Back Pressure	Flow
All	266.0 kPa	0.60 L/min

Si π

Mean Data: SEQUENCE-CRL3

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5749013.2	101.9	%	0.68				0.67%
Ag328.068†	974.0	0.0088	mg/L	0.00047	0.0088	mg/L	0.00047	5.34%
Al308.215†	341.0	0.0151	mg/L	0.00579	0.0151	mg/L	0.00579	38.29%
As188.979†	27.9	0.0188	mg/L	0.00202	0.0188	mg/L	0.00202	10.72%
B 249.773†	909.5	0.0245	mg/L	0.00009	0.0245	mg/L	0.00009	0.35%
Ba 233.527†	3710.4	0.0204	mg/L	0.00014	0.0204	mg/L	0.00014	0.71%
Be 313.107†	52045.4	0.0199	mg/L	0.00018	0.0199	mg/L	0.00018	0.89%
Ca 315.887†	32841.6	0.1922	mg/L	0.00148	0.1922	mg/L	0.00148	0.77%
Cd 214.438†	3977.3	0.0202	mg/L	0.00021	0.0202	mg/L	0.00021	1.03%
Co 228.616†	927.3	0.0199	mg/L	0.00012	0.0199	mg/L	0.00012	0.59%
Cr 205.552†	366.3	0.0202	mg/L	0.00034	0.0202	mg/L	0.00034	1.68%
Cu324.754†	3406.5	0.0196	mg/L	0.00033	0.0196	mg/L	0.00033	1.68%
Fe238.204†	2630.0	0.0202	mg/L	0.00038	0.0202	mg/L	0.00038	1.86%
K 766.490†	300.5	0.1798	mg/L	0.00349	0.1798	mg/L	0.00349	1.94%
Li 610.362†	7144.4	0.0261	mg/L	0.00025	0.0261	mg/L	0.00025	0.96%
Mg279.079†	297.2	0.0222	mg/L	0.00481	0.0222	mg/L	0.00481	21.72%
Mn257.610†	23259.2	0.0208	mg/L	0.00012	0.0208	mg/L	0.00012	0.60%
Mo202.030†	120.9	0.0198	mg/L	0.00017	0.0198	mg/L	0.00017	0.85%
Na 589.592†	528.3	0.2255	mg/L	0.01913	0.2255	mg/L	0.01913	8.48%
Ni231.604†	666.1	0.0204	mg/L	0.00009	0.0204	mg/L	0.00009	0.45%
P 214.914†	38.0	0.0211	mg/L	0.00192	0.0211	mg/L	0.00192	9.14%
Pb220.353†	166.9	0.0203	mg/L	0.00052	0.0203	mg/L	0.00052	2.56%
Sb 206.833†	45.9	0.0186	mg/L	0.00093	0.0186	mg/L	0.00093	4.98%
Se 196.026†	32.7	0.0219	mg/L	0.00212	0.0219	mg/L	0.00212	9.69%
Si251.611†	7034.9	0.1545	mg/L	0.00089	0.1545	mg/L	0.00089	0.57%
Sn189.933†	101.0	0.0215	mg/L	0.00157	0.0215	mg/L	0.00157	7.30%
Sr 421.552rad†	3716.2	0.0208	mg/L	0.00054	0.0208	mg/L	0.00054	2.61%
Ti 334.941†	22526.2	0.0198	mg/L	0.00009	0.0198	mg/L	0.00009	0.48%
Tl 190.800†	34.4	0.0215	mg/L	0.00236	0.0215	mg/L	0.00236	10.96%
V 292.402†	2082.5	0.0206	mg/L	0.00014	0.0206	mg/L	0.00014	0.67%
Zn 213.856†	1888.2	0.0207	mg/L	0.00010	0.0207	mg/L	0.00010	0.46%

Sequence No.: 6
Sample ID: CO ICV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 6/1/2010 4:03:39 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CO ICV

Analyte	Back Pressure	Flow
All	267.0 kPa	0.60 L/min

Mean Data: CO ICV

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5743616.5	101.8	%	1.24				1.22%
Ag328.068†	12.3	0.0001	mg/L	0.00105	0.0001	mg/L	0.00105	953.82%
Al308.215†	-332.4	-0.0042	mg/L	0.00505	-0.0042	mg/L	0.00505	120.85%
As188.979†	-1.6	-0.0011	mg/L	0.00138	-0.0011	mg/L	0.00138	126.40%
B 249.773†	-80.4	0.0000	mg/L	0.00014	0.0000	mg/L	0.00014	>999.9%
Ba 233.527†	-21.9	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	12.69%
Be 313.107†	-91.1	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	228.65%
Ca 315.887†	1145.0	-0.0046	mg/L	0.00000	-0.0046	mg/L	0.00000	0.02%
Cd 214.438†	7.9	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	70.11%
Co 228.616†	97444.2	2.095	mg/L	0.0616	2.095	mg/L	0.0616	2.94%
Cr 205.552†	5.6	0.0003	mg/L	0.00003	0.0003	mg/L	0.00003	9.27%
Cu324.754†	-35.4	-0.0002	mg/L	0.00035	-0.0002	mg/L	0.00035	169.77%
Fe238.204†	-503.3	0.0018	mg/L	0.00012	0.0018	mg/L	0.00012	6.66%
K 766.490†	-69.3	-0.0354	mg/L	0.00397	-0.0354	mg/L	0.00397	11.22%
Li 610.362†	343.9	0.0013	mg/L	0.00165	0.0013	mg/L	0.00165	131.36%
Mg279.079†	14.6	0.0011	mg/L	0.00278	0.0011	mg/L	0.00278	258.26%
Mn257.610†	-27.8	0.0000	mg/L	0.00001	0.0000	mg/L	0.00001	42.78%
Mo202.030†	3.5	0.0006	mg/L	0.00042	0.0006	mg/L	0.00042	73.98%
Na 589.592†	-16.7	-0.0071	mg/L	0.00887	-0.0071	mg/L	0.00887	124.77%
Ni231.604†	139.0	0.0005	mg/L	0.00001	0.0005	mg/L	0.00001	1.40%
P 214.914†	3.7	0.0033	mg/L	0.00285	0.0033	mg/L	0.00285	85.42%
Pb220.353†	-4.4	-0.0005	mg/L	0.00075	-0.0005	mg/L	0.00075	141.18%
Sb 206.833†	-9.1	-0.0037	mg/L	0.00032	-0.0037	mg/L	0.00032	8.86%
Se 196.026†	-4.7	-0.0019	mg/L	0.00371	-0.0019	mg/L	0.00371	193.49%
Si251.611†	-57.6	-0.0013	mg/L	0.00117	-0.0013	mg/L	0.00117	87.63%
Sn189.933†	5.3	0.0011	mg/L	0.00145	0.0011	mg/L	0.00145	129.14%
Sr 421.552rad†	26.1	0.0001	mg/L	0.00012	0.0001	mg/L	0.00012	79.08%
Ti 334.941†	-437.3	-0.0004	mg/L	0.00002	-0.0004	mg/L	0.00002	5.14%
Tl 190.800†	-1.9	-0.0038	mg/L	0.00111	-0.0038	mg/L	0.00111	29.35%
V 292.402†	69.1	0.0007	mg/L	0.00000	0.0007	mg/L	0.00000	0.12%
Zn 213.856†	61.5	0.0007	mg/L	0.00019	0.0007	mg/L	0.00019	29.24%

Sequence No.: 7
Sample ID: SEQUENCE-ICB2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/1/2010 4:06:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: SEQUENCE-ICB2

Analyte	Back Pressure	Flow
All	272.0 kPa	0.60 L/min

Mean Data: SEQUENCE-ICB2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5987373.0	106.1	%	2.18				2.05%
Ag328.068†	106.8	0.0010	mg/L	0.00007	0.0010	mg/L	0.00007	6.90%
Al308.215†	140.9	0.0061	mg/L	0.00293	0.0061	mg/L	0.00293	47.87%
As188.979†	-1.6	-0.0011	mg/L	0.00053	-0.0011	mg/L	0.00053	49.13%
B 249.773†	-17.3	-0.0005	mg/L	0.00008	-0.0005	mg/L	0.00008	17.83%
Ba 233.527†	-6.0	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	85.65%
Be 313.107†	95.2	0.0000	mg/L	0.00009	0.0000	mg/L	0.00009	246.76%
Ca 315.887†	1538.5	0.0090	mg/L	0.00065	0.0090	mg/L	0.00065	7.17%
Cd 214.438†	10.3	0.0001	mg/L	0.00005	0.0001	mg/L	0.00005	86.88%
Co 228.616†	-1.8	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	1.31%
Cr 205.552†	2.7	0.0002	mg/L	0.00008	0.0002	mg/L	0.00008	54.60%
Cu324.754†	-129.5	-0.0007	mg/L	0.00058	-0.0007	mg/L	0.00058	77.29%
Fe238.204†	654.6	0.0050	mg/L	0.00012	0.0050	mg/L	0.00012	2.46%
K 766.490†	-82.7	-0.0494	mg/L	0.04167	-0.0494	mg/L	0.04167	84.30%
Li 610.362†	777.5	0.0028	mg/L	0.00203	0.0028	mg/L	0.00203	71.69%
Mg279.079†	140.7	0.0103	mg/L	0.00203	0.0103	mg/L	0.00203	19.75%
Mn257.610†	-2.3	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	174.91%
Mo202.030†	-0.2	0.0000	mg/L	0.00036	0.0000	mg/L	0.00036	>999.9%
Na 589.592†	25.1	0.0107	mg/L	0.02023	0.0107	mg/L	0.02023	189.08%
Ni231.604†	12.5	0.0004	mg/L	0.00040	0.0004	mg/L	0.00040	103.36%
P 214.914†	-1.6	-0.0009	mg/L	0.00007	-0.0009	mg/L	0.00007	8.03%
Pb220.353†	-3.6	-0.0004	mg/L	0.00100	-0.0004	mg/L	0.00100	227.44%
Sb 206.833†	-9.7	-0.0039	mg/L	0.00137	-0.0039	mg/L	0.00137	34.70%
Se 196.026†	1.0	0.0007	mg/L	0.00019	0.0007	mg/L	0.00019	28.16%
Si251.611†	-11.8	-0.0003	mg/L	0.00036	-0.0003	mg/L	0.00036	133.74%
Sn189.933†	0.9	0.0002	mg/L	0.00037	0.0002	mg/L	0.00037	191.17%
Sr 421.552rad†	66.5	0.0004	mg/L	0.00034	0.0004	mg/L	0.00034	90.62%
Ti 334.941†	-429.7	-0.0004	mg/L	0.00004	-0.0004	mg/L	0.00004	10.05%
Tl 190.800†	-1.0	-0.0006	mg/L	0.00031	-0.0006	mg/L	0.00031	50.60%
V 292.402†	61.4	0.0006	mg/L	0.00077	0.0006	mg/L	0.00077	127.56%
Zn 213.856†	-20.7	-0.0002	mg/L	0.00022	-0.0002	mg/L	0.00022	95.04%

Analysis Begun

Start Time: 6/1/2010 5:21:21 PM
Plasma On Time: 6/1/2010 7:26:41 AM
Logged In Analyst: irvinorg
Technique: ICP Continuous
Spectrometer Model: Optima 5300 DV, S/N 077N5112802Autosampler Model: AS-93plus

Sample Information File: C:\pe\inorg\Sample Information\100601-2.sif
Batch ID:
Results Data Set: 100601-2
Results Library: C:\pe\inorg\Results\Results.mdb

Sequence No.: 1
Autosampler Location: 4
Sample ID: SEQUENCE-CCV2
Date Collected: 6/1/2010 5:21:23 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Nebulizer Parameters: SEQUENCE-CCV2

Analyte	Back Pressure	Flow
All	274.0 kPa	0.60 L/min

Mean Data: SEQUENCE-CCV2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5800577.8	102.8	%	2.27				2.21%
Ag328.068†	57036.3	0.5164	mg/L	0.00522	0.5164	mg/L	0.00522	1.01%
Al308.215†	23924.3	1.053	mg/L	0.0086	1.053	mg/L	0.0086	0.82%
As188.979†	1521.2	1.026	mg/L	0.0048	1.026	mg/L	0.0048	0.46%
B 249.773†	37892.1	1.022	mg/L	0.0007	1.022	mg/L	0.0007	0.07%
Ba 233.527†	187755.6	1.033	mg/L	0.0105	1.033	mg/L	0.0105	1.02%
Be 313.107†	2679901.2	1.023	mg/L	0.0026	1.023	mg/L	0.0026	0.25%
Ca 315.887†	1747824.7	10.23	mg/L	0.000	10.23	mg/L	0.000	0.00%
Cd 214.438†	203269.8	1.034	mg/L	0.0145	1.034	mg/L	0.0145	1.41%
Co 228.616†	48230.7	1.035	mg/L	0.0164	1.035	mg/L	0.0164	1.58%
Cr 205.552†	18716.7	1.032	mg/L	0.0173	1.032	mg/L	0.0173	1.67%
Cu324.754†	179129.9	1.031	mg/L	0.0131	1.031	mg/L	0.0131	1.27%
Fe238.204†	135510.4	1.039	mg/L	0.0127	1.039	mg/L	0.0127	1.23%
K 766.490†	16986.9	10.16	mg/L	0.185	10.16	mg/L	0.185	1.83%
Li 610.362†	279419.2	1.020	mg/L	0.0037	1.020	mg/L	0.0037	0.36%
Mg279.079†	14090.4	1.052	mg/L	0.0140	1.052	mg/L	0.0140	1.33%
Mn257.610†	1152664.7	1.030	mg/L	0.0006	1.030	mg/L	0.0006	0.06%
Mo202.030†	6251.3	1.025	mg/L	0.0043	1.025	mg/L	0.0043	0.42%
Na 589.592†	24153.0	10.31	mg/L	0.272	10.31	mg/L	0.272	2.63%
Ni231.604†	33465.8	1.026	mg/L	0.0114	1.026	mg/L	0.0114	1.11%
P 214.914†	1832.7	1.016	mg/L	0.0097	1.016	mg/L	0.0097	0.96%
Pb220.353†	8398.0	1.022	mg/L	0.0069	1.022	mg/L	0.0069	0.68%
Sb 206.833†	2514.3	1.017	mg/L	0.0006	1.017	mg/L	0.0006	0.06%
Se 196.026†	1517.9	1.018	mg/L	0.0058	1.018	mg/L	0.0058	0.57%
Si251.611†	233268.4	5.102	mg/L	0.0148	5.102	mg/L	0.0148	0.29%
Sn189.933†	4805.9	1.025	mg/L	0.0059	1.025	mg/L	0.0059	0.57%
Sr 421.552rad†	183659.5	1.030	mg/L	0.0271	1.030	mg/L	0.0271	2.63%
Ti 334.941†	1179378.0	1.036	mg/L	0.0012	1.036	mg/L	0.0012	0.12%
Tl 190.800†	1640.3	1.027	mg/L	0.0047	1.027	mg/L	0.0047	0.46%
V 292.402†	104465.0	1.036	mg/L	0.0040	1.036	mg/L	0.0040	0.38%
Zn 213.856†	93480.0	1.024	mg/L	0.0142	1.024	mg/L	0.0142	1.38%

Sequence No.: 2
Sample ID: SEQUENCE-CCB2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/1/2010 5:24:17 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: SEQUENCE-CCB2

Analyte	Back Pressure	Flow
All	270.0 kPa	0.60 L/min

Sb T

Mean Data: SEQUENCE-CCB2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5603075.3	99.28	%	1.899				1.91%
Ag328.068†	-169.7	-0.0015	mg/L	0.00035	-0.0015	mg/L	0.00035	23.03%
Al308.215†	311.9	0.0135	mg/L	0.00599	0.0135	mg/L	0.00599	44.54%
As188.979†	2.4	0.0016	mg/L	0.00086	0.0016	mg/L	0.00086	52.38%
B 249.773†	37.5	0.0010	mg/L	0.00028	0.0010	mg/L	0.00028	28.73%
Ba 233.527†	88.7	0.0005	mg/L	0.00025	0.0005	mg/L	0.00025	51.08%
Be 313.107†	210.5	0.0001	mg/L	0.00020	0.0001	mg/L	0.00020	254.20%
Ca 315.887†	1611.6	0.0094	mg/L	0.00085	0.0094	mg/L	0.00085	9.01%
Cd 214.438†	11.1	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	46.16%
Co 228.616†	0.2	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	591.14%
Cr 205.552†	51.2	0.0028	mg/L	0.00013	0.0028	mg/L	0.00013	4.76%
Cu324.754†	40.3	0.0002	mg/L	0.00017	0.0002	mg/L	0.00017	74.47%
Fe238.204†	2180.2	0.0167	mg/L	0.00049	0.0167	mg/L	0.00049	2.95%
K 766.490†	49.4	0.0295	mg/L	0.03188	0.0295	mg/L	0.03188	107.97%
Li 610.362†	-271.9	-0.0010	mg/L	0.00242	-0.0010	mg/L	0.00242	244.59%
Mg279.079†	69.4	0.0051	mg/L	0.00021	0.0051	mg/L	0.00021	4.04%
Mn257.610†	528.5	0.0005	mg/L	0.00014	0.0005	mg/L	0.00014	29.97%
Mo202.030†	18.0	0.0030	mg/L	0.00133	0.0030	mg/L	0.00133	45.03%
Na 589.592†	4.6	0.0020	mg/L	0.01102	0.0020	mg/L	0.01102	557.01%
Ni231.604†	59.7	0.0018	mg/L	0.00028	0.0018	mg/L	0.00028	15.36%
P 214.914†	4.3	0.0024	mg/L	0.00338	0.0024	mg/L	0.00338	142.62%
Pb220.353†	-1.3	-0.0002	mg/L	0.00067	-0.0002	mg/L	0.00067	444.13%
Sb 206.833†	34.9	0.0141	mg/L	0.00788	0.0141	mg/L	0.00788	55.91%
Se 196.026†	2.7	0.0018	mg/L	0.00121	0.0018	mg/L	0.00121	65.62%
Si251.611†	128.4	0.0026	mg/L	0.00151	0.0026	mg/L	0.00151	57.69%
Sn189.933†	20.5	0.0044	mg/L	0.00178	0.0044	mg/L	0.00178	40.70%
Sr 421.552rad†	62.1	0.0003	mg/L	0.00017	0.0003	mg/L	0.00017	47.50%
Ti 334.941†	475.8	0.0004	mg/L	0.00029	0.0004	mg/L	0.00029	70.34%
Tl 190.800†	0.0	0.0000	mg/L	0.00016	0.0000	mg/L	0.00016	547.66%
V 292.402†	27.7	0.0003	mg/L	0.00037	0.0003	mg/L	0.00037	124.17%
Zn 213.856†	22.5	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	21.82%

