B Laboratory Results

ANALYTICAL REPORT

Job Number: 580-19403-1

Job Description: Contact and Sonoma Mine Sites

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

Attention: Jim Petersen

Approved for release.
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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.

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 49
- Data Qualifiers 65
- QC Association Summary 66

Inorganic Sample Data 70

- Metals Data 70
  - Met Cover Page 71
  - Met Sample Data 72
  - Met QC Data 99
    - Met ICV/CCV 99
    - Met CRQL 105
    - Met Blanks 107
    - Met ICSA/ICSAB 117
    - Met MS/MSD/PDS 123
    - Met Duplicates 126
    - Met LCS/LCSD 127
    - Met Serial Dilution 136
  - Met MDL 137
  - Met Linear Ranges 140
  - Met Preparation Log 142
  - Met Analysis Run Log 145

Table of Contents

Met ICP/MS Int Stds 155

Met Raw Data 161

Met Prep Data 289

General Chemistry Data 298

Gen Chem Cover Page 299

Gen Chem MDL 300

Gen Chem Analysis Run Log 301

Gen Chem Prep Data 303

Subcontracted Data 306

Shipping and Receiving Documents 656

Client Chain of Custody 657

Sample Receipt Checklist 660

CASE NARRATIVE

Client: Ecology and Environment, Inc.
Project: Contact and Sonoma Mine Sites
Report Number: 580-19403-1

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 05/18/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.8, 2.3 and 3.8 C.

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 580-19403-5 through 580-19403-8 and 580-19403-18 through 580-19403-27 were analyzed for total metals in accordance with EPA SW-846 Method 6020. The samples were prepared on 05/28/2010 and analyzed on 06/02/2010.

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.

DISSOLVED METALS
Samples 580-19403-1 through 580-19403-4 and 580-19403-9 through 580-19403-17 were analyzed for dissolved metals in accordance with EPA SW-846 Method 6020. The samples were prepared on 05/21/2010 and analyzed on 05/24/2010.

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 dissolved metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY
Samples 580-19403-18 through 580-19403-20 and 580-19403-22 through 580-19403-27 were analyzed for total mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared on 05/24/2010 and analyzed on 05/26/2010.

Samples 580-19403-18 through 580-19403-20, 580-19403-22 through 580-19403-27 required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the total mercury analyses.

All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS
Samples 580-19403-5 through 580-19403-8 and 580-19403-18 through 580-19403-27 were analyzed for percent solids in accordance with EPA Method 160.3 Modified. The samples were analyzed on 05/21/2010 and 05/25/2010.

No difficulties were encountered during the % solids analyses.

All quality control parameters were within the acceptance limits.

SUBCONTRACT

TestAmerica North Canton analyzed samples 580-19403-1 through 580-19403-17 and 580-19403-21 for low-level mercury. The analytical results and raw data are located in the subcontract section of this data package.

TestAmerica North Canton analyzed samples 580-19403-1 through 580-19403-7, 580-19403-9 though 580-19403-17 for methyl mercury. 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: 580-19403-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
580-19403-1	09HMMW	Water	05/16/2010 1115	05/18/2010 0950
580-19403-2	01CMMW	Water	05/15/2010 1350	05/18/2010 0950
580-19403-3	03CMMW	Water	05/16/2010 1625	05/18/2010 0950
580-19403-4	07CMMW	Water	05/16/2010 1545	05/18/2010 0950
580-19403-5	01HMSD	Solid	05/04/2010 1300	05/18/2010 0950
580-19403-6	02HMSD	Solid	05/04/2010 1545	05/18/2010 0950
580-19403-7	03HMSD	Solid	05/07/2010 1339	05/18/2010 0950
580-19403-8	03CSBG	Solid	05/16/2010 1510	05/18/2010 0950
580-19403-9	01SMMW	Water	05/15/2010 1200	05/18/2010 0950
580-19403-10	04SMMW	Water	05/14/2010 1845	05/18/2010 0950
580-19403-11	06SMMW	Water	05/14/2010 1655	05/18/2010 0950
580-19403-12	07SMMW	Water	05/14/2010 1420	05/18/2010 0950
580-19403-13	09SMMW	Water	05/14/2010 1330	05/18/2010 0950
580-19403-14	01HMMW	Water	05/16/2010 0800	05/18/2010 0950
580-19403-15	03HMSW	Water	05/16/2010 0830	05/18/2010 0950
580-19403-16	04HMMW	Water	05/16/2010 1000	05/18/2010 0950
580-19403-17	06HMMW	Water	05/16/2010 1200	05/18/2010 0950
580-19403-18	18SMSS	Solid	05/10/2010 0915	05/18/2010 0950
580-19403-19	COMPHMRT	Solid	05/05/2010 0917	05/18/2010 0950
580-19403-20	01HMRT	Solid	05/05/2010 0855	05/18/2010 0950
580-19403-21	01HMBG	Solid	05/07/2010 0825	05/18/2010 0950
580-19403-22	04SMSS	Solid	05/09/2010 0830	05/18/2010 0950
580-19403-23	05SMSS	Solid	05/09/2010 0840	05/18/2010 0950
580-19403-24	06SMSS	Solid	05/09/2010 0846	05/18/2010 0950
580-19403-25	07SMSS	Solid	05/09/2010 0910	05/18/2010 0950
580-19403-26	08SMSS	Solid	05/09/2010 0925	05/18/2010 0950
580-19403-27	09SMSS	Solid	05/09/2010 0935	05/18/2010 0950

METHOD SUMMARY

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

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	
Monomethyl Mercury	TAL NC	EPA 1630 Mod.	
EPA 1631E Low Level Mercury	TAL NC	EPA 1631E	
Matrix: Water			
Metals (ICP/MS)	TAL TAC	SW846 6020	
Sample Filtration, Field	TAL TAC		FIELD_FLTRD
Preparation, Total Recoverable or Dissolved Metals	TAL TAC		SW846 3005A
Monomethyl Mercury	TAL NC	EPA 1630 Mod.	
EPA 1631E Low Level Mercury	TAL NC	EPA 1631E	

Lab References:

TAL NC = TestAmerica North Canton

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: 580-19403-1

Client Sample ID: **09HMMW**

Lab Sample ID: 580-19403-1 Date Sampled: 05/16/2010 1115
Client Matrix: Water Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)-Dissolved

Method:	6020	Analysis Batch: 580-64208		Instrument ID:	SEA044
Preparation:	3005A	Prep Batch: 580-64088		Lab File ID:	035SMPL.D
Dilution:	5.0			Initial Weight/Volume:	50 mL
Date Analyzed:	05/24/2010 1101			Final Weight/Volume:	50 mL
Date Prepared:	05/21/2010 1218				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	ND	^	0.0020
Antimony	ND	^	0.0020
Barium	ND	^	0.0060
Beryllium	ND		0.0020
Cadmium	ND		0.0020
Chromium	0.014	^	0.0020
Lead	ND		0.0020
Cobalt	ND	^	0.0020
Copper	ND	^	0.0050
Iron	ND		0.20
Manganese	0.0022	^	0.0020
Nickel	0.0034	^	0.0020
Selenium	ND		0.0020
Silver	ND		0.0020
Thallium	ND		0.0040
Vanadium	0.0051		0.0020
Zinc	ND	^	0.0070
Aluminum	ND		0.40
Magnesium	52		4.0
Potassium	ND		50
Sodium	ND		50
Calcium	ND		50

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **01CMMW**

Lab Sample ID: 580-19403-2 Date Sampled: 05/15/2010 1350
Client Matrix: Water Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)-Dissolved