Sequence No.: 7
Sample ID: 10F0084-BLK1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 6/1/2010 5:38:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 10F0084-BLK1

Analyte	Back Pressure	Flow
All	272.0 kPa	0.60 L/min

Mean Data: 10F0084-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5414707.7	95.94	%	0.894				0.93%
Ag328.068†	-230.6	-0.0021	mg/L	0.00041	-0.0021	mg/L	0.00041	19.68%
Al308.215†	220.5	0.0095	mg/L	0.00140	0.0095	mg/L	0.00140	14.65%
As188.979†	-1.1	-0.0007	mg/L	0.00058	-0.0007	mg/L	0.00058	77.33%
B 249.773†	1475.4	0.0398	mg/L	0.00002	0.0398	mg/L	0.00002	0.06%
Ba 233.527†	62.1	0.0003	mg/L	0.00002	0.0003	mg/L	0.00002	6.49%
Be 313.107†	-558.0	-0.0002	mg/L	0.00003	-0.0002	mg/L	0.00003	14.09%
Ca 315.887†	4658.5	0.0270	mg/L	0.00034	0.0270	mg/L	0.00034	1.27%
Cd 214.438†	-11.6	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	42.06%
Co 228.616†	-0.6	0.0000	mg/L	0.00010	0.0000	mg/L	0.00010	802.34%
Cr 205.552†	6.9	0.0004	mg/L	0.00006	0.0004	mg/L	0.00006	16.36%
Cu324.754†	103.2	0.0006	mg/L	0.00000	0.0006	mg/L	0.00000	0.51%
Fe238.204†	881.0	0.0067	mg/L	0.00007	0.0067	mg/L	0.00007	0.99%
K 766.490†	1388.0	0.8297	mg/L	0.03548	0.8297	mg/L	0.03548	4.28%
Li 610.362†	282.5	0.0010	mg/L	0.00070	0.0010	mg/L	0.00070	67.58%
Mg279.079†	83.1	0.0060	mg/L	0.00473	0.0060	mg/L	0.00473	78.57%
Mn257.610†	920.6	0.0008	mg/L	0.00009	0.0008	mg/L	0.00009	11.03%
Mo202.030†	-5.4	-0.0009	mg/L	0.00019	-0.0009	mg/L	0.00019	21.58%
Na 589.592†	1714502.4	731.3	mg/L	1.20	731.3	mg/L	1.20	0.16%
Ni231.604†	59.7	0.0018	mg/L	0.00015	0.0018	mg/L	0.00015	8.17%
P 214.914†	11.1	0.0062	mg/L	0.00297	0.0062	mg/L	0.00297	48.02%
Pb220.353†	1.4	0.0002	mg/L	0.00114	0.0002	mg/L	0.00114	672.88%
Sb 206.833†	-4.6	-0.0015	mg/L	0.00017	-0.0015	mg/L	0.00017	11.57%
Se 196.026†	6.8	0.0045	mg/L	0.00007	0.0045	mg/L	0.00007	1.62%
Si251.611†	2826.0	0.0595	mg/L	0.00017	0.0595	mg/L	0.00017	0.28%
Sn189.933†	314.0	0.0669	mg/L	0.00224	0.0669	mg/L	0.00224	3.35%
Sr 421.552rad†	4094.2	0.0230	mg/L	0.00018	0.0230	mg/L	0.00018	0.78%
Ti 334.941†	-332.2	-0.0003	mg/L	0.00002	-0.0003	mg/L	0.00002	7.29%
Tl 190.800†	-1.2	-0.0007	mg/L	0.00225	-0.0007	mg/L	0.00225	309.26%
V 292.402†	34.2	0.0003	mg/L	0.00027	0.0003	mg/L	0.00027	81.40%
Zn 213.856†	275.8	0.0030	mg/L	0.00018	0.0030	mg/L	0.00018	5.90%

Sequence No.: 8
Sample ID: 10F0084-BS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 6/1/2010 5:41:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 10F0084-BS1

Analyte	Back Pressure	Flow
All	272.0 kPa	0.60 L/min

Mean Data: 10F0084-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5456973.7	96.69	%	0.999				1.03%
Ag328.068†	58723.9	0.5316	mg/L	0.00065	0.5316	mg/L	0.00065	0.12%
Al308.215†	22614.3	0.9964	mg/L	0.00645	0.9964	mg/L	0.00645	0.65%
As188.979†	1583.1	1.068	mg/L	0.0059	1.068	mg/L	0.0059	0.55%
B 249.773†	39248.9	1.059	mg/L	0.0046	1.059	mg/L	0.0046	0.43%
Ba 233.527†	180118.9	0.9910	mg/L	0.00457	0.9910	mg/L	0.00457	0.46%
Be 313.107†	2634675.3	1.006	mg/L	0.0027	1.006	mg/L	0.0027	0.26%
Ca 315.887†	180489.6	1.040	mg/L	0.0038	1.040	mg/L	0.0038	0.37%
Cd 214.438†	197310.9	1.004	mg/L	0.0014	1.004	mg/L	0.0014	0.14%
Co 228.616†	46275.8	0.9934	mg/L	0.00321	0.9934	mg/L	0.00321	0.32%
Cr 205.552†	18581.0	1.024	mg/L	0.0039	1.024	mg/L	0.0039	0.38%
Cu324.754†	180125.9	1.037	mg/L	0.0075	1.037	mg/L	0.0075	0.72%
Fe238.204†	130774.8	1.002	mg/L	0.0048	1.002	mg/L	0.0048	0.48%
K 766.490†	19153.7	11.45	mg/L	0.152	11.45	mg/L	0.152	1.32%
Li 610.362†	192691.4	0.7029	mg/L	0.00313	0.7029	mg/L	0.00313	0.45%
Mg279.079†	13236.9	0.9903	mg/L	0.00492	0.9903	mg/L	0.00492	0.50%
Mn257.610†	1103055.7	0.9858	mg/L	0.00422	0.9858	mg/L	0.00422	0.43%
Mo202.030†	6468.4	1.061	mg/L	0.0062	1.061	mg/L	0.0062	0.58%
Na 589.592†	1728563.1	737.3	mg/L	7.81	737.3	mg/L	7.81	1.06%
Ni231.604†	32232.3	0.9883	mg/L	0.00397	0.9883	mg/L	0.00397	0.40%
P 214.914†	1926.6	1.068	mg/L	0.0046	1.068	mg/L	0.0046	0.43%
Pb220.353†	8218.1	1.000	mg/L	0.0023	1.000	mg/L	0.0023	0.23%
Sb 206.833†	2562.3	1.037	mg/L	0.0057	1.037	mg/L	0.0057	0.55%
Se 196.026†	1543.9	1.035	mg/L	0.0016	1.035	mg/L	0.0016	0.15%
Si251.611†	227266.1	4.966	mg/L	0.0511	4.966	mg/L	0.0511	1.03%
Sn189.933†	5112.8	1.090	mg/L	0.0008	1.090	mg/L	0.0008	0.08%
Sr 421.552rad†	185332.3	1.039	mg/L	0.0058	1.039	mg/L	0.0058	0.55%
Ti 334.941†	1167757.6	1.025	mg/L	0.0064	1.025	mg/L	0.0064	0.63%
Tl 190.800†	1503.7	0.9418	mg/L	0.00617	0.9418	mg/L	0.00617	0.66%
V 292.402†	105819.5	1.049	mg/L	0.0056	1.049	mg/L	0.0056	0.54%
Zn 213.856†	90522.5	0.9915	mg/L	0.00450	0.9915	mg/L	0.00450	0.45%

Sequence No.: 9
Sample ID: ITE2408-01
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 6/1/2010 5:44:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ITE2408-01

Analyte	Back Pressure	Flow
All	273.0 kPa	0.60 L/min

Mean Data: ITE2408-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5620595.1	99.59	%	0.246				0.25%
Ag328.068†	-105.2	0.0008	mg/L	0.00012	0.0008	mg/L	0.00012	14.42%
Al308.215†	19751.1	0.8541	mg/L	0.00722	0.8541	mg/L	0.00722	0.85%
As188.979†	3.6	0.0027	mg/L	0.00216	0.0027	mg/L	0.00216	80.46%
B 249.773†	1727.1	0.0399	mg/L	0.00047	0.0399	mg/L	0.00047	1.18%
Ba 233.527†	63376.6	0.3483	mg/L	0.00074	0.3483	mg/L	0.00074	0.21%
Be 313.107†	-8.4	0.0000	mg/L	0.00015	0.0000	mg/L	0.00015	970.09%
Ca 315.887†	799700.2	4.684	mg/L	0.0037	4.684	mg/L	0.0037	0.08%
Cd 214.438†	33.6	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	6.90%
Co 228.616†	3377.7	0.0725	mg/L	0.00015	0.0725	mg/L	0.00015	0.20%
Cr 205.552†	851.5	0.0469	mg/L	0.00011	0.0469	mg/L	0.00011	0.23%
Cu324.754†	1937.2	0.0112	mg/L	0.00047	0.0112	mg/L	0.00047	4.24%
Fe238.204†	606346.8	4.639	mg/L	0.0297	4.639	mg/L	0.0297	0.64%
K 766.490†	1480.0	0.8868	mg/L	0.03910	0.8868	mg/L	0.03910	4.41%
Li 610.362†	-138.7	0.0002	mg/L	0.00122	0.0002	mg/L	0.00122	526.84%
Mg279.079†	150216.7	10.99	mg/L	0.010	10.99	mg/L	0.010	0.09%
Mn257.610†	1363243.3	1.218	mg/L	0.0014	1.218	mg/L	0.0014	0.11%
Mo202.030†	9.8	0.0014	mg/L	0.00022	0.0014	mg/L	0.00022	15.77%
Na 589.592†	1555146.7	663.3	mg/L	6.46	663.3	mg/L	6.46	0.97%
Ni231.604†	7325.1	0.2262	mg/L	0.00071	0.2262	mg/L	0.00071	0.32%
P 214.914†	236.3	0.1315	mg/L	0.00345	0.1315	mg/L	0.00345	2.62%
Pb220.353†	32.0	0.0036	mg/L	0.00038	0.0036	mg/L	0.00038	10.51%
Sb 206.833†	11.1	0.0040	mg/L	0.00376	0.0040	mg/L	0.00376	93.45%
Se 196.026†	-3.4	0.0001	mg/L	0.00410	0.0001	mg/L	0.00410	>999.9%
Si251.611†	135709.1	3.004	mg/L	0.0074	3.004	mg/L	0.0074	0.25%
Sn189.933†	306.8	0.0663	mg/L	0.00076	0.0663	mg/L	0.00076	1.15%
Sr 421.552rad†	10370.6	0.0581	mg/L	0.00036	0.0581	mg/L	0.00036	0.61%
Ti 334.941†	37950.8	0.0335	mg/L	0.00031	0.0335	mg/L	0.00031	0.92%
Tl 190.800†	-0.8	-0.0007	mg/L	0.00184	-0.0007	mg/L	0.00184	282.30%
V 292.402†	1446.4	0.0143	mg/L	0.00002	0.0143	mg/L	0.00002	0.12%
Zn 213.856†	1547.4	0.0152	mg/L	0.00004	0.0152	mg/L	0.00004	0.25%

Sequence No.: 10
Sample ID: 10F0084-MS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 6/1/2010 5:46:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 10F0084-MS1

Analyte	Back Pressure	Flow
All	274.0 kPa	0.60 L/min

Mean Data: 10F0084-MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5510468.8	97.64	%	3.459				3.54%
Ag328.068†	57801.8	0.5250	mg/L	0.00256	0.5250	mg/L	0.00256	0.49%
Al308.215†	42310.5	1.848	mg/L	0.0253	1.848	mg/L	0.0253	1.37%
As188.979†	1542.1	1.041	mg/L	0.0086	1.041	mg/L	0.0086	0.82%
B 249.773†	39619.1	1.062	mg/L	0.0083	1.062	mg/L	0.0083	0.78%
Ba 233.527†	242863.5	1.336	mg/L	0.0041	1.336	mg/L	0.0041	0.30%
Be 313.107†	2635672.0	1.006	mg/L	0.0031	1.006	mg/L	0.0031	0.31%
Ca 315.887†	984130.4	5.748	mg/L	0.0562	5.748	mg/L	0.0562	0.98%
Cd 214.438†	193874.7	0.9863	mg/L	0.00038	0.9863	mg/L	0.00038	0.04%
Co 228.616†	48846.3	1.049	mg/L	0.0067	1.049	mg/L	0.0067	0.64%
Cr 205.552†	19076.0	1.052	mg/L	0.0006	1.052	mg/L	0.0006	0.05%
Cu324.754†	178311.3	1.027	mg/L	0.0071	1.027	mg/L	0.0071	0.69%
Fe238.204†	747349.1	5.720	mg/L	0.0505	5.720	mg/L	0.0505	0.88%
K 766.490†	19701.0	11.78	mg/L	0.437	11.78	mg/L	0.437	3.71%
Li 610.362†	193435.2	0.7063	mg/L	0.00733	0.7063	mg/L	0.00733	1.04%
Mg279.079†	162070.2	11.88	mg/L	0.010	11.88	mg/L	0.010	0.08%
Mn257.610†	2455687.0	2.195	mg/L	0.0245	2.195	mg/L	0.0245	1.12%
Mo202.030†	6281.9	1.030	mg/L	0.0116	1.030	mg/L	0.0116	1.12%
Na 589.592†	1618449.3	690.3	mg/L	17.65	690.3	mg/L	17.65	2.56%
Ni231.604†	38908.6	1.195	mg/L	0.0021	1.195	mg/L	0.0021	0.18%
P 214.914†	2107.7	1.169	mg/L	0.0159	1.169	mg/L	0.0159	1.36%
Pb220.353†	7993.2	0.9726	mg/L	0.01006	0.9726	mg/L	0.01006	1.03%
Sb 206.833†	2501.8	1.012	mg/L	0.0085	1.012	mg/L	0.0085	0.84%
Se 196.026†	1480.9	0.9955	mg/L	0.00678	0.9955	mg/L	0.00678	0.68%
Si251.611†	359900.3	7.906	mg/L	0.0923	7.906	mg/L	0.0923	1.17%
Sn189.933†	4942.5	1.055	mg/L	0.0115	1.055	mg/L	0.0115	1.09%
Sr 421.552rad†	196531.1	1.102	mg/L	0.0404	1.102	mg/L	0.0404	3.67%
Ti 334.941†	1202328.4	1.056	mg/L	0.0118	1.056	mg/L	0.0118	1.11%
Tl 190.800†	1468.7	0.9198	mg/L	0.00610	0.9198	mg/L	0.00610	0.66%
V 292.402†	105065.1	1.042	mg/L	0.0033	1.042	mg/L	0.0033	0.32%
Zn 213.856†	90399.1	0.9884	mg/L	0.00107	0.9884	mg/L	0.00107	0.11%

Sequence No.: 11
Sample ID: 10F0084-MSD1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 6/1/2010 5:49:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 10F0084-MSD1

Analyte	Back Pressure	Flow
All	269.0 kPa	0.60 L/min

Mean Data: 10F0084-MSD1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5412217.8	95.90	%	0.787				0.82%
Ag328.068†	57547.7	0.5227	mg/L	0.00066	0.5227	mg/L	0.00066	0.13%
Al308.215†	42374.4	1.851	mg/L	0.0011	1.851	mg/L	0.0011	0.06%
As188.979†	1572.1	1.061	mg/L	0.0175	1.061	mg/L	0.0175	1.65%
B 249.773†	39892.9	1.069	mg/L	0.0068	1.069	mg/L	0.0068	0.63%
Ba 233.527†	242601.8	1.334	mg/L	0.0043	1.334	mg/L	0.0043	0.32%
Be 313.107†	2623126.6	1.001	mg/L	0.0101	1.001	mg/L	0.0101	1.01%
Ca 315.887†	990499.1	5.785	mg/L	0.0625	5.785	mg/L	0.0625	1.08%
Cd 214.438†	192989.8	0.9818	mg/L	0.00364	0.9818	mg/L	0.00364	0.37%
Co 228.616†	48957.1	1.051	mg/L	0.0008	1.051	mg/L	0.0008	0.08%
Cr 205.552†	19012.5	1.048	mg/L	0.0023	1.048	mg/L	0.0023	0.22%
Cu324.754†	179354.3	1.033	mg/L	0.0010	1.033	mg/L	0.0010	0.10%
Fe238.204†	752717.3	5.761	mg/L	0.0968	5.761	mg/L	0.0968	1.68%
K 766.490†	19032.4	11.38	mg/L	0.038	11.38	mg/L	0.038	0.33%
Li 610.362†	194609.6	0.7106	mg/L	0.00147	0.7106	mg/L	0.00147	0.21%
Mg279.079†	162015.6	11.88	mg/L	0.009	11.88	mg/L	0.009	0.08%
Mn257.610†	2472478.5	2.210	mg/L	0.0205	2.210	mg/L	0.0205	0.93%
Mo202.030†	6430.3	1.054	mg/L	0.0135	1.054	mg/L	0.0135	1.28%
Na 589.592†	1583022.6	675.2	mg/L	3.07	675.2	mg/L	3.07	0.45%
Ni231.604†	39015.9	1.198	mg/L	0.0021	1.198	mg/L	0.0021	0.17%
P 214.914†	2137.2	1.185	mg/L	0.0221	1.185	mg/L	0.0221	1.87%
Pb220.353†	8184.8	0.9960	mg/L	0.01542	0.9960	mg/L	0.01542	1.55%
Sb 206.833†	2569.7	1.040	mg/L	0.0169	1.040	mg/L	0.0169	1.62%
Se 196.026†	1518.1	1.020	mg/L	0.0193	1.020	mg/L	0.0193	1.89%
Si251.611†	359920.2	7.905	mg/L	0.0896	7.905	mg/L	0.0896	1.13%
Sn189.933†	5056.4	1.079	mg/L	0.0155	1.079	mg/L	0.0155	1.44%
Sr 421.552rad†	190158.2	1.066	mg/L	0.0052	1.066	mg/L	0.0052	0.48%
Ti 334.941†	1212332.1	1.064	mg/L	0.0070	1.064	mg/L	0.0070	0.66%
Tl 190.800†	1495.1	0.9363	mg/L	0.01359	0.9363	mg/L	0.01359	1.45%
V 292.402†	105925.4	1.050	mg/L	0.0125	1.050	mg/L	0.0125	1.19%
Zn 213.856†	90289.4	0.9872	mg/L	0.00123	0.9872	mg/L	0.00123	0.13%

Sequence No.: 13
Sample ID: SEQUENCE-CCV3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/1/2010 5:55:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: SEQUENCE-CCV3

Analyte	Back Pressure	Flow
All	276.0 kPa	0.60 L/min

Mean Data: SEQUENCE-CCV3

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5948695.2	105.4	%	0.47				0.44%
Ag328.068†	55756.2	0.5048	mg/L	0.00869	0.5048	mg/L	0.00869	1.72%
Al308.215†	23084.9	1.016	mg/L	0.0045	1.016	mg/L	0.0045	0.44%
As188.979†	1497.8	1.011	mg/L	0.0045	1.011	mg/L	0.0045	0.44%
B 249.773†	36896.9	0.9951	mg/L	0.00236	0.9951	mg/L	0.00236	0.24%
Ba 233.527†	182226.4	1.003	mg/L	0.0071	1.003	mg/L	0.0071	0.71%
Be 313.107†	2622495.8	1.001	mg/L	0.0037	1.001	mg/L	0.0037	0.37%
Ca 315.887†	1702752.3	9.966	mg/L	0.0605	9.966	mg/L	0.0605	0.61%
Cd 214.438†	196783.7	1.001	mg/L	0.0075	1.001	mg/L	0.0075	0.75%
Co 228.616†	46590.5	1.000	mg/L	0.0056	1.000	mg/L	0.0056	0.56%
Cr 205.552†	18153.3	1.001	mg/L	0.0166	1.001	mg/L	0.0166	1.66%
Cu324.754†	173076.3	0.9966	mg/L	0.00954	0.9966	mg/L	0.00954	0.96%
Fe238.204†	130702.9	1.002	mg/L	0.0015	1.002	mg/L	0.0015	0.15%
K 766.490†	16821.5	10.06	mg/L	0.060	10.06	mg/L	0.060	0.60%
Li 610.362†	271295.0	0.9901	mg/L	0.00731	0.9901	mg/L	0.00731	0.74%
Mg279.079†	13611.8	1.017	mg/L	0.0061	1.017	mg/L	0.0061	0.60%
Mn257.610†	1119461.7	1.000	mg/L	0.0063	1.000	mg/L	0.0063	0.63%
Mo202.030†	6147.2	1.008	mg/L	0.0067	1.008	mg/L	0.0067	0.66%
Na 589.592†	24651.9	10.52	mg/L	0.105	10.52	mg/L	0.105	0.99%
Ni231.604†	32374.1	0.9927	mg/L	0.01001	0.9927	mg/L	0.01001	1.01%
P 214.914†	1801.4	0.9985	mg/L	0.00058	0.9985	mg/L	0.00058	0.06%
Pb220.353†	8248.7	1.004	mg/L	0.0033	1.004	mg/L	0.0033	0.33%
Sb 206.833†	2481.4	1.004	mg/L	0.0125	1.004	mg/L	0.0125	1.24%
Se 196.026†	1488.1	0.9982	mg/L	0.00312	0.9982	mg/L	0.00312	0.31%
Si251.611†	227690.0	4.980	mg/L	0.0400	4.980	mg/L	0.0400	0.80%
Sn189.933†	4726.6	1.008	mg/L	0.0032	1.008	mg/L	0.0032	0.32%
Sr 421.552rad†	181652.5	1.019	mg/L	0.0050	1.019	mg/L	0.0050	0.49%
Ti 334.941†	1137867.1	0.9993	mg/L	0.00767	0.9993	mg/L	0.00767	0.77%
Tl 190.800†	1598.1	1.001	mg/L	0.0045	1.001	mg/L	0.0045	0.45%
V 292.402†	101497.4	1.006	mg/L	0.0110	1.006	mg/L	0.0110	1.09%
Zn 213.856†	90285.4	0.9887	mg/L	0.00743	0.9887	mg/L	0.00743	0.75%

Sequence No.: 14
Sample ID: SEQUENCE-CCB3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/1/2010 5:58:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: SEQUENCE-CCB3

Sb/T

Analyte	Back Pressure	Flow
All	272.0 kPa	0.60 L/min

Mean Data: SEQUENCE-CCB3

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5747901.0	101.8	%	0.20				0.20%
Ag328.068†	100.8	0.0009	mg/L	0.00010	0.0009	mg/L	0.00010	10.41%
Al308.215†	213.6	0.0092	mg/L	0.00345	0.0092	mg/L	0.00345	37.47%
As188.979†	-0.8	-0.0006	mg/L	0.00105	-0.0006	mg/L	0.00105	187.42%
B 249.773†	45.3	0.0012	mg/L	0.00037	0.0012	mg/L	0.00037	30.81%
Ba 233.527†	55.9	0.0003	mg/L	0.00014	0.0003	mg/L	0.00014	46.74%
Be 313.107†	18.2	0.0000	mg/L	0.00014	0.0000	mg/L	0.00014	>999.9%
Ca 315.887†	1564.3	0.0091	mg/L	0.00044	0.0091	mg/L	0.00044	4.81%
Cd 214.438†	17.0	0.0001	mg/L	0.00003	0.0001	mg/L	0.00003	35.49%
Co 228.616†	-1.3	0.0000	mg/L	0.00008	0.0000	mg/L	0.00008	272.29%
Cr 205.552†	50.7	0.0028	mg/L	0.00006	0.0028	mg/L	0.00006	2.01%
Cu324.754†	-112.0	-0.0006	mg/L	0.00000	-0.0006	mg/L	0.00000	0.75%
Fe238.204†	2213.3	0.0169	mg/L	0.00028	0.0169	mg/L	0.00028	1.66%
K 766.490†	53.0	0.0317	mg/L	0.00294	0.0317	mg/L	0.00294	9.28%
Li 610.362†	320.4	0.0012	mg/L	0.00014	0.0012	mg/L	0.00014	12.18%
Mg279.079†	88.3	0.0065	mg/L	0.00444	0.0065	mg/L	0.00444	68.21%
Mn257.610†	490.1	0.0004	mg/L	0.00008	0.0004	mg/L	0.00008	18.11%
Mo202.030†	18.1	0.0030	mg/L	0.00121	0.0030	mg/L	0.00121	40.75%
Na 589.592†	598.5	0.2553	mg/L	0.00790	0.2553	mg/L	0.00790	3.09%
Ni231.604†	64.6	0.0020	mg/L	0.00001	0.0020	mg/L	0.00001	0.58%
P 214.914†	6.8	0.0038	mg/L	0.00108	0.0038	mg/L	0.00108	28.79%
Pb220.353†	0.0	0.0000	mg/L	0.00011	0.0000	mg/L	0.00011	>999.9%
Sb 206.833†	31.8	0.0129	mg/L	0.00707	0.0129	mg/L	0.00707	54.99%
Se 196.026†	2.7	0.0018	mg/L	0.00517	0.0018	mg/L	0.00517	285.98%
Si251.611†	144.6	0.0030	mg/L	0.00034	0.0030	mg/L	0.00034	11.32%
Sn189.933†	19.1	0.0041	mg/L	0.00118	0.0041	mg/L	0.00118	29.05%
Sr 421.552rad†	79.0	0.0004	mg/L	0.00009	0.0004	mg/L	0.00009	19.93%
Ti 334.941†	323.4	0.0003	mg/L	0.00047	0.0003	mg/L	0.00047	165.79%
Tl 190.800†	3.0	0.0018	mg/L	0.00139	0.0018	mg/L	0.00139	75.22%
V 292.402†	67.3	0.0007	mg/L	0.00066	0.0007	mg/L	0.00066	95.63%
Zn 213.856†	5.8	0.0001	mg/L	0.00016	0.0001	mg/L	0.00016	322.42%

Analysis Begun

Start Time: 6/1/2010 6:11:36 PM
Plasma On Time: 6/1/2010 7:26:41 AM
Logged In Analyst: irvinorg
Technique: ICP Continuous
Spectrometer Model: Optima 5300 DV, S/N 077N5112802Autosampler Model: AS-93plus

Sample Information File: C:\pe\inorg\Sample Information\100601-2.sif
Batch ID:
Results Data Set: 100601-2
Results Library: C:\pe\inorg\Results\Results.mdb

Sequence No.: 1
Autosampler Location: 21
Sample ID: ITE2408-02
Date Collected: 6/1/2010 6:11:38 PM
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Nebulizer Parameters: ITE2408-02

Analyte	Back Pressure	Flow
All	270.0 kPa	0.60 L/min

Mean Data: ITE2408-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5452193.7	96.61	%	0.624				0.65%
Ag328.068†	-871.1	-0.0009	mg/L	0.00019	-0.0009	mg/L	0.00019	21.06%
Al308.215†	60355.5	2.605	mg/L	0.0064	2.605	mg/L	0.0064	0.24%
As188.979†	-0.7	0.0008	mg/L	0.00028	0.0008	mg/L	0.00028	32.87%
B 249.773†	4139.2	0.0848	mg/L	0.00193	0.0848	mg/L	0.00193	2.27%
Ba 233.527†	108106.3	0.5941	mg/L	0.00231	0.5941	mg/L	0.00231	0.39%
Be 313.107†	113.6	0.0000	mg/L	0.00009	0.0000	mg/L	0.00009	414.38%
Ca 315.887†	1226523.2	7.162	mg/L	0.0320	7.162	mg/L	0.0320	0.45%
Cd 214.438†	75.4	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	5.51%
Co 228.616†	4005.7	0.0860	mg/L	0.00105	0.0860	mg/L	0.00105	1.22%
Cr 205.552†	3718.9	0.2045	mg/L	0.00151	0.2045	mg/L	0.00151	0.74%
Cu324.754†	4856.5	0.0280	mg/L	0.00025	0.0280	mg/L	0.00025	0.89%
Fe238.204†	2426472.9	18.56	mg/L	0.015	18.56	mg/L	0.015	0.08%
K 766.490†	2365.3	1.421	mg/L	0.0176	1.421	mg/L	0.0176	1.24%
Li 610.362†	-323.4	0.0003	mg/L	0.00112	0.0003	mg/L	0.00112	376.16%
Mg279.079†	1209667.0	88.52	mg/L	0.815	88.52	mg/L	0.815	0.92%
Mn257.610†	7428398.0	6.639	mg/L	0.0162	6.639	mg/L	0.0162	0.24%
Mo202.030†	16.9	0.0018	mg/L	0.00015	0.0018	mg/L	0.00015	8.64%
Na 589.592†	1557769.3	664.4	mg/L	4.27	664.4	mg/L	4.27	0.64%
Ni231.604†	26323.6	0.8138	mg/L	0.00458	0.8138	mg/L	0.00458	0.56%
P 214.914†	248.0	0.1376	mg/L	0.00006	0.1376	mg/L	0.00006	0.05%
Pb220.353†	53.6	0.0055	mg/L	0.00124	0.0055	mg/L	0.00124	22.38%
Sb 206.833†	7.4	-0.0014	mg/L	0.00095	-0.0014	mg/L	0.00095	68.94%
Se 196.026†	-10.7	0.0023	mg/L	0.00023	0.0023	mg/L	0.00023	10.01%
Si251.611†	293627.8	6.505	mg/L	0.2098	6.505	mg/L	0.2098	3.22%
Sn189.933†	296.2	0.0672	mg/L	0.00075	0.0672	mg/L	0.00075	1.11%
Sr 421.552rad†	26637.3	0.1493	mg/L	0.00024	0.1493	mg/L	0.00024	0.16%
Ti 334.941†	67618.1	0.0596	mg/L	0.00026	0.0596	mg/L	0.00026	0.44%
Tl 190.800†	-3.3	-0.0035	mg/L	0.00187	-0.0035	mg/L	0.00187	53.08%
V 292.402†	2770.1	0.0277	mg/L	0.00001	0.0277	mg/L	0.00001	0.04%
Zn 213.856†	4123.0	0.0388	mg/L	0.00060	0.0388	mg/L	0.00060	1.56%

Sequence No.: 2
Sample ID: ITE2408-03
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 6/1/2010 6:14:36 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ITE2408-03

Analyte	Back Pressure	Flow
All	273.0 kPa	0.60 L/min

Mean Data: ITE2408-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5553488.8	98.40	%	0.347				0.35%
Ag328.068†	-316.2	-0.0016	mg/L	0.00163	-0.0016	mg/L	0.00163	104.31%
Al308.215†	53032.4	2.294	mg/L	0.0357	2.294	mg/L	0.0357	1.55%
As188.979†	4.8	0.0032	mg/L	0.00223	0.0032	mg/L	0.00223	68.71%
B 249.773†	1708.7	0.0414	mg/L	0.00028	0.0414	mg/L	0.00028	0.68%
Ba 233.527†	87131.7	0.4789	mg/L	0.00855	0.4789	mg/L	0.00855	1.78%
Be 313.107†	192.7	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	101.40%
Ca 315.887†	1782275.4	10.45	mg/L	0.071	10.45	mg/L	0.071	0.68%
Cd 214.438†	4.5	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	109.57%
Co 228.616†	1030.8	0.0220	mg/L	0.00000	0.0220	mg/L	0.00000	0.00%
Cr 205.552†	370.1	0.0205	mg/L	0.00019	0.0205	mg/L	0.00019	0.93%
Cu324.754†	2632.6	0.0152	mg/L	0.00003	0.0152	mg/L	0.00003	0.18%
Fe238.204†	424218.7	3.246	mg/L	0.0206	3.246	mg/L	0.0206	0.63%
K 766.490†	2442.7	1.459	mg/L	0.0450	1.459	mg/L	0.0450	3.08%
Li 610.362†	-1074.4	-0.0025	mg/L	0.00078	-0.0025	mg/L	0.00078	31.31%
Mg279.079†	126129.1	9.228	mg/L	0.1927	9.228	mg/L	0.1927	2.09%
Mn257.610†	538889.5	0.4816	mg/L	0.00159	0.4816	mg/L	0.00159	0.33%
Mo202.030†	0.4	-0.0001	mg/L	0.00011	-0.0001	mg/L	0.00011	106.53%
Na 589.592†	1598986.4	682.0	mg/L	0.37	682.0	mg/L	0.37	0.05%
Ni231.604†	2545.5	0.0792	mg/L	0.00067	0.0792	mg/L	0.00067	0.84%
P 214.914†	427.0	0.2384	mg/L	0.00227	0.2384	mg/L	0.00227	0.95%
Pb220.353†	44.9	0.0052	mg/L	0.00086	0.0052	mg/L	0.00086	16.38%
Sb 206.833†	-2.9	-0.0013	mg/L	0.00111	-0.0013	mg/L	0.00111	87.58%
Se 196.026†	-0.6	0.0015	mg/L	0.00373	0.0015	mg/L	0.00373	251.67%
Si251.611†	128386.1	2.840	mg/L	0.0703	2.840	mg/L	0.0703	2.48%
Sn189.933†	307.6	0.0660	mg/L	0.00016	0.0660	mg/L	0.00016	0.24%
Sr 421.552rad†	22636.5	0.1268	mg/L	0.00115	0.1268	mg/L	0.00115	0.91%
Ti 334.941†	76615.3	0.0676	mg/L	0.00128	0.0676	mg/L	0.00128	1.89%
Tl 190.800†	-3.1	-0.0018	mg/L	0.00237	-0.0018	mg/L	0.00237	130.98%
V 292.402†	1173.1	0.0115	mg/L	0.00023	0.0115	mg/L	0.00023	2.01%
Zn 213.856†	10334.3	0.1130	mg/L	0.00079	0.1130	mg/L	0.00079	0.70%

Sequence No.: 3
Sample ID: ITE2408-04
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 6/1/2010 6:17:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ITE2408-04