Method:	6020	Analysis Batch: 580-64208		Instrument ID:	SEA044
Preparation:	3005A	Prep Batch: 580-64088		Lab File ID:	040SMPL
Dilution:	5.0			Initial Weight/Volume:	50 mL
Date Analyzed:	05/24/2010 1132			Final Weight/Volume:	50 mL
Date Prepared:	05/21/2010 1218				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	ND	^	0.0020
Antimony	0.0020	^	0.0020
Barium	0.057	^	0.0060
Beryllium	ND		0.0020
Cadmium	ND		0.0020
Chromium	ND	^	0.0020
Lead	ND		0.0020
Cobalt	ND	^	0.0020
Copper	ND	^	0.0050
Iron	ND		0.20
Manganese	0.0085	^	0.0020
Nickel	ND	^	0.0020
Selenium	ND		0.0020
Silver	ND		0.0020
Thallium	ND		0.0040
Vanadium	0.0033		0.0020
Zinc	ND	^	0.0070
Aluminum	ND		0.40
Magnesium	14		4.0
Potassium	ND		50
Sodium	ND		50
Calcium	ND		50

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **03CMMW**

Lab Sample ID: 580-19403-3 Date Sampled: 05/16/2010 1625
Client Matrix: Water Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)-Dissolved

Method:	6020	Analysis Batch: 580-64208		Instrument ID:	SEA044
Preparation:	3005A	Prep Batch: 580-64088		Lab File ID:	041SMPL
Dilution:	5.0			Initial Weight/Volume:	50 mL
Date Analyzed:	05/24/2010 1138			Final Weight/Volume:	50 mL
Date Prepared:	05/21/2010 1218				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	ND	^	0.0020
Antimony	ND	^	0.0020
Barium	0.26	^	0.0060
Beryllium	ND		0.0020
Cadmium	ND		0.0020
Chromium	0.0025	^	0.0020
Lead	ND		0.0020
Cobalt	ND	^	0.0020
Copper	ND	^	0.0050
Iron	ND		0.20
Manganese	0.027	^	0.0020
Nickel	0.0039	^	0.0020
Selenium	ND		0.0020
Silver	ND		0.0020
Thallium	ND		0.0040
Vanadium	0.0045		0.0020
Zinc	ND	^	0.0070
Aluminum	ND		0.40
Magnesium	34		4.0
Potassium	ND		50
Sodium	ND		50
Calcium	ND		50

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **07CMMW**

Lab Sample ID: 580-19403-4 Date Sampled: 05/16/2010 1545
Client Matrix: Water Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)-Dissolved

Method:	6020	Analysis Batch: 580-64208		Instrument ID:	SEA044
Preparation:	3005A	Prep Batch: 580-64088		Lab File ID:	042SMPL
Dilution:	5.0			Initial Weight/Volume:	50 mL
Date Analyzed:	05/24/2010 1144			Final Weight/Volume:	50 mL
Date Prepared:	05/21/2010 1218				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	0.0026	^	0.0020
Antimony	ND	^	0.0020
Barium	0.049	^	0.0060
Beryllium	ND		0.0020
Cadmium	ND		0.0020
Chromium	ND	^	0.0020
Lead	ND		0.0020
Cobalt	ND	^	0.0020
Copper	ND	^	0.0050
Iron	ND		0.20
Manganese	0.023	^	0.0020
Nickel	ND	^	0.0020
Selenium	ND		0.0020
Silver	ND		0.0020
Thallium	ND		0.0040
Vanadium	0.0077		0.0020
Zinc	0.017	^	0.0070
Aluminum	ND		0.40
Magnesium	38		4.0
Potassium	ND		50
Sodium	ND		50
Calcium	ND		50

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **01HMSD**

Lab Sample ID: 580-19403-5 Date Sampled: 05/04/2010 1300
Client Matrix: Solid % Moisture: 56.9 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64624		Lab File ID:	074SMPL
Dilution:	10			Initial Weight/Volume:	1.0694 g
Date Analyzed:	06/02/2010 1944			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		2.0	^	0.43
Antimony		ND	^	0.43
Barium		200		0.43
Beryllium		ND		0.43
Cadmium		ND		0.43
Chromium		160	^	0.43
Lead		ND		0.43
Cobalt		1200	^	0.43
Copper		2.7	^	0.43
Iron		420000		43
Manganese		16000	^	1.1
Nickel		10000	^	0.43
Selenium		ND		1.1
Silver		ND		0.43
Thallium		ND		0.87
Vanadium		3.5		0.43
Zinc		310	^	1.5
Aluminum		920		65
Magnesium		21000		220
Potassium		ND		220
Sodium		ND		220
Calcium		6700		220