Analyte	Back Pressure	Flow
All	273.0 kPa	0.60 L/min

Mean Data: ITE2408-04

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5652730.9	100.2	%	0.66				0.66%
Ag328.068†	-224.2	-0.0007	mg/L	0.00303	-0.0007	mg/L	0.00303	416.57%
Al308.215†	15099.9	0.6525	mg/L	0.00343	0.6525	mg/L	0.00343	0.53%
As188.979†	3.8	0.0026	mg/L	0.00009	0.0026	mg/L	0.00009	3.50%
B 249.773†	1619.1	0.0391	mg/L	0.00042	0.0391	mg/L	0.00042	1.07%
Ba 233.527†	44489.5	0.2445	mg/L	0.00213	0.2445	mg/L	0.00213	0.87%
Be 313.107†	-87.8	0.0000	mg/L	0.00007	0.0000	mg/L	0.00007	208.09%
Ca 315.887†	1684606.2	9.872	mg/L	0.0835	9.872	mg/L	0.0835	0.85%
Cd 214.438†	10.1	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	47.77%
Co 228.616†	2543.0	0.0547	mg/L	0.00058	0.0547	mg/L	0.00058	1.06%
Cr 205.552†	382.4	0.0212	mg/L	0.00027	0.0212	mg/L	0.00027	1.30%
Cu324.754†	3814.0	0.0220	mg/L	0.00011	0.0220	mg/L	0.00011	0.51%
Fe238.204†	421945.5	3.228	mg/L	0.0432	3.228	mg/L	0.0432	1.34%
K 766.490†	1871.9	1.120	mg/L	0.0247	1.120	mg/L	0.0247	2.20%
Li 610.362†	-223.1	0.0005	mg/L	0.00088	0.0005	mg/L	0.00088	161.21%
Mg279.079†	144831.8	10.60	mg/L	0.013	10.60	mg/L	0.013	0.12%
Mn257.610†	1119074.5	1.000	mg/L	0.0071	1.000	mg/L	0.0071	0.71%
Mo202.030†	1.9	0.0001	mg/L	0.00052	0.0001	mg/L	0.00052	379.19%
Na 589.592†	1573266.6	671.0	mg/L	7.72	671.0	mg/L	7.72	1.15%
Ni231.604†	8496.4	0.2618	mg/L	0.00273	0.2618	mg/L	0.00273	1.04%
P 214.914†	195.0	0.1089	mg/L	0.00222	0.1089	mg/L	0.00222	2.04%
Pb220.353†	56.1	0.0066	mg/L	0.00025	0.0066	mg/L	0.00025	3.73%
Sb 206.833†	-4.5	-0.0019	mg/L	0.00027	-0.0019	mg/L	0.00027	14.23%
Se 196.026†	-0.1	0.0018	mg/L	0.00132	0.0018	mg/L	0.00132	73.29%
Si251.611†	91040.1	2.014	mg/L	0.0090	2.014	mg/L	0.0090	0.45%
Sn189.933†	312.4	0.0670	mg/L	0.00025	0.0670	mg/L	0.00025	0.38%
Sr 421.552rad†	11816.1	0.0662	mg/L	0.00066	0.0662	mg/L	0.00066	1.00%
Ti 334.941†	2962.4	0.0030	mg/L	0.00025	0.0030	mg/L	0.00025	8.52%
Tl 190.800†	-0.1	-0.0003	mg/L	0.00128	-0.0003	mg/L	0.00128	391.02%
V 292.402†	870.3	0.0086	mg/L	0.00009	0.0086	mg/L	0.00009	0.99%
Zn 213.856†	921.3	0.0081	mg/L	0.00016	0.0081	mg/L	0.00016	1.93%

Sequence No.: 4
Sample ID: ITE2408-05
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 6/1/2010 6:20:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ITE2408-05

Analyte	Back Pressure	Flow
All	274.0 kPa	0.60 L/min

Mean Data: ITE2408-05

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5569967.0	98.69	%	3.172				3.21%
Ag328.068†	-393.7	-0.0021	mg/L	0.00113	-0.0021	mg/L	0.00113	54.56%
Al308.215†	41069.6	1.775	mg/L	0.0299	1.775	mg/L	0.0299	1.69%
As188.979†	-0.9	-0.0011	mg/L	0.00078	-0.0011	mg/L	0.00078	69.66%
B 249.773†	1530.7	0.0375	mg/L	0.00094	0.0375	mg/L	0.00094	2.50%
Ba 233.527†	113871.9	0.6258	mg/L	0.00791	0.6258	mg/L	0.00791	1.26%
Be 313.107†	-46.6	0.0000	mg/L	0.00006	0.0000	mg/L	0.00006	254.01%
Ca 315.887†	8832077.6	51.78	mg/L	0.572	51.78	mg/L	0.572	1.10%
Cd 214.438†	-14.7	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	15.75%
Co 228.616†	1187.9	0.0255	mg/L	0.00057	0.0255	mg/L	0.00057	2.24%
Cr 205.552†	828.6	0.0466	mg/L	0.00061	0.0466	mg/L	0.00061	1.30%
Cu324.754†	1822.3	0.0105	mg/L	0.00047	0.0105	mg/L	0.00047	4.52%
Fe238.204†	346151.7	2.648	mg/L	0.0438	2.648	mg/L	0.0438	1.65%
K 766.490†	2010.4	1.200	mg/L	0.0884	1.200	mg/L	0.0884	7.36%
Li 610.362†	-1059.3	0.0027	mg/L	0.00209	0.0027	mg/L	0.00209	76.81%
Saturated outside survey window (code 6)								
Mg279.079†	70008.4	5.122	mg/L	0.0436	5.122	mg/L	0.0436	0.85%
Mn257.610†	450453.6	0.4025	mg/L	0.00464	0.4025	mg/L	0.00464	1.15%
Mo202.030†	9.5	0.0014	mg/L	0.00003	0.0014	mg/L	0.00003	2.21%
Na 589.592†	1552293.1	662.1	mg/L	18.49	662.1	mg/L	18.49	2.79%
Ni231.604†	2576.1	0.0799	mg/L	0.00138	0.0799	mg/L	0.00138	1.73%
P 214.914†	254.4	0.1420	mg/L	0.00181	0.1420	mg/L	0.00181	1.28%
Pb220.353†	44.9	0.0058	mg/L	0.00061	0.0058	mg/L	0.00061	10.57%
Sb 206.833†	-3.6	-0.0018	mg/L	0.00156	-0.0018	mg/L	0.00156	86.46%
Se 196.026†	-15.4	-0.0074	mg/L	0.00192	-0.0074	mg/L	0.00192	25.94%
Si251.611†	145871.1	3.228	mg/L	0.0473	3.228	mg/L	0.0473	1.47%
Sn189.933†	324.3	0.0682	mg/L	0.00147	0.0682	mg/L	0.00147	2.15%
Sr 421.552rad†	16884.9	0.0941	mg/L	0.00456	0.0941	mg/L	0.00456	4.85%
Ti 334.941†	19031.5	0.0186	mg/L	0.00016	0.0186	mg/L	0.00016	0.86%
Tl 190.800†	-2.8	-0.0018	mg/L	0.00169	-0.0018	mg/L	0.00169	94.10%
V 292.402†	1017.6	0.0101	mg/L	0.00020	0.0101	mg/L	0.00020	1.99%
Zn 213.856†	1813.4	0.0185	mg/L	0.00064	0.0185	mg/L	0.00064	3.46%

Sequence No.: 5
Sample ID: ITE2408-06
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 6/1/2010 6:23:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ITE2408-06

Analyte	Back Pressure	Flow
All	270.0 kPa	0.60 L/min

Mean Data: ITE2408-06

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5478299.8	97.07	%	2.173				2.24%
Ag328.068†	-392.4	-0.0021	mg/L	0.00052	-0.0021	mg/L	0.00052	24.35%
Al308.215†	10460.2	0.4510	mg/L	0.00674	0.4510	mg/L	0.00674	1.49%
As188.979†	-1.6	-0.0010	mg/L	0.00079	-0.0010	mg/L	0.00079	77.99%
B 249.773†	1596.6	0.0379	mg/L	0.00137	0.0379	mg/L	0.00137	3.61%
Ba 233.527†	80796.4	0.4440	mg/L	0.00493	0.4440	mg/L	0.00493	1.11%
Be 313.107†	307.4	0.0001	mg/L	0.00010	0.0001	mg/L	0.00010	81.33%
Ca 315.887†	1386290.6	8.122	mg/L	0.0692	8.122	mg/L	0.0692	0.85%
Cd 214.438†	48.0	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	1.12%
Co 228.616†	2656.7	0.0571	mg/L	0.00129	0.0571	mg/L	0.00129	2.25%
Cr 205.552†	55.4	0.0031	mg/L	0.00018	0.0031	mg/L	0.00018	5.99%
Cu324.754†	3896.6	0.0224	mg/L	0.00076	0.0224	mg/L	0.00076	3.40%
Fe238.204†	471156.5	3.605	mg/L	0.0276	3.605	mg/L	0.0276	0.77%
K 766.490†	1612.6	0.9672	mg/L	0.11333	0.9672	mg/L	0.11333	11.72%
Li 610.362†	-1001.0	-0.0025	mg/L	0.00187	-0.0025	mg/L	0.00187	75.07%
Mg279.079†	167600.1	12.27	mg/L	0.144	12.27	mg/L	0.144	1.18%
Mn257.610†	2265018.8	2.024	mg/L	0.0168	2.024	mg/L	0.0168	0.83%
Mo202.030†	-0.8	-0.0003	mg/L	0.00027	-0.0003	mg/L	0.00027	83.01%
Na 589.592†	1573358.4	671.1	mg/L	22.11	671.1	mg/L	22.11	3.30%
Ni231.604†	12355.6	0.3804	mg/L	0.00681	0.3804	mg/L	0.00681	1.79%
P 214.914†	113.6	0.0642	mg/L	0.00058	0.0642	mg/L	0.00058	0.91%
Pb220.353†	66.3	0.0078	mg/L	0.00078	0.0078	mg/L	0.00078	10.02%
Sb 206.833†	-8.7	-0.0034	mg/L	0.00042	-0.0034	mg/L	0.00042	12.31%
Se 196.026†	-7.7	-0.0032	mg/L	0.00056	-0.0032	mg/L	0.00056	17.72%
Si251.611†	43483.4	0.9619	mg/L	0.01564	0.9619	mg/L	0.01564	1.63%
Sn189.933†	306.7	0.0659	mg/L	0.00326	0.0659	mg/L	0.00326	4.94%
Sr 421.552rad†	17756.2	0.0995	mg/L	0.00103	0.0995	mg/L	0.00103	1.03%
Ti 334.941†	430.9	0.0007	mg/L	0.00001	0.0007	mg/L	0.00001	1.96%
Tl 190.800†	-4.7	-0.0032	mg/L	0.00044	-0.0032	mg/L	0.00044	13.63%
V 292.402†	697.1	0.0069	mg/L	0.00009	0.0069	mg/L	0.00009	1.24%
Zn 213.856†	4301.1	0.0446	mg/L	0.00135	0.0446	mg/L	0.00135	3.04%

Sequence No.: 6
Sample ID: ITE2408-07
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 6/1/2010 6:26:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ITE2408-07

Analyte	Back Pressure	Flow
All	274.0 kPa	0.60 L/min

Mean Data: ITE2408-07

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5646193.2	100.0	%	0.44				0.44%
Ag328.068†	-308.9	0.0004	mg/L	0.00024	0.0004	mg/L	0.00024	57.73%
Al308.215†	29283.8	1.266	mg/L	0.0101	1.266	mg/L	0.0101	0.80%
As188.979†	-3.7	-0.0019	mg/L	0.00177	-0.0019	mg/L	0.00177	91.91%
B 249.773†	2547.9	0.0566	mg/L	0.00049	0.0566	mg/L	0.00049	0.87%
Ba 233.527†	24656.9	0.1355	mg/L	0.00122	0.1355	mg/L	0.00122	0.90%
Be 313.107†	193.7	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	16.57%
Ca 315.887†	1102414.4	6.454	mg/L	0.0455	6.454	mg/L	0.0455	0.70%
Cd 214.438†	34.3	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	17.83%
Co 228.616†	5284.3	0.1136	mg/L	0.00168	0.1136	mg/L	0.00168	1.47%
Cr 205.552†	1567.9	0.0863	mg/L	0.00097	0.0863	mg/L	0.00097	1.12%
Cu324.754†	1228.5	0.0071	mg/L	0.00035	0.0071	mg/L	0.00035	4.98%
Fe238.204†	1102111.9	8.432	mg/L	0.0417	8.432	mg/L	0.0417	0.49%
K 766.490†	1691.0	1.016	mg/L	0.0161	1.016	mg/L	0.0161	1.58%
Li 610.362†	-916.3	-0.0023	mg/L	0.00011	-0.0023	mg/L	0.00011	5.04%
Mg279.079†	308216.8	22.55	mg/L	0.167	22.55	mg/L	0.167	0.74%
Mn257.610†	754486.2	0.6743	mg/L	0.00394	0.6743	mg/L	0.00394	0.58%
Mo202.030†	-1.4	-0.0007	mg/L	0.00070	-0.0007	mg/L	0.00070	103.72%
Na 589.592†	1512589.4	645.2	mg/L	0.02	645.2	mg/L	0.02	0.00%
Ni231.604†	46678.8	1.436	mg/L	0.0092	1.436	mg/L	0.0092	0.64%
P 214.914†	38.2	0.0205	mg/L	0.00084	0.0205	mg/L	0.00084	4.09%
Pb220.353†	17.9	0.0009	mg/L	0.00011	0.0009	mg/L	0.00011	11.41%
Sb 206.833†	-1.3	-0.0019	mg/L	0.00041	-0.0019	mg/L	0.00041	22.18%
Se 196.026†	-6.8	-0.0003	mg/L	0.00159	-0.0003	mg/L	0.00159	582.85%
Si251.611†	221759.9	4.909	mg/L	0.0181	4.909	mg/L	0.0181	0.37%
Sn189.933†	298.1	0.0653	mg/L	0.00101	0.0653	mg/L	0.00101	1.55%
Sr 421.552rad†	13235.4	0.0742	mg/L	0.00111	0.0742	mg/L	0.00111	1.50%
Ti 334.941†	7530.0	0.0068	mg/L	0.00002	0.0068	mg/L	0.00002	0.27%
Tl 190.800†	0.0	-0.0005	mg/L	0.00091	-0.0005	mg/L	0.00091	188.61%
V 292.402†	406.8	0.0042	mg/L	0.00060	0.0042	mg/L	0.00060	14.35%
Zn 213.856†	3405.3	0.0279	mg/L	0.00042	0.0279	mg/L	0.00042	1.51%

Sequence No.: 7
Sample ID: ITE2408-08
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 6/1/2010 6:29:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ITE2408-08

Analyte	Back Pressure	Flow
All	274.0 kPa	0.60 L/min

Mean Data: ITE2408-08

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5678167.8	100.6	%	0.44				0.44%
Ag328.068†	-121.5	-0.0006	mg/L	0.00014	-0.0006	mg/L	0.00014	21.47%
Al308.215†	31295.0	1.355	mg/L	0.0032	1.355	mg/L	0.0032	0.23%
As188.979†	1.6	0.0012	mg/L	0.00105	0.0012	mg/L	0.00105	89.04%
B 249.773†	1596.6	0.0413	mg/L	0.00034	0.0413	mg/L	0.00034	0.81%
Ba 233.527†	42011.1	0.2309	mg/L	0.00196	0.2309	mg/L	0.00196	0.85%
Be 313.107†	-348.6	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005	40.32%
Ca 315.887†	50244.2	0.2902	mg/L	0.00137	0.2902	mg/L	0.00137	0.47%
Cd 214.438†	-34.1	-0.0002	mg/L	0.00001	-0.0002	mg/L	0.00001	6.64%
Co 228.616†	1413.9	0.0304	mg/L	0.00016	0.0304	mg/L	0.00016	0.52%
Cr 205.552†	634.4	0.0349	mg/L	0.00019	0.0349	mg/L	0.00019	0.55%
Cu324.754†	764.6	0.0044	mg/L	0.00032	0.0044	mg/L	0.00032	7.24%
Fe238.204†	163362.4	1.250	mg/L	0.0118	1.250	mg/L	0.0118	0.94%
K 766.490†	1773.8	1.060	mg/L	0.0669	1.060	mg/L	0.0669	6.31%
Li 610.362†	914.6	0.0034	mg/L	0.00052	0.0034	mg/L	0.00052	15.32%
Mg279.079†	193415.4	14.15	mg/L	0.186	14.15	mg/L	0.186	1.32%
Mn257.610†	137321.0	0.1227	mg/L	0.00082	0.1227	mg/L	0.00082	0.67%
Mo202.030†	-4.5	-0.0008	mg/L	0.00027	-0.0008	mg/L	0.00027	34.47%
Na 589.592†	1571086.4	670.1	mg/L	0.73	670.1	mg/L	0.73	0.11%
Ni231.604†	12428.7	0.3820	mg/L	0.00405	0.3820	mg/L	0.00405	1.06%
P 214.914†	33.3	0.0192	mg/L	0.00084	0.0192	mg/L	0.00084	4.35%
Pb220.353†	10.6	0.0009	mg/L	0.00139	0.0009	mg/L	0.00139	151.04%
Sb 206.833†	-5.8	-0.0027	mg/L	0.00201	-0.0027	mg/L	0.00201	74.12%
Se 196.026†	-4.5	-0.0023	mg/L	0.00396	-0.0023	mg/L	0.00396	170.31%
Si251.611†	193692.1	4.286	mg/L	0.0259	4.286	mg/L	0.0259	0.60%
Sn189.933†	292.6	0.0626	mg/L	0.00072	0.0626	mg/L	0.00072	1.15%
Sr 421.552rad†	4104.2	0.0230	mg/L	0.00053	0.0230	mg/L	0.00053	2.30%
Ti 334.941†	4310.5	0.0038	mg/L	0.00023	0.0038	mg/L	0.00023	6.13%
Tl 190.800†	-1.1	-0.0010	mg/L	0.00087	-0.0010	mg/L	0.00087	90.94%
V 292.402†	2439.6	0.0240	mg/L	0.00035	0.0240	mg/L	0.00035	1.45%
Zn 213.856†	1411.4	0.0131	mg/L	0.00023	0.0131	mg/L	0.00023	1.78%

Sequence No.: 8
Sample ID: ITE2408-09
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 6/1/2010 6:31:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ITE2408-09

Analyte	Back Pressure	Flow
All	273.0 kPa	0.60 L/min

Mean Data: ITE2408-09

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5421340.6	96.06	%	0.925				0.96%
Ag328.068†	-2505.7	0.0002	mg/L	0.00142	0.0002	mg/L	0.00142	658.43%
Al308.215†	39342.8	1.693	mg/L	0.0247	1.693	mg/L	0.0247	1.46%
As188.979†	-8.5	-0.0004	mg/L	0.00012	-0.0004	mg/L	0.00012	27.07%
B 249.773†	5035.9	0.0475	mg/L	0.00026	0.0475	mg/L	0.00026	0.56%
Ba 233.527†	509.4	0.0028	mg/L	0.00001	0.0028	mg/L	0.00001	0.39%
Be 313.107†	-970.5	-0.0004	mg/L	0.00004	-0.0004	mg/L	0.00004	9.49%
Ca 315.887†	2131842.1	12.46	mg/L	0.185	12.46	mg/L	0.185	1.48%
Cd 214.438†	385.1	0.0020	mg/L	0.00002	0.0020	mg/L	0.00002	1.25%
Co 228.616†	6012.1	0.1292	mg/L	0.00068	0.1292	mg/L	0.00068	0.52%
Cr 205.552†	17599.4	0.9688	mg/L	0.00297	0.9688	mg/L	0.00297	0.31%
Cu324.754†	32.0	0.0002	mg/L	0.00028	0.0002	mg/L	0.00028	154.57%
Fe238.204†	7956103.1	60.87	mg/L	0.167	60.87	mg/L	0.167	0.27%
K 766.490†	1704.4	1.030	mg/L	0.0348	1.030	mg/L	0.0348	3.38%
Li 610.362†	-1906.3	-0.0036	mg/L	0.00120	-0.0036	mg/L	0.00120	33.24%
Mg279.079†	1892760.0	138.4	mg/L	2.57	138.4	mg/L	2.57	1.86%
Mn257.610†	2050464.0	1.833	mg/L	0.0278	1.833	mg/L	0.0278	1.52%
Mo202.030†	-6.5	-0.0044	mg/L	0.00005	-0.0044	mg/L	0.00005	1.04%
Na 589.592†	1648298.8	703.0	mg/L	5.05	703.0	mg/L	5.05	0.72%
Ni231.604†	118560.7	3.659	mg/L	0.0426	3.659	mg/L	0.0426	1.16%
P 214.914†	80.4	0.0228	mg/L	0.00242	0.0228	mg/L	0.00242	10.63%
Pb220.353†	16.3	-0.0021	mg/L	0.00085	-0.0021	mg/L	0.00085	40.40%
Sb 206.833†	40.2	-0.0002	mg/L	0.00147	-0.0002	mg/L	0.00147	660.06%
Se 196.026†	-36.3	0.0046	mg/L	0.00096	0.0046	mg/L	0.00096	20.86%
Si251.611†	216610.3	4.803	mg/L	0.0617	4.803	mg/L	0.0617	1.28%
Sn189.933†	255.8	0.0683	mg/L	0.00133	0.0683	mg/L	0.00133	1.95%
Sr 421.552rad†	4408.8	0.0246	mg/L	0.00086	0.0246	mg/L	0.00086	3.52%
Ti 334.941†	-494.3	0.0000	mg/L	0.00011	0.0000	mg/L	0.00011	433.42%
Tl 190.800†	-3.7	-0.0050	mg/L	0.00048	-0.0050	mg/L	0.00048	9.69%
V 292.402†	1847.0	0.0203	mg/L	0.00001	0.0203	mg/L	0.00001	0.04%
Zn 213.856†	6326.3	0.0419	mg/L	0.00012	0.0419	mg/L	0.00012	0.28%

Sequence No.: 9
Sample ID: SEQUENCE-CCV4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/1/2010 6:34:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: SEQUENCE-CCV4

Analyte	Back Pressure	Flow
All	269.0 kPa	0.60 L/min

Mean Data: SEQUENCE-CCV4

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5728504.8	101.5	%	2.61				2.57%
Ag328.068†	55659.4	0.5039	mg/L	0.01422	0.5039	mg/L	0.01422	2.82%
Al308.215†	23456.3	1.032	mg/L	0.0298	1.032	mg/L	0.0298	2.89%
As188.979†	1508.1	1.018	mg/L	0.0398	1.018	mg/L	0.0398	3.91%
B 249.773†	37052.5	0.9993	mg/L	0.03114	0.9993	mg/L	0.03114	3.12%
Ba 233.527†	182636.8	1.005	mg/L	0.0302	1.005	mg/L	0.0302	3.01%
Be 313.107†	2619734.5	1.000	mg/L	0.0004	1.000	mg/L	0.0004	0.04%
Ca 315.887†	1701916.5	9.961	mg/L	0.2942	9.961	mg/L	0.2942	2.95%
Cd 214.438†	196328.4	0.9988	mg/L	0.03004	0.9988	mg/L	0.03004	3.01%
Co 228.616†	46702.9	1.003	mg/L	0.0292	1.003	mg/L	0.0292	2.91%
Cr 205.552†	18263.3	1.007	mg/L	0.0268	1.007	mg/L	0.0268	2.66%
Cu324.754†	174863.8	1.007	mg/L	0.0272	1.007	mg/L	0.0272	2.70%
Fe238.204†	131865.5	1.011	mg/L	0.0278	1.011	mg/L	0.0278	2.75%
K 766.490†	16994.0	10.16	mg/L	0.223	10.16	mg/L	0.223	2.19%
Li 610.362†	276349.8	1.009	mg/L	0.0195	1.009	mg/L	0.0195	1.93%
Mg279.079†	13750.4	1.027	mg/L	0.0237	1.027	mg/L	0.0237	2.31%
Mn257.610†	1122943.6	1.004	mg/L	0.0284	1.004	mg/L	0.0284	2.83%
Mo202.030†	6227.8	1.021	mg/L	0.0410	1.021	mg/L	0.0410	4.01%
Na 589.592†	25793.1	11.01	mg/L	0.262	11.01	mg/L	0.262	2.38%
Ni231.604†	32423.4	0.9942	mg/L	0.03098	0.9942	mg/L	0.03098	3.12%
P 214.914†	1810.5	1.003	mg/L	0.0411	1.003	mg/L	0.0411	4.10%
Pb220.353†	8289.2	1.009	mg/L	0.0437	1.009	mg/L	0.0437	4.33%
Sb 206.833†	2499.3	1.011	mg/L	0.0332	1.011	mg/L	0.0332	3.28%
Se 196.026†	1491.0	1.000	mg/L	0.0427	1.000	mg/L	0.0427	4.27%
Si251.611†	229641.3	5.022	mg/L	0.2185	5.022	mg/L	0.2185	4.35%
Sn189.933†	4754.9	1.014	mg/L	0.0425	1.014	mg/L	0.0425	4.20%
Sr 421.552rad†	178583.3	1.001	mg/L	0.0289	1.001	mg/L	0.0289	2.88%
Ti 334.941†	1141146.3	1.002	mg/L	0.0274	1.002	mg/L	0.0274	2.74%
Tl 190.800†	1611.7	1.009	mg/L	0.0416	1.009	mg/L	0.0416	4.12%
V 292.402†	101811.6	1.010	mg/L	0.0225	1.010	mg/L	0.0225	2.22%
Zn 213.856†	90559.0	0.9917	mg/L	0.02741	0.9917	mg/L	0.02741	2.76%

Sequence No.: 10
Sample ID: SEQUENCE-CCB4
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/1/2010 6:37:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: SEQUENCE-CCB4

Analyte	Back Pressure	Flow
All	272.0 kPa	0.60 L/min

Na, Sb T

Mean Data: SEQUENCE-CCB4

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5926444.3	105.0	%	1.57				1.49%
Ag328.068†	132.4	0.0012	mg/L	0.00037	0.0012	mg/L	0.00037	31.02%
Al308.215†	126.4	0.0054	mg/L	0.00036	0.0054	mg/L	0.00036	6.71%
As188.979†	-1.7	-0.0011	mg/L	0.00144	-0.0011	mg/L	0.00144	128.46%
B 249.773†	25.8	0.0007	mg/L	0.00007	0.0007	mg/L	0.00007	10.86%
Ba 233.527†	49.9	0.0003	mg/L	0.00019	0.0003	mg/L	0.00019	67.53%
Be 313.107†	273.7	0.0001	mg/L	0.00011	0.0001	mg/L	0.00011	100.78%
Ca 315.887†	1615.7	0.0094	mg/L	0.00029	0.0094	mg/L	0.00029	3.11%
Cd 214.438†	25.2	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	27.77%
Co 228.616†	-2.7	-0.0001	mg/L	0.00005	-0.0001	mg/L	0.00005	83.97%
Cr 205.552†	47.8	0.0026	mg/L	0.00014	0.0026	mg/L	0.00014	5.19%
Cu324.754†	-109.2	-0.0006	mg/L	0.00062	-0.0006	mg/L	0.00062	98.43%
Fe238.204†	2204.8	0.0169	mg/L	0.00056	0.0169	mg/L	0.00056	3.35%
K 766.490†	35.7	0.0214	mg/L	0.03632	0.0214	mg/L	0.03632	169.77%
Li 610.362†	1039.6	0.0038	mg/L	0.00124	0.0038	mg/L	0.00124	32.82%
Mg279.079†	131.5	0.0097	mg/L	0.00048	0.0097	mg/L	0.00048	4.98%
Mn257.610†	532.3	0.0005	mg/L	0.00006	0.0005	mg/L	0.00006	11.70%
Mo202.030†	22.0	0.0036	mg/L	0.00140	0.0036	mg/L	0.00140	38.95%
Na 589.592†	1476.2	0.6296	mg/L	0.03281	0.6296	mg/L	0.03281	5.21%
Ni231.604†	67.2	0.0021	mg/L	0.00006	0.0021	mg/L	0.00006	2.97%
P 214.914†	0.0	0.0000	mg/L	0.00397	0.0000	mg/L	0.00397	>999.9%
Pb220.353†	2.3	0.0003	mg/L	0.00031	0.0003	mg/L	0.00031	110.12%
Sb 206.833†	45.7	0.0185	mg/L	0.01147	0.0185	mg/L	0.01147	62.05%
Se 196.026†	2.8	0.0019	mg/L	0.00259	0.0019	mg/L	0.00259	139.31%
Si251.611†	231.2	0.0049	mg/L	0.00173	0.0049	mg/L	0.00173	35.10%
Sn189.933†	16.5	0.0035	mg/L	0.00209	0.0035	mg/L	0.00209	59.33%
Sr 421.552rad†	39.3	0.0002	mg/L	0.00016	0.0002	mg/L	0.00016	74.15%
Ti 334.941†	843.0	0.0007	mg/L	0.00059	0.0007	mg/L	0.00059	79.02%
Tl 190.800†	0.1	0.0001	mg/L	0.00045	0.0001	mg/L	0.00045	700.60%
V 292.402†	86.1	0.0009	mg/L	0.00008	0.0009	mg/L	0.00008	9.06%
Zn 213.856†	-8.0	-0.0001	mg/L	0.00004	-0.0001	mg/L	0.00004	38.40%

Sequence No.: 12
Sample ID: ITE2408-10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 6/1/2010 6:46:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ITE2408-10

Analyte	Back Pressure	Flow
All	269.0 kPa	0.60 L/min

Mean Data: ITE2408-10

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5419379.1	96.03	%	1.014				1.06%
Ag328.068†	-330.4	-0.0008	mg/L	0.00134	-0.0008	mg/L	0.00134	159.62%
Al308.215†	33672.2	1.457	mg/L	0.0011	1.457	mg/L	0.0011	0.07%
As188.979†	4.5	0.0033	mg/L	0.00092	0.0033	mg/L	0.00092	27.90%
B 249.773†	1733.3	0.0386	mg/L	0.00094	0.0386	mg/L	0.00094	2.44%
Ba 233.527†	87786.0	0.4825	mg/L	0.00072	0.4825	mg/L	0.00072	0.15%
Be 313.107†	140.4	0.0000	mg/L	0.00004	0.0000	mg/L	0.00004	91.29%
Ca 315.887†	1034087.7	6.060	mg/L	0.0060	6.060	mg/L	0.0060	0.10%
Cd 214.438†	23.3	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	2.25%
Co 228.616†	1340.3	0.0287	mg/L	0.00035	0.0287	mg/L	0.00035	1.23%
Cr 205.552†	690.1	0.0380	mg/L	0.00048	0.0380	mg/L	0.00048	1.27%
Cu324.754†	3636.8	0.0209	mg/L	0.00029	0.0209	mg/L	0.00029	1.37%
Fe238.204†	734459.1	5.619	mg/L	0.0145	5.619	mg/L	0.0145	0.26%
K 766.490†	1791.1	1.071	mg/L	0.0478	1.071	mg/L	0.0478	4.46%
Li 610.362†	-756.2	-0.0018	mg/L	0.00142	-0.0018	mg/L	0.00142	78.52%
Mg279.079†	74979.4	5.485	mg/L	0.0337	5.485	mg/L	0.0337	0.61%
Mn257.610†	344796.5	0.3081	mg/L	0.00044	0.3081	mg/L	0.00044	0.14%
Mo202.030†	-2.5	-0.0007	mg/L	0.00040	-0.0007	mg/L	0.00040	57.62%
Na 589.592†	1573450.3	671.1	mg/L	15.57	671.1	mg/L	15.57	2.32%
Ni231.604†	3663.6	0.1142	mg/L	0.00137	0.1142	mg/L	0.00137	1.20%
P 214.914†	349.3	0.1934	mg/L	0.00429	0.1934	mg/L	0.00429	2.22%
Pb220.353†	60.4	0.0070	mg/L	0.00044	0.0070	mg/L	0.00044	6.26%
Sb 206.833†	-3.2	-0.0016	mg/L	0.00058	-0.0016	mg/L	0.00058	36.93%
Se 196.026†	-1.8	0.0016	mg/L	0.00376	0.0016	mg/L	0.00376	238.25%
Si251.611†	101626.1	2.249	mg/L	0.0053	2.249	mg/L	0.0053	0.23%
Sn189.933†	301.3	0.0653	mg/L	0.00100	0.0653	mg/L	0.00100	1.54%
Sr 421.552rad†	16943.5	0.0950	mg/L	0.00064	0.0950	mg/L	0.00064	0.67%
Ti 334.941†	41728.6	0.0369	mg/L	0.00014	0.0369	mg/L	0.00014	0.39%
Tl 190.800†	-2.6	-0.0016	mg/L	0.00222	-0.0016	mg/L	0.00222	138.39%
V 292.402†	1428.8	0.0141	mg/L	0.00006	0.0141	mg/L	0.00006	0.40%
Zn 213.856†	994.4	0.0097	mg/L	0.00034	0.0097	mg/L	0.00034	3.51%

Sequence No.: 2
Sample ID: SEQUENCE-CCV5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/1/2010 7:12:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: SEQUENCE-CCV5

Analyte	Back Pressure	Flow
All	273.0 kPa	0.60 L/min

Al, Mg, Na T

Mean Data: SEQUENCE-CCV5

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5604589.8	99.31	%	1.228				1.24%
Ag328.068†	59681.6	0.5403	mg/L	0.00457	0.5403	mg/L	0.00457	0.85%
Al308.215†	25108.2	1.105	mg/L	0.0109	1.105	mg/L	0.0109	0.99%
As188.979†	1627.9	1.098	mg/L	0.0138	1.098	mg/L	0.0138	1.25%
B 249.773†	39886.5	1.076	mg/L	0.0175	1.076	mg/L	0.0175	1.62%
Ba 233.527†	196273.7	1.080	mg/L	0.0100	1.080	mg/L	0.0100	0.93%
Be 313.107†	2815473.1	1.075	mg/L	0.0046	1.075	mg/L	0.0046	0.43%
Ca 315.887†	1823739.2	10.67	mg/L	0.079	10.67	mg/L	0.079	0.74%
Cd 214.438†	211908.6	1.078	mg/L	0.0142	1.078	mg/L	0.0142	1.32%
Co 228.616†	50378.3	1.081	mg/L	0.0120	1.081	mg/L	0.0120	1.11%
Cr 205.552†	19612.6	1.081	mg/L	0.0180	1.081	mg/L	0.0180	1.66%
Cu324.754†	186800.6	1.076	mg/L	0.0089	1.076	mg/L	0.0089	0.83%
Fe238.204†	141166.7	1.082	mg/L	0.0088	1.082	mg/L	0.0088	0.81%
K 766.490†	17940.8	10.73	mg/L	0.224	10.73	mg/L	0.224	2.08%
Li 610.362†	291367.7	1.063	mg/L	0.0046	1.063	mg/L	0.0046	0.43%
Mg279.079†	14907.7	1.113	mg/L	0.0147	1.113	mg/L	0.0147	1.32%
Mn257.610†	1206196.7	1.078	mg/L	0.0086	1.078	mg/L	0.0086	0.79%
Mo202.030†	6676.1	1.095	mg/L	0.0149	1.095	mg/L	0.0149	1.36%
Na 589.592†	26976.1	11.51	mg/L	0.171	11.51	mg/L	0.171	1.49%
Ni231.604†	34968.1	1.072	mg/L	0.0157	1.072	mg/L	0.0157	1.46%
P 214.914†	1954.0	1.083	mg/L	0.0168	1.083	mg/L	0.0168	1.55%
Pb220.353†	8931.6	1.087	mg/L	0.0154	1.087	mg/L	0.0154	1.41%
Sb 206.833†	2699.2	1.092	mg/L	0.0081	1.092	mg/L	0.0081	0.74%
Se 196.026†	1627.6	1.092	mg/L	0.0152	1.092	mg/L	0.0152	1.40%
Si251.611†	249590.0	5.459	mg/L	0.1070	5.459	mg/L	0.1070	1.96%
Sn189.933†	5146.9	1.097	mg/L	0.0172	1.097	mg/L	0.0172	1.57%
Sr 421.552rad†	195899.4	1.099	mg/L	0.0179	1.099	mg/L	0.0179	1.63%
Ti 334.941†	1230121.7	1.080	mg/L	0.0055	1.080	mg/L	0.0055	0.51%
Tl 190.800†	1733.8	1.086	mg/L	0.0170	1.086	mg/L	0.0170	1.56%
V 292.402†	109223.3	1.083	mg/L	0.0240	1.083	mg/L	0.0240	2.22%
Zn 213.856†	97371.4	1.066	mg/L	0.0168	1.066	mg/L	0.0168	1.58%

Sequence No.: 3
Sample ID: SEQUENCE-CCB5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/1/2010 7:15:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: SEQUENCE-CCB5

Analyte	Back Pressure	Flow
All	271.0 kPa	0.60 L/min

Sb 5

Mean Data: SEQUENCE-CCB5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Y 371.030	5481661.4	97.13	%	1.220				1.26%
Ag328.068†	-173.3	-0.0016	mg/L	0.00121	-0.0016	mg/L	0.00121	77.02%
Al308.215†	353.2	0.0152	mg/L	0.00166	0.0152	mg/L	0.00166	10.91%
As188.979†	0.9	0.0006	mg/L	0.00012	0.0006	mg/L	0.00012	20.41%
B 249.773†	98.6	0.0026	mg/L	0.00054	0.0026	mg/L	0.00054	20.32%
Ba 233.527†	40.2	0.0002	mg/L	0.00012	0.0002	mg/L	0.00012	55.75%
Be 313.107†	-134.1	-0.0001	mg/L	0.00017	-0.0001	mg/L	0.00017	334.24%
Ca 315.887†	1721.9	0.0100	mg/L	0.00101	0.0100	mg/L	0.00101	10.08%
Cd 214.438†	21.2	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	18.62%
Co 228.616†	4.1	0.0001	mg/L	0.00014	0.0001	mg/L	0.00014	156.67%
Cr 205.552†	55.8	0.0031	mg/L	0.00008	0.0031	mg/L	0.00008	2.60%
Cu324.754†	51.8	0.0003	mg/L	0.00015	0.0003	mg/L	0.00015	50.48%
Fe238.204†	2323.8	0.0178	mg/L	0.00085	0.0178	mg/L	0.00085	4.80%
K 766.490†	127.7	0.0763	mg/L	0.02908	0.0763	mg/L	0.02908	38.09%
Li 610.362†	-678.8	-0.0025	mg/L	0.00151	-0.0025	mg/L	0.00151	61.02%
Mg279.079†	102.0	0.0075	mg/L	0.00237	0.0075	mg/L	0.00237	31.53%
Mn257.610†	574.2	0.0005	mg/L	0.00012	0.0005	mg/L	0.00012	22.64%
Mo202.030†	27.2	0.0045	mg/L	0.00145	0.0045	mg/L	0.00145	32.44%
Na 589.592†	1169.0	0.4986	mg/L	0.00254	0.4986	mg/L	0.00254	0.51%
Ni231.604†	54.1	0.0017	mg/L	0.00007	0.0017	mg/L	0.00007	4.35%
P 214.914†	5.0	0.0027	mg/L	0.00170	0.0027	mg/L	0.00170	61.99%
Pb220.353†	-0.8	-0.0001	mg/L	0.00044	-0.0001	mg/L	0.00044	506.40%
Sb 206.833†	39.4	0.0159	mg/L	0.00626	0.0159	mg/L	0.00626	39.26%
Se 196.026†	0.3	0.0002	mg/L	0.00022	0.0002	mg/L	0.00022	112.91%
Si251.611†	1464.0	0.0321	mg/L	0.00192	0.0321	mg/L	0.00192	5.98%
Sn189.933†	29.9	0.0064	mg/L	0.00294	0.0064	mg/L	0.00294	46.14%
Sr 421.552rad†	37.5	0.0002	mg/L	0.00018	0.0002	mg/L	0.00018	85.49%
Ti 334.941†	374.7	0.0003	mg/L	0.00042	0.0003	mg/L	0.00042	127.93%
Tl 190.800†	0.2	0.0002	mg/L	0.00226	0.0002	mg/L	0.00226	>999.9%
V 292.402†	67.9	0.0007	mg/L	0.00004	0.0007	mg/L	0.00004	6.32%
Zn 213.856†	181.3	0.0020	mg/L	0.00012	0.0020	mg/L	0.00012	5.92%

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA7470A-STLC METALS
Analytical Results Summary

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 www.testamericainc.com

Form 1

INORGANIC ANALYSIS DATA SHEET

7470A-STLC

02CMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-01 File ID: 100601-1-018

Sampled: 04/26/10 12:26 Prepared: 06/01/10 13:36 Analyzed: 06/01/10 15:39

Solids: 0.00 Preparation: EPA 7470A Hg Initial/Final: 2 ml / 20 ml

Batch: 10F0103 Sequence: T000425 Calibration: UNASSIGNED Instrument: CV-Hg2

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.017	1		7470A-STLC

Form 1

INORGANIC ANALYSIS DATA SHEET

7470A-STLC

04CMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-02 File ID: 100601-1-023

Sampled: 05/02/10 13:25 Prepared: 06/01/10 13:36 Analyzed: 06/01/10 15:51

Solids: 0.00 Preparation: EPA 7470A Hg Initial/Final: 2 ml / 20 ml

Batch: 10F0103 Sequence: T000425 Calibration: UNASSIGNED Instrument: CV-Hg2

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0020	1	U	7470A-STLC

Form 1

INORGANIC ANALYSIS DATA SHEET

7470A-STLC

06CMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-03 File ID: 100601-1-024

Sampled: 05/03/10 13:00 Prepared: 06/01/10 13:36 Analyzed: 06/01/10 15:54

Solids: 0.00 Preparation: EPA 7470A Hg Initial/Final: 2 ml / 20 ml

Batch: 10F0103 Sequence: T000425 Calibration: UNASSIGNED Instrument: CV-Hg2

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0020	1	U	7470A-STLC

Form 1

INORGANIC ANALYSIS DATA SHEET

7470A-STLC

02SMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-04 File ID: 100601-1-025

Sampled: 04/24/10 11:30 Prepared: 06/01/10 13:36 Analyzed: 06/01/10 15:56

Solids: 0.00 Preparation: EPA 7470A Hg Initial/Final: 2 ml / 20 ml

Batch: 10F0103 Sequence: T000425 Calibration: UNASSIGNED Instrument: CV-Hg2

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0055	1		7470A-STLC

Form 1

INORGANIC ANALYSIS DATA SHEET

7470A-STLC

05SMSB-B

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-05 File ID: 100601-1-026

Sampled: 04/26/10 09:10 Prepared: 06/01/10 13:36 Analyzed: 06/01/10 15:58

Solids: 0.00 Preparation: EPA 7470A Hg Initial/Final: 2 ml / 20 ml

Batch: 10F0103 Sequence: T000425 Calibration: UNASSIGNED Instrument: CV-Hg2

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0020	1	U	7470A-STLC

Form 1

INORGANIC ANALYSIS DATA SHEET

7470A-STLC

08SMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-06 File ID: 100601-1-027

Sampled: 04/25/10 15:17 Prepared: 06/01/10 13:36 Analyzed: 06/01/10 16:01

Solids: 0.00 Preparation: EPA 7470A Hg Initial/Final: 2 ml / 20 ml

Batch: 10F0103 Sequence: T000425 Calibration: UNASSIGNED Instrument: CV-Hg2

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0020	1	U	7470A-STLC

Form 1

INORGANIC ANALYSIS DATA SHEET

7470A-STLC

02HMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-07 File ID: 100601-1-028

Sampled: 05/08/10 08:38 Prepared: 06/01/10 13:36 Analyzed: 06/01/10 16:03

Solids: 0.00 Preparation: EPA 7470A Hg Initial/Final: 2 ml / 20 ml

Batch: 10F0103 Sequence: T000425 Calibration: UNASSIGNED Instrument: CV-Hg2

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0020	1	U	7470A-STLC

Form 1

INORGANIC ANALYSIS DATA SHEET

7470A-STLC

05HMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-08 File ID: 100601-1-029

Sampled: 05/11/10 13:15 Prepared: 06/01/10 13:36 Analyzed: 06/01/10 16:06

Solids: 0.00 Preparation: EPA 7470A Hg Initial/Final: 2 ml / 20 ml

Batch: 10F0103 Sequence: T000425 Calibration: UNASSIGNED Instrument: CV-Hg2

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0020	1	U	7470A-STLC

Form 1

INORGANIC ANALYSIS DATA SHEET

7470A-STLC

08HMSB

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-09 File ID: 100601-1-033

Sampled: 05/07/10 15:40 Prepared: 06/01/10 13:36 Analyzed: 06/01/10 16:16

Solids: 0.00 Preparation: EPA 7470A Hg Initial/Final: 2 ml / 20 ml

Batch: 10F0103 Sequence: T000425 Calibration: UNASSIGNED Instrument: CV-Hg2

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0020	1	U	7470A-STLC

Form 1

INORGANIC ANALYSIS DATA SHEET

7470A-STLC

09SMMW

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Matrix: Solid Laboratory ID: ITE2408-10 File ID: 100601-1-034

Sampled: 04/25/10 14:16 Prepared: 06/01/10 13:36 Analyzed: 06/01/10 16:18

Solids: 0.00 Preparation: EPA 7470A Hg Initial/Final: 2 ml / 20 ml

Batch: 10F0103 Sequence: T000425 Calibration: UNASSIGNED Instrument: CV-Hg2

CAS NO.	Analyte	Concentration (mg/l)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0020	1	U	7470A-STLC

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA7470A-STLC METALS
ICV/CCV Summary

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 **www.testamericainc.com**

INITIAL AND CONTINUING CALIBRATION CHECK

7470A-STLC

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Project: ERM-West Sacramento
Instrument ID: CV-Hg2
Calibration: UNASSIGNED
Control Limt: +/- 20.00%
Sequence: T000425

Lab Sample ID	Analyte	True	Found	%R	Limit	Units	Method	Analyzed
T000425-ICV1	Mercury	8.00	8.26	103	90 - 110	ug/l	7470A-STLC	6/1/10 15:10
T000425-CCV1	Mercury	4.00	4.30	108	80 - 120	ug/l	7470A-STLC	6/1/10 15:41
T000425-CCV2	Mercury	4.00	4.32	108	80 - 120	ug/l	7470A-STLC	6/1/10 16:08
T000425-CCV3	Mercury	4.00	4.18	105	80 - 120	ug/l	7470A-STLC	6/1/10 16:39
T000425-CCV4	Mercury	4.00	4.34	109	80 - 120	ug/l	7470A-STLC	6/1/10 17:06
T000425-CCV5	Mercury	4.00	4.37	109	80 - 120	ug/l	7470A-STLC	6/1/10 17:28
T000425-CCV6	Mercury	4.00	4.10	103	80 - 120	ug/l	7470A-STLC	6/1/10 17:54
T000425-CCV7	Mercury	4.00	4.04	101	80 - 120	ug/l	7470A-STLC	6/1/10 18:14

* Values outside of QC limits

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA7470A-STLC METALS
ICB/CCB Summary

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 **www.testamericainc.com**

BLANKS
7470A-STLC

Laboratory: TestAmerica Irvine
SDG:
Client: TestAmerica Seattle
Instrument ID: CV-Hg2
Project: ERM-West Sacramento
Sequence: T000425
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	MRL	Units	C	Method	Analyzed
T000425-ICB1	Mercury	0.000166	0.20	ug/l		7470A-STLC	6/1/10 15:13
10F0103-BLK1	Mercury	ND	0.0020	mg/l		7470A-STLC	6/1/10 15:34
T000425-CCB1	Mercury	-0.00628	0.20	ug/l		7470A-STLC	6/1/10 15:44
T000425-CCB2	Mercury	0.00580	0.20	ug/l		7470A-STLC	6/1/10 16:11
T000425-CCB3	Mercury	0.0128	0.20	ug/l		7470A-STLC	6/1/10 16:42
T000425-CCB4	Mercury	0.0124	0.20	ug/l		7470A-STLC	6/1/10 17:09
T000425-CCB5	Mercury	0.0136	0.20	ug/l		7470A-STLC	6/1/10 17:31
T000425-CCB6	Mercury	0.000852	0.20	ug/l		7470A-STLC	6/1/10 17:57
T000425-CCB7	Mercury	0.000292	0.20	ug/l		7470A-STLC	6/1/10 18:16

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA7470A-STLC METALS
Preparation Blank Summary

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 www.testamericainc.com

Form 1
METHOD BLANK DATA SHEET
7470A-STLC

Laboratory:	TestAmerica Irvine		SDG:		
Client:	TestAmerica Seattle		Project:	ERM-West Sacramento	
Matrix:	Water	Laboratory ID:	10F0103-BLK1	File ID:	100601-1-016
Prepared:	06/01/10 13:36	Preparation:	EPA 7470A Hg	Initial/Final:	2 ml / 20 ml
Analyzed:	06/01/10 15:34	Instrument:	CV-Hg2		
Batch:	10F0103	Sequence:	T000425	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/l)	Q
7439-97-6	Mercury	0.0020	U

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA7470A-STLC METALS
MS/MSD Summary

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 www.testamericainc.com

Form 3

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

7470A-STLC

02CMSB

Laboratory:	TestAmerica Irvine	SDG:	
Client:	TestAmerica Seattle	Project:	ERM-West Sacramento
Matrix:	Water	Spike standard:	IT04533
Batch:	10F0103	Laboratory ID:	10F0103-MS1
Preparation:	EPA 7470A Hg	Initial/Final:	2 ml / 20 ml

Source Sample Name: 02CMSB

COMPOUND	SPIKE ADDED (mg/l)	SAMPLE CONCENTRATION (mg/l)	MS CONCENTRATION (mg/l)	MS % REC. #	QC LIMITS REC.
Mercury	0.0800	0.0172	0.0501	41 *	70 - 130

COMPOUND	SPIKE ADDED (mg/l)	MSD CONCENTRATION (mg/l)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Mercury	0.0800	0.0486	39 *	3	20	70 - 130

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA7470A-STLC METALS
LCS Summary

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 **www.testamericainc.com**

Form 3
LCS / LCS DUPLICATE RECOVERY
7470A-STLC

Laboratory:	TestAmerica Irvine	SDG:	
Client:	TestAmerica Seattle	Project:	ERM-West Sacramento
Matrix:	Water	Spike standard:	IT04533
Batch:	10F0103	Laboratory ID:	10F0103-BS1
Preparation:	EPA 7470A Hg	Initial/Final:	2 ml / 20 ml

COMPOUND	SPIKE ADDED (mg/l)	LCS CONCENTRATION (mg/l)	LCS % REC. #	QC LIMITS REC.
Mercury	0.0800	0.0701	88	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA7470A-STLC METALS
Sample Digestion Log

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 www.testamericainc.com

Form 4

PREPARATION BATCH SUMMARY

7470A-STLC

Laboratory: TestAmerica Irvine SDG:

Client: TestAmerica Seattle Project: ERM-West Sacramento

Batch: 10F0103 Batch Matrix: Water Preparation: EPA 7470A Hg

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	10F0103-BLK1	100601-1-016	06/01/10 13:36	
LCS	10F0103-BS1	100601-1-017	06/01/10 13:36	
02CMSB	10F0103-MS1	100601-1-021	06/01/10 13:36	
02CMSB	10F0103-MSD1	100601-1-022	06/01/10 13:36	
02CMSB	ITE2408-01	100601-1-018	06/01/10 13:36	J Flag. RUN PAST HOLD
04CMSB	ITE2408-02	100601-1-023	06/01/10 13:36	J Flag
06CMSB	ITE2408-03	100601-1-024	06/01/10 13:36	J Flag
02SMSB	ITE2408-04	100601-1-025	06/01/10 13:36	J Flag. RUN PAST HOLD
05SMSB-B	ITE2408-05	100601-1-026	06/01/10 13:36	J Flag. RUN PAST HOLD
08SMSB	ITE2408-06	100601-1-027	06/01/10 13:36	J Flag. RUN PAST HOLD
02HMSB	ITE2408-07	100601-1-028	06/01/10 13:36	J Flag
05HMSB	ITE2408-08	100601-1-029	06/01/10 13:36	J Flag
08HMSB	ITE2408-09	100601-1-033	06/01/10 13:36	J Flag
09SMMW	ITE2408-10	100601-1-034	06/01/10 13:36	J Flag. RUN PAST HOLD

Metals Prep Report

PREPARATION BENCH SHEET

10F0103

Matrix: Water

TestAmerica Irvine

Prepared using: Metals - EPA 7470A Hg

Printed: 6/1/2010 1:37:45PM

Lab Number and bottle	Prepared	Prep By	Due Date	Initial (ml)	Final (ml)	Spike 1	ul Spike 1	Spike 2	ul Spike 2	Source ID	pH	Turbidity	Comments
10F0103-BLK1	06/01/10 13:36	SN		2	20								
10F0103-BS1	06/01/10 13:36	SN		2	20	IT04533	160						
10F0103-MS1	06/01/10 13:36	SN		2	20	IT04533	160			ITE2408-01			
10F0103-MSD1	06/01/10 13:36	SN		2	20	IT04533	160			ITE2408-01			
1 ITE2408-01 A Mercury-STLC	06/01/10 13:36	SN	06/02/10 12:00	2	20						<2		J Flag. RUN PAST HOLD | J Flag. RUN PAST HOLD
2 ITE2408-02 A Mercury-STLC	06/01/10 13:36	SN	06/02/10 12:00	2	20						<2		J Flag | J Flag
3 ITE2408-03 A Mercury-STLC	06/01/10 13:36	SN	06/02/10 12:00	2	20						<2		J Flag | J Flag
4 ITE2408-04 A Mercury-STLC	06/01/10 13:36	SN	06/02/10 12:00	2	20						<2		J Flag. RUN PAST HOLD | J Flag. RUN PAST HOLD
5 ITE2408-05 A Mercury-STLC	06/01/10 13:36	SN	06/02/10 12:00	2	20						<2		J Flag. RUN PAST HOLD | J Flag. RUN PAST HOLD
6 ITE2408-06 A Mercury-STLC	06/01/10 13:36	SN	06/02/10 12:00	2	20						<2		J Flag. RUN PAST HOLD | J Flag. RUN PAST HOLD
7 ITE2408-07 A Mercury-STLC	06/01/10 13:36	SN	06/02/10 12:00	2	20						<2		J Flag | J Flag
8 ITE2408-08 A Mercury-STLC	06/01/10 13:36	SN	06/02/10 12:00	2	20						<2		J Flag | J Flag
9 ITE2408-09 A Mercury-STLC	06/01/10 13:36	SN	06/02/10 12:00	2	20						<2		J Flag | J Flag

Prepared By: [signature] Date: 6-1-10

Preparation Reviewed By: DB Date: 6-1-10

Metals Prep Report

PREPARATION BENCH SHEET

10F0103

Matrix: Water

TestAmerica Irvine

Prepared using: Metals - EPA 7470A Hg

Printed: 6/1/2010 1:37:45PM

Lab Number and bottle	Prepared	Prep By	Due Date	Initial (ml)	Final (ml)	Spike 1	ul Spike 1	Spike 2	ul Spike 2	Source ID	pH	Turbidity	Comments
10 ITE2408-10 A Mercury-STLC	06/01/10 13:36	SN	06/02/10 12:00	2	20						<2		J Flag. RUN PAST HOLD | J Flag. RUN PAST HOLD
11 ITE2518-01 A Mercury-STLC	06/01/10 13:36	SN	06/07/10 12:00	2	20						<2		
12 ITE2518-02 A Mercury-STLC	06/01/10 13:36	SN	06/07/10 12:00	2	20						<2		

dig tube lot # 1021171
thermometer T-050 CF 0.0 C
hot block temp 96 C

Standard(s):	Description	Amount
IT04533	1PPM HG	160 uL

Reagent	Description	Manufacture Lot#
9050558	Sulfuric acid	G35029
IT03181	Nitric acid	H45029
IT04068	12% NaCl Hydroxilamine sulfate	086451/084818
IT04086	5% potassium permanganate	085123
IT04295	5% potassium persulfate	083661

Step	Initials	Time
Initial Volume	SN	11:00
Spike	SN	11:10
Initial Acid +/ Reagent	SN	11:10
Second Acid +/ Reagent	SN	11:25
Additional Acids +/ Reagents	SN	14:00
Final Volume	SN	14:10

Prepared By Date

Preparation Reviewed By Date

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

QA/QC PACKAGE: LEVEL IV
PREPARED FOR: TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA7470A-STLC METALS
Analytical Sequence Form

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 www.testamericainc.com

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

7470A-STLC

Laboratory:	TestAmerica Irvine	SDG:	
Client:	TestAmerica Seattle	Project:	ERM-West Sacramento
Sequence:	T000425	Instrument:	CV-Hg2
		Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	T000425-CAL1	100601-1-001	06/01/10 14:54
Cal Standard	T000425-CAL2	100601-1-002	06/01/10 14:57
Cal Standard	T000425-CAL3	100601-1-003	06/01/10 14:59
Cal Standard	T000425-CAL4	100601-1-004	06/01/10 15:01
Cal Standard	T000425-CAL5	100601-1-005	06/01/10 15:04
Cal Standard	T000425-CAL6	100601-1-006	06/01/10 15:07
Initial Cal Check	T000425-ICV1	100601-1-007	06/01/10 15:10
Initial Cal Blank	T000425-ICB1	100601-1-008	06/01/10 15:13
Instrument RL Check	T000425-CRL1	100601-1-009	06/01/10 15:15
Blank	10F0103-BLK1	100601-1-016	06/01/10 15:34
LCS	10F0103-BS1	100601-1-017	06/01/10 15:36
02CMSB	ITE2408-01	100601-1-018	06/01/10 15:39
Calibration Check	T000425-CCV1	100601-1-019	06/01/10 15:41
Calibration Blank	T000425-CCB1	100601-1-020	06/01/10 15:44
02CMSB	10F0103-MS1	100601-1-021	06/01/10 15:46
02CMSB	10F0103-MSD1	100601-1-022	06/01/10 15:49
04CMSB	ITE2408-02	100601-1-023	06/01/10 15:51
06CMSB	ITE2408-03	100601-1-024	06/01/10 15:54
02SMSB	ITE2408-04	100601-1-025	06/01/10 15:56
05SMSB-B	ITE2408-05	100601-1-026	06/01/10 15:58
08SMSB	ITE2408-06	100601-1-027	06/01/10 16:01
02HMSB	ITE2408-07	100601-1-028	06/01/10 16:03
05HMSB	ITE2408-08	100601-1-029	06/01/10 16:06
Calibration Check	T000425-CCV2	100601-1-030	06/01/10 16:08
Calibration Blank	T000425-CCB2	100601-1-031	06/01/10 16:11
Instrument RL Check	T000425-CRL2	100601-1-032	06/01/10 16:13
08HMSB	ITE2408-09	100601-1-033	06/01/10 16:16
09SMMW	ITE2408-10	100601-1-034	06/01/10 16:18
Calibration Check	T000425-CCV3	100601-1-042	06/01/10 16:39
Calibration Blank	T000425-CCB3	100601-1-043	06/01/10 16:42
Calibration Check	T000425-CCV4	100601-1-055	06/01/10 17:06

Form 5

ANALYSIS BATCH (SEQUENCE) SUMMARY

7470A-STLC

Laboratory:	TestAmerica Irvine	SDG:	
Client:	TestAmerica Seattle	Project:	ERM-West Sacramento
Sequence:	T000425	Instrument:	CV-Hg2
		Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Blank	T000425-CCB4	100601-1-056	06/01/10 17:09
Calibration Check	T000425-CCV5	100601-1-064	06/01/10 17:28
Calibration Blank	T000425-CCB5	100601-1-066	06/01/10 17:31
Calibration Check	T000425-CCV6	100601-1-075	06/01/10 17:54
Calibration Blank	T000425-CCB6	100601-1-076	06/01/10 17:57
Calibration Check	T000425-CCV7	100601-1-083	06/01/10 18:14
Calibration Blank	T000425-CCB7	100601-1-084	06/01/10 18:16
Instrument RL Check	T000425-CRL3	100601-1-085	06/01/10 18:19

Sample Information Detail Report
Document Name: 100601-1

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	10F0108-BLK1	10F0108
11	11	10F0108-BS1	10F0108
12	12	ITE2518-01	10F0108
13	13	10F0108-MS1	10F0108
14	14	10F0108-MSD1	10F0108
15	15	ITE2518-02	10F0108
16	16	10F0103-BLK1	10F0103
17	17	10F0103-BS1	10F0103
18	18	ITE2408-01	10F0103
19	7	CCV	
20	8	CCB	
21	19	10F0103-MS1	10F0103
22	20	10F0103-MSD1	10F0103
23	21	ITE2408-02	10F0103
24	22	ITE2408-03	10F0103
25	23	ITE2408-04	10F0103
26	24	ITE2408-05	10F0103
27	25	ITE2408-06	10F0103
28	26	ITE2408-07	10F0103
29	27	ITE2408-08	10F0103
30	7	CCV	
31	8	CCB	
32	2	BP CHECK	
33	28	ITE2408-09	10F0103
34	29	ITE2408-10	10F0103
35	30	ITE2518-01	10F0103
36	31	ITE2518-02	10F0103
37	32	10F0104-BLK1	10F0104
38	33	10F0104-BS1	10F0104
39	34	ITE2694-01	10F0104
40	35	10F0104-MS1	10F0104
41	36	10F0104-MSD1	10F0104
42	7	CCV	
43	8	CCB	
44	37	ITE2597-01	10F0104
45	38	ITE2609-01	10F0104
46	39	ITE2611-01	10F0104
47	40	ITE2624-01@2	10F0104
48	41	ITE2614-01	10F0104
49	42	ITE2646-01	10F0104
50	43	ITE2648-01	10F0104
51	44	ITE2649-01	10F0104
52	45	ITE2680-01	10F0104
53	7	CCV	
54	8	CCB	
55	46	ITE2683-01	10F0104
56	47	ITE2705-01	10F0104
57	48	ITE2723-01	10F0104

58	49	ITE2724-01	10F0104
59	50	ITE2725-01	10F0104
60	51	ITE2768-02	10F0104
61	52	ITE2806-01	10F0104
62	7	CCV	
63	8	CCB	
64	53	ITE2807-01	10F0104
65	54	ITE2808-01	10F0104
66	55	ITF0003-05	10F0104
67	56	10F0107-BLK1	10F0107
68	57	10F0107-BS1	10F0107
69	58	ITE2686-01	10F0107
70	59	10F0107-MS1	10F0107
71	60	10F0107-MSD1	10F0107
72	7	CCV	
73	8	CCB	
74	61	ITE2641-01	10F0107
75	62	ITE2641-02	10F0107
76	63	ITE2641-03	10F0107
77	64	ITE2647-02	10F0107
78	65	ITE2647-03	10F0107
79	66	ITE2647-04	10F0107
80	7	CCV	
81	8	CCB	
82	2	BP CHECK	

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
7	8.0ppb	ug/L
8	0ppb	ug/L
9		ug/L
10		ug/L
11		ug/L
12		ug/L
13		ug/L
14		ug/L
15		ug/L
16		ug/L
17		ug/L
18		ug/L
19		ug/L
20		ug/L
21		ug/L
22		ug/L
23		ug/L
24		ug/L
25		ug/L
26		ug/L
27		ug/L
28		ug/L
29		ug/L
30		ug/L
31		ug/L
32		ug/L
33		ug/L
34		ug/L
35		ug/L
36		ug/L
37		ug/L
38		ug/L
39		ug/L
40		ug/L
41		ug/L

TestAmerica

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LABORATORY NUMBER: ITE2408
PROJECT: ERM-WEST SACRAMENTO
SONOMA MINE SITES

EPA7470A-STLC METALS
Raw Data

17461 Derian Avenue, Ste. 100 Irvine, CA 92614 **tel** 949.261.1022 **fax** 949.260.3297 **www.testamericainc.com**

DATA CHECKLIST

EPA 245.1 / 7470A / 7471A – Mercury by Cold Vapor AAS

Analyst:	DB	2nd Level Review:	TKB
Analysis Date:	6-1-10	Date:	6/2/10
Equipment ID:	CV-Hg2	Method used:	EPA 7470, 245.1
QC Batches:	10F0108, 10F0103, 10F0104, 10F0107		

Analyst Rev	2nd Level Rev	
	✓	**Daily reagent preparation:**
✓		3% HCl made from lot number: H42A18
✓	✓	1.1% Stannous chloride made from lot number: 093481
✓	✓	**Calibration:** Daily, 5-point calibration (lowest standard at 0.2 ppb), in duplicate
✓	✓	Linear, **NOT** forced through zero. Coefficient of linearity r >=0.995
✓	✓	2nd source ICV: EPA 245.1: %R = 95-105
✓	✓	EPA 7470A / 7471A: %R = 90-110
✓	✓	**ICB/CCB:** < RL
✓	✓	**Reporting Limit Check:** as required by special project/programs: 50-150%
✓	✓	**CCV:** every 10 samples/end of run , at different concentration from ICV
✓	✓	EPA 245.1: %R = 90-110
✓	✓	EPA 7470A/7471A: %R = 80-120
✓	✓	**Method blank:** <RL or 0.1x sample concentration
✓	✓	**LCS:** every digestion batch of 20 samples or less
✓	✓	EPA 245.1: %R = 85-115 (>115% if samples ND)
✓	✓	EPA 7470A/7471A : %R = in-house limits (Elmnt)
✓	✓	**MS/MSD:** every digestion batch of 20 samples or less
✓	✓	EPA 245.1: %R = 70-130
✓	✓	EPA 7470A/7471A: %R = in-house limits (Elmnt)
✓	✓	All samples checked for dilutions, accuracy, precision (RSD <=20% for samples >RL), linear range, transcription errors and bracketed between compliant CCV/CCB

Comments:

G:\Metals\Checklist\Hg_CHK5.doc
Rev 02/18/09

Analysis Begun

Logged In Analyst: irvinorg
Technique: AA FIMS-MHS
Spectrometer Model: FIMS-400, S/N B050-9560
Autosampler Model: AS-90

Sample Information File: C:\data-AA\inorg\Sample Information\100601-1.sif
Batch ID:
Results Data Set: 100601-1
Results Library: C:\data-AA\inorg\Results\Results.mdb

Sequence No.: 1
Autosampler Location: 1
Sample ID: Calibration Blank
Date Collected: 6/1/2010 2:54:40 PM
Analyst:
Data Type: Original

Replicate Data: Calibration Blank

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.00]	0.0003	0.0034	0.0003	14:55:32	Yes
2		[0.00]	0.0002	-0.0003	0.0002	14:56:05	Yes
Mean:		[0.00]	0.0002				
SD:		0.00	0.0001				
%RSD:		0.00	41.12				

Auto-zero performed.

Sequence No.: 2
Autosampler Location: 2
Sample ID: 0.2ppb
Date Collected: 6/1/2010 2:57:05 PM
Analyst:
Data Type: Original

Replicate Data: 0.2ppb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[0.2]	0.0026	0.0142	0.0029	14:57:57	Yes
2		[0.2]	0.0028	0.0161	0.0030	14:58:30	Yes
Mean:		[0.2]	0.0027				
SD:		0.0	0.0001				
%RSD:		0.0	3.15				

Standard number 1 applied. [0.2]
Correlation Coef.: 1.000000 Slope: 0.01349 Intercept: 0.00000

Sequence No.: 3
Autosampler Location: 3
Sample ID: 1.0ppb
Date Collected: 6/1/2010 2:59:30 PM
Analyst:
Data Type: Original

Replicate Data: 1.0ppb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[1.0]	0.0118	0.0616	0.0120	15:00:23	Yes
2		[1.0]	0.0117	0.0574	0.0120	15:00:56	Yes
Mean:		[1.0]	0.0118				
SD:		0.0	0.0001				
%RSD:		0.0	0.50				

Standard number 2 applied. [1.0]
Correlation Coef.: 0.999541 Slope: 0.01165 Intercept: 0.00016

Sequence No.: 4
Autosampler Location: 4
Sample ID: 5.0ppb
Date Collected: 6/1/2010 3:01:57 PM
Analyst:
Data Type: Original

Replicate Data: 5.0ppb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[5.0]	0.0551	0.2837	0.0554	15:02:50	Yes

2	[5.0]	0.0555	0.2869	0.0558	15:03:24	Yes
Mean:	[5.0]	0.0553				
SD:	0.0	0.0003				
%RSD:	0.0	0.51				

Standard number 3 applied. [5.0]
Correlation Coef.: 0.999921 Slope: 0.01100 Intercept: 0.00040

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: 10.0ppb **Date Collected: 6/1/2010 3:04:25 PM**
Analyst: **Data Type: Original**

Replicate Data: 10.0ppb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[10.0]	0.1105	0.5763	0.1107	15:05:19	Yes
2		[10.0]	0.1116	0.5861	0.1118	15:05:52	Yes
Mean:		[10.0]	0.1110				
SD:		0.0	0.0008				
%RSD:		0.0	0.70				

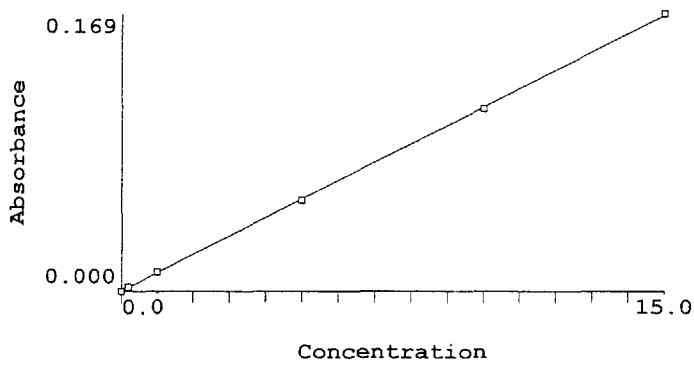
Standard number 4 applied. [10.0]
Correlation Coef.: 0.999979 Slope: 0.01106 Intercept: 0.00034

Sequence No.: 6 **Autosampler Location: 6**
Sample ID: 15.0ppb **Date Collected: 6/1/2010 3:07:20 PM**
Analyst: **Data Type: Original**

Replicate Data: 15.0ppb

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1		[15.0]	0.1680	0.8910	0.1683	15:08:15	Yes
2		[15.0]	0.1705	0.8994	0.1708	15:08:48	Yes
Mean:		[15.0]	0.1693				
SD:		0.0	0.0018				
%RSD:		0.0	1.04				

Standard number 5 applied. [15.0]
Correlation Coef.: 0.999928 Slope: 0.01122 Intercept: 0.00002



Calibration data for Hg 253.7 **Equation: Linear, Calculated Intercept**

ID	Mean Signal (Abs)	Entered Conc. ug/L	Calculated Conc. ug/L	Standard Deviation	%RSD
Calibration Blank	0.0000	0	-0.002	0.00	41.1
0.2ppb	0.0027	0.2	0.239	0.00	3.2
1.0ppb	0.0118	1.0	1.048	0.00	0.5
5.0ppb	0.0553	5.0	4.930	0.00	0.5
10.0ppb	0.1110	10.0	9.896	0.00	0.7
15.0ppb	0.1693	15.0	15.089	0.00	1.0

Correlation Coef.: 0.999928 Slope: 0.01122 Intercept: 0.00002

Analytical Sequence
Method: FIMS-Hg2
Seq. Loc. ID Status

1	1	Calibration Blank	Applied
2	2	0.2ppb	Applied
3	3	1.0ppb	Applied
4	4	5.0ppb	Applied
5	5	10.0ppb	Applied
6	6	15.0ppb	Applied

Analysis Begun

Logged In Analyst: irvinorg
Technique: AA FIMS-MHS
Spectrometer Model: FIMS-400, S/N B050-9560
Autosampler Model: AS-90

Sample Information File: C:\data-AA\inorg\Sample Information\100601-1.sif
Batch ID:
Results Data Set: 100601-1
Results Library: C:\data-AA\inorg\Results\Results.mdb

Sequence No.: 1
Autosampler Location: 9
Sample ID: ICV
Date Collected: 6/1/2010 3:10:30 PM
Analyst:
Data Type: Original

Replicate Data: ICV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	8.280	8.280	0.0929	0.4860	0.0931	15:11:22	Yes
2	8.236	8.236	0.0924	0.4825	0.0926	15:11:55	Yes
Mean:	8.258	8.258	0.0927				
SD:	0.031	0.031	0.0004				
%RSD:	0.378	0.378	0.38				

Sequence No.: 2
Autosampler Location: 8
Sample ID: ICB
Date Collected: 6/1/2010 3:13:20 PM
Analyst:
Data Type: Original

Replicate Data: ICB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.005	-0.005	-0.0000	0.0003	0.0002	15:14:15	Yes
2	0.005	0.005	0.0001	-0.0009	0.0003	15:14:48	Yes
Mean:	0.000	0.000	0.0000				
SD:	0.007	0.007	0.0001				
%RSD:	>999.9%	>999.9%	337.82				

Sequence No.: 3
Autosampler Location: 2
Sample ID: .2PPB
Date Collected: 6/1/2010 3:15:50 PM
Analyst:
Data Type: Original

Replicate Data: .2PPB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.263	0.263	0.0030	0.0191	0.0032	15:16:42	Yes
2	0.236	0.236	0.0027	0.0137	0.0029	15:17:15	Yes
Mean:	0.249	0.249	0.0028				
SD:	0.019	0.019	0.0002				
%RSD:	7.660	7.660	7.60				

Sequence No.: 4
Autosampler Location: 10
Sample ID: 10F0108-BLK1
Date Collected: 6/1/2010 3:18:16 PM
Analyst:
Data Type: Original

Replicate Data: 10F0108-BLK1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.013	-0.013	-0.0001	-0.0008	0.0001	15:19:08	Yes
2	-0.012	-0.012	-0.0001	-0.0012	0.0001	15:19:41	Yes
Mean:	-0.013	-0.013	-0.0001				
SD:	0.001	0.001	0.0000				
%RSD:	5.888	5.888	6.85				

SD:	0.037	0.037	0.0004
%RSD:	>999.9%	>999.9%	>999.9%

Sequence No.: 10
Sample ID: 10F0103-BLK1
Analyst:
Autosampler Location: 16
Date Collected: 6/1/2010 3:34:22 PM
Data Type: Original

Replicate Data: 10F0103-BLK1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.015	-0.015	-0.0001	-0.0014	0.0001	15:35:18	Yes
2	0.001	0.001	0.0000	0.0000	0.0003	15:35:50	Yes
Mean:	-0.007	-0.007	-0.0001				
SD:	0.011	0.011	0.0001				
%RSD:	158.1	158.1	212.65				

Sequence No.: 11
Sample ID: 10F0103-BS1
Analyst:
Autosampler Location: 17
Date Collected: 6/1/2010 3:36:53 PM
Data Type: Original

Replicate Data: 10F0103-BS1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	6.911	6.911	0.0775	0.4226	0.0778	15:37:45	Yes
2	7.100	7.100	0.0797	0.4160	0.0799	15:38:18	Yes
Mean:	7.006	7.006	0.0786				
SD:	0.134	0.134	0.0015				
%RSD:	1.908	1.908	1.91				

Sequence No.: 12
Sample ID: ITE2408-01
Analyst:
Autosampler Location: 18
Date Collected: 6/1/2010 3:39:17 PM
Data Type: Original

Replicate Data: ITE2408-01

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.708	1.708	0.0192	0.1031	0.0194	15:40:09	Yes
2	1.734	1.734	0.0195	0.1027	0.0197	15:40:42	Yes
Mean:	1.721	1.721	0.0193				
SD:	0.018	0.018	0.0002				
%RSD:	1.070	1.070	1.07				

Sequence No.: 13
Sample ID: CCV
Analyst:
Autosampler Location: 7
Date Collected: 6/1/2010 3:41:42 PM
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.263	4.263	0.0478	0.2567	0.0481	15:42:37	Yes
2	4.344	4.344	0.0488	0.2583	0.0490	15:43:10	Yes
Mean:	4.303	4.303	0.0483				
SD:	0.058	0.058	0.0006				
%RSD:	1.345	1.345	1.34				

Sequence No.: 14
Sample ID: CCB
Analyst:
Autosampler Location: 8
Date Collected: 6/1/2010 3:44:13 PM
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	-0.010	-0.010	-0.0001	0.0004	0.0001	15:45:08	Yes
2	-0.003	-0.003	-0.0000	0.0009	0.0002	15:45:41	Yes
Mean:	-0.006	-0.006	-0.0001				
SD:	0.005	0.005	0.0001				
%RSD:	72.75	72.75	101.90				

Sequence No.: 15
Sample ID: 10F0103-MS1
Analyst:
Autosampler Location: 19
Date Collected: 6/1/2010 3:46:45 PM
Data Type: Original

Replicate Data: 10F0103-MS1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.022	5.022	0.0564	0.3122	0.0566	15:47:37	Yes
2	4.988	4.988	0.0560	0.3001	0.0562	15:48:10	Yes
Mean:	5.005	5.005	0.0562				
SD:	0.024	0.024	0.0003				
%RSD:	0.487	0.487	0.49				

Sequence No.: 16
Sample ID: 10F0103-MSD1
Analyst:
Autosampler Location: 20
Date Collected: 6/1/2010 3:49:10 PM
Data Type: Original

Replicate Data: 10F0103-MSD1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.844	4.844	0.0544	0.2949	0.0546	15:50:02	Yes
2	4.867	4.867	0.0546	0.2908	0.0549	15:50:35	Yes
Mean:	4.856	4.856	0.0545				
SD:	0.016	0.016	0.0002				
%RSD:	0.334	0.334	0.33				

Sequence No.: 17
Sample ID: ITE2408-02
Analyst:
Autosampler Location: 21
Date Collected: 6/1/2010 3:51:35 PM
Data Type: Original

Replicate Data: ITE2408-02

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.011	0.011	0.0001	0.0029	0.0004	15:52:28	Yes
2	0.000	0.000	0.0000	-0.0000	0.0002	15:53:00	Yes
Mean:	0.006	0.006	0.0001				
SD:	0.008	0.008	0.0001				
%RSD:	141.7	141.7	107.10				

Sequence No.: 18
Sample ID: ITE2408-03
Analyst:
Autosampler Location: 22
Date Collected: 6/1/2010 3:54:01 PM
Data Type: Original

Replicate Data: ITE2408-03

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.019	-0.019	-0.0002	-0.0008	0.0000	15:54:53	Yes
2	-0.008	-0.008	-0.0001	0.0018	0.0002	15:55:26	Yes
Mean:	-0.014	-0.014	-0.0001				
SD:	0.008	0.008	0.0001				
%RSD:	57.70	57.70	66.48				

Sequence No.: 19
Sample ID: ITE2408-04
Analyst:
Autosampler Location: 23
Date Collected: 6/1/2010 3:56:27 PM
Data Type: Original

Replicate Data: ITE2408-04

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.547	0.547	0.0062	0.0319	0.0064	15:57:20	Yes
2	0.546	0.546	0.0061	0.0303	0.0064	15:57:53	Yes
Mean:	0.547	0.547	0.0062				
SD:	0.001	0.001	0.0000				
%RSD:	0.111	0.111	0.11				

==========

Sequence No.: 20 Autosampler Location: 24
Sample ID: ITE2408-05 Date Collected: 6/1/2010 3:58:54 PM
Analyst: Data Type: Original

Replicate Data: ITE2408-05

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.062	0.062	0.0007	0.0053	0.0009	15:59:47	Yes
2	0.056	0.056	0.0007	0.0049	0.0009	16:00:20	Yes
Mean:	0.059	0.059	0.0007				
SD:	0.004	0.004	0.0000				
%RSD:	6.158	6.158	5.98				

==========

Sequence No.: 21 Autosampler Location: 25
Sample ID: ITE2408-06 Date Collected: 6/1/2010 4:01:21 PM
Analyst: Data Type: Original

Replicate Data: ITE2408-06

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.029	0.029	0.0003	0.0040	0.0006	16:02:15	Yes
2	0.026	0.026	0.0003	0.0039	0.0005	16:02:48	Yes
Mean:	0.028	0.028	0.0003				
SD:	0.002	0.002	0.0000				
%RSD:	6.594	6.594	6.19				

==========

Sequence No.: 22 Autosampler Location: 26
Sample ID: ITE2408-07 Date Collected: 6/1/2010 4:03:49 PM
Analyst: Data Type: Original

Replicate Data: ITE2408-07

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.160	0.160	0.0018	0.0107	0.0020	16:04:43	Yes
2	0.159	0.159	0.0018	0.0098	0.0020	16:05:15	Yes
Mean:	0.160	0.160	0.0018				
SD:	0.001	0.001	0.0000				
%RSD:	0.494	0.494	0.49				

==========

Sequence No.: 23 Autosampler Location: 27
Sample ID: ITE2408-08 Date Collected: 6/1/2010 4:06:16 PM
Analyst: Data Type: Original

Replicate Data: ITE2408-08

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.033	0.033	0.0004	0.0082	0.0006	16:07:10	Yes
2	-0.016	-0.016	-0.0002	-0.0004	0.0001	16:07:43	Yes
Mean:	0.009	0.009	0.0001				
SD:	0.035	0.035	0.0004				
%RSD:	405.2	405.2	334.84				

==========

Sequence No.: 24 Autosampler Location: 7
Sample ID: CCV Date Collected: 6/1/2010 4:08:45 PM

Analyst: Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.313	4.313	0.0484	0.2606	0.0486	16:09:40	Yes
2	4.337	4.337	0.0487	0.2633	0.0489	16:10:13	Yes
Mean:	4.325	4.325	0.0485				
SD:	0.017	0.017	0.0002				
%RSD:	0.388	0.388	0.39				

Sequence No.: 25 Autosampler Location: 8
Sample ID: CCB Date Collected: 6/1/2010 4:11:16 PM
Analyst: Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.009	0.009	0.0001	0.0035	0.0004	16:12:11	Yes
2	0.002	0.002	0.0000	0.0013	0.0003	16:12:43	Yes
Mean:	0.006	0.006	0.0001				
SD:	0.005	0.005	0.0001				
%RSD:	87.18	87.18	66.56				

Sequence No.: 26 Autosampler Location: 2
Sample ID: BP CHECK Date Collected: 6/1/2010 4:13:47 PM
Analyst: Data Type: Original

Replicate Data: BP CHECK

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.267	0.267	0.0030	0.0177	0.0032	16:14:39	Yes
2	0.251	0.251	0.0028	0.0155	0.0031	16:15:12	Yes
Mean:	0.259	0.259	0.0029				
SD:	0.011	0.011	0.0001				
%RSD:	4.150	4.150	4.12				

Sequence No.: 27 Autosampler Location: 28
Sample ID: ITE2408-09 Date Collected: 6/1/2010 4:16:12 PM
Analyst: Data Type: Original

Replicate Data: ITE2408-09

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.004	0.004	0.0001	-0.0000	0.0003	16:17:06	Yes
2	0.012	0.012	0.0002	0.0017	0.0004	16:17:39	Yes
Mean:	0.008	0.008	0.0001				
SD:	0.006	0.006	0.0001				
%RSD:	70.75	70.75	58.15				

Sequence No.: 28 Autosampler Location: 29
Sample ID: ITE2408-10 Date Collected: 6/1/2010 4:18:40 PM
Analyst: Data Type: Original

Replicate Data: ITE2408-10

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.069	0.069	0.0008	0.0070	0.0010	16:19:36	Yes
2	0.050	0.050	0.0006	0.0045	0.0008	16:20:08	Yes
Mean:	0.060	0.060	0.0007				
SD:	0.014	0.014	0.0002				
%RSD:	22.96	22.96	22.29				

SD:	0.001	0.001	0.0000
%RSD:	13.50	13.50	11.12

Sequence No.: 34
Sample ID: 10F0104-MS1
Analyst:
Autosampler Location: 35
Date Collected: 6/1/2010 4:33:51 PM
Data Type: Original

Replicate Data: 10F0104-MS1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	8.228	8.228	0.0923	0.5158	0.0925	16:34:44	Yes
2	8.359	8.359	0.0938	0.5146	0.0940	16:35:16	Yes
Mean:	8.293	8.293	0.0931				
SD:	0.093	0.093	0.0010				
%RSD:	1.120	1.120	1.12				

Sequence No.: 35
Sample ID: 10F0104-MSD1
Analyst:
Autosampler Location: 36
Date Collected: 6/1/2010 4:36:43 PM
Data Type: Original

Replicate Data: 10F0104-MSD1

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	8.171	8.171	0.0917	0.5094	0.0919	16:37:35	Yes
2	8.226	8.226	0.0923	0.5082	0.0925	16:38:08	Yes
Mean:	8.199	8.199	0.0920				
SD:	0.038	0.038	0.0004				
%RSD:	0.468	0.468	0.47				

Sequence No.: 36
Sample ID: CCV
Analyst:
Autosampler Location: 7
Date Collected: 6/1/2010 4:39:33 PM
Data Type: Original

Replicate Data: CCV

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.185	4.185	0.0470	0.2624	0.0472	16:40:27	Yes
2	4.184	4.184	0.0470	0.2566	0.0472	16:41:00	Yes
Mean:	4.185	4.185	0.0470				
SD:	0.001	0.001	0.0000				
%RSD:	0.023	0.023	0.02				

Sequence No.: 37
Sample ID: CCB
Analyst:
Autosampler Location: 8
Date Collected: 6/1/2010 4:42:03 PM
Data Type: Original

Replicate Data: CCB

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.007	0.007	0.0001	0.0007	0.0003	16:42:58	Yes
2	0.019	0.019	0.0002	0.0030	0.0005	16:43:31	Yes
Mean:	0.013	0.013	0.0002				
SD:	0.009	0.009	0.0001				
%RSD:	69.34	69.34	60.79				

Sequence No.: 38
Sample ID: ITE2597-01
Analyst:
Autosampler Location: 37
Date Collected: 6/1/2010 4:44:34 PM
Data Type: Original

Replicate Data: ITE2597-01

Repl #	SampleConc ug/L	StndConc ug/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

TestAmerica

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QA/QC PACKAGE:	LEVEL IV
PREPARED FOR:	TESTAMERICA, INC. - SEATTLE
LABORATORY NUMBER:	ITE2408
PROJECT:	ERM-WEST SACRAMENTO SONOMA MINE SITES

END OF DATA PACKAGE

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19393

Chain of Custody Record

Client: Ecoboyard Environment Inc	Client Contact: Jim Petersen	Date: 5-10-10	Chain of Custody Number: 7239
Address: 333 SW Fifth Ave Suite 600	Telephone Number (Area Code)/Fax Number: 503-248-5600 ex: 2719	Lab Number: ~~5-10~~	Page 1 of 2
City: Portland; State: OR; Zip Code: 97204	Sampler: R. Jarvis	Lab Contact: Terri Torres	
Project Name and Location (State): Helen, Contact, and Sonoma Mine Sites	Billing Contact:		
Contract/Purchase Order/Quote No.: 001096.0X75/74 Sonoma/Lake County CA			

Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis (Attach list if more space is needed): TAL Metals + Hg	TAL Metals	Low Level Hg	CA Wet Chem	Special Instructions/ Conditions of Receipt
1 01CMMW	5-2-10	1040				X	X						X				
2 02CMSB	4-26-10	1226				X	X						X			X	
3 03CMMW	4-27-10	0830				X	X						X				
4 04CMSB	5-2-10	1325				X	X						X			X	
5 05CMMW	5-3-10	0930				X	X						X				
6 06CMSB	5-3-10	1300				X	X						X			X	
7 07CMMW	5-2-10	1614				X	X						X				
8 01SMMW	4-23-10	1458				X	X						X				
9 02SMSB	4-24-10	1130				X	X						X			X	
10 04SMMW	4-25-10	0763				X	X						X				
11 05SMSB-B	4-26-10	0910				X	X						X			X	
12 06SMMW-B	4-26-10	0745				X	X						X				

Page 754 of 756

Cooler: ☐ Yes ☐ No Cooler Temp:_____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For_____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify):

	Date	Time		Date	Time
1. Relinquished By Sign/Print: [signature]	5-17-10	0900	1. Received By Sign/Print: [signature] KPresley	5/18/10	0950
2. Relinquished By Sign/Print			2. Received By Sign/Print		
3. Relinquished By Sign/Print			3. Received By Sign/Print		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

TestAmerica

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Chain of Custody Record

19393

Client: Ecology and Environment, Inc.	Client Contact: Jim Petersen	Date: 5-10-10	Chain of Custody Number: 7236
Address: 333 SW fifth Ave Suite 600	Telephone Number (Area Code)/Fax Number: 503-248-5600 ex 2719	Lab Number	Page 2 of 2
City: Portland; State: OR; Zip Code: 97204	Sampler: R. Jarvis	Lab Contact: Terri Torres	
Project Name and Location (State): Helen, Contact and Sonoma Mine Sites	Billing Contact		
Contract/Purchase Order/Quote No.: 001096.0X74/75			

Analysis (Attach list if more space is needed)

Special Instructions/ Conditions of Receipt

	Sample I.D. and Location/Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	TAL Metals + HG	TAL Metals Low level Hg	CA Wet Test
13	07SMMW	5-2-10	0830				X	X						X		
14	08SMSB	4-25-10	1517				X	X						X		X
15	01HMMW	5-8-10	1140				X	X						X		
16	02HMSB	5-8-10	0838				X	X						X		X
17	04HMMW	5-8-10	1420				X	X						X		
18	05HMSB	5-11-10	1315				X	X						X		X
19	07HMMWB	5-8-10	1556				X	X						X		
20	08HMSB	5-7-10	1540				X	X						X		X
21	09SMMW	4-25-10	1416				X	X						X		X

Page 755 of 756

Cooler: ☐ Yes ☐ No Cooler Temp:_____

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☐ Disposal By Lab ☐ Archive For_____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required (business days): ☐ 24 Hours ☐ 48 Hours ☐ 5 Days ☐ 10 Days ☐ 15 Days ☐ Other _____

QC Requirements (Specify)

	Date	Time		Date	Time
1. Relinquished By Sign/Print: Courtney Funk	5-17-10	0900	1. Received By Sign/Print: K Wesley	5/18/10	0950
2. Relinquished By Sign/Print			2. Received By Sign/Print		
3. Relinquished By Sign/Print			3. Received By Sign/Print		

Comments

DISTRIBUTION: WHITE – Stays with the Samples; CANARY – Returned to Client with Report; PINK – Field Copy

TAL-8274-580 (0210)

Login Sample Receipt Check List

Client: Ecology and Environment, Inc.

Job Number: 580-19393-1

Login Number: 19393

List Source: TestAmerica Tacoma

Creator: Presley, Kim

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background		
The cooler's custody seal, if present, is intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
There are no discrepancies between the sample IDs on the containers and the COC.		
Samples are received within Holding Time.		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.		
If necessary, staff have been informed of any short hold time or quick TAT needs		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Is the Field Sampler's name present on COC?		
Sample Preservation Verified		