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **02HMSD**

Lab Sample ID: 580-19403-6 Date Sampled: 05/04/2010 1545
Client Matrix: Solid % Moisture: 11.0 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64624		Lab File ID:	075SMPL
Dilution:	10			Initial Weight/Volume:	1.1235 g
Date Analyzed:	06/02/2010 1952			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		5.4	^	0.20
Antimony		0.22	^	0.20
Barium		110		0.20
Beryllium		0.33		0.20
Cadmium		ND		0.20
Chromium		150	^	0.20
Lead		6.5		0.20
Cobalt		32	^	0.20
Copper		25	^	0.20
Iron		38000		20
Manganese		650	^	0.50
Nickel		480	^	0.20
Selenium		ND		0.50
Silver		ND		0.20
Thallium		ND		0.40
Vanadium		46		0.20
Zinc		60	^	0.70
Aluminum		13000		30
Magnesium		40000		100
Potassium		470		100
Sodium		ND		100
Calcium		5000		100

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **03HMSD**

Lab Sample ID: 580-19403-7 Date Sampled: 05/07/2010 1339
Client Matrix: Solid % Moisture: 20.9 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64624		Lab File ID:	076SMPL
Dilution:	10			Initial Weight/Volume:	1.1869 g
Date Analyzed:	06/02/2010 1959			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		0.47	^	0.21
Antimony		ND	^	0.21
Barium		19		0.21
Beryllium		ND		0.21
Cadmium		ND		0.21
Chromium		610	^	0.21
Lead		0.54		0.21
Cobalt		88	^	0.21
Copper		6.7	^	0.21
Iron		100000		21
Manganese		520	^	0.53
Nickel		2000	^	0.21
Selenium		ND		0.53
Silver		ND		0.21
Thallium		ND		0.43
Vanadium		13		0.21
Zinc		24	^	0.75
Aluminum		1000		32
Magnesium		170000		110
Potassium		ND		110
Sodium		ND		110
Calcium		1800		110

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **03CSBG**

Lab Sample ID: 580-19403-8 Date Sampled: 05/16/2010 1510
Client Matrix: Solid % Moisture: 3.0 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64624		Lab File ID:	077SMPL
Dilution:	10			Initial Weight/Volume:	1.0042 g
Date Analyzed:	06/02/2010 2006			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		8.3	^	0.21
Antimony		0.62	^	0.21
Barium		240		0.21
Beryllium		0.78		0.21
Cadmium		ND		0.21
Chromium		160	^	0.21
Lead		12		0.21
Cobalt		26	^	0.21
Copper		46	^	0.21
Iron		39000		21
Manganese		860	^	0.51
Nickel		240	^	0.21
Selenium		ND		0.51
Silver		ND		0.21
Thallium		ND		0.41
Vanadium		64		0.21
Zinc		71	^	0.72
Aluminum		20000		31
Magnesium		19000		100
Potassium		900		100
Sodium		ND		100
Calcium		2000		100

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **01SMMW**

Lab Sample ID: 580-19403-9 Date Sampled: 05/15/2010 1200
Client Matrix: Water Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)-Dissolved

Method:	6020	Analysis Batch: 580-64208		Instrument ID:	SEA044
Preparation:	3005A	Prep Batch: 580-64088		Lab File ID:	045SMP
Dilution:	5.0			Initial Weight/Volume:	50 mL
Date Analyzed:	05/24/2010 1202			Final Weight/Volume:	50 mL
Date Prepared:	05/21/2010 1218				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	0.0032	^	0.0020
Antimony	0.0024	^	0.0020
Barium	0.049	^	0.0060
Beryllium	ND		0.0020
Cadmium	ND		0.0020
Chromium	ND	^	0.0020
Lead	ND		0.0020
Cobalt	ND	^	0.0020
Copper	ND	^	0.0050
Iron	ND		0.20
Manganese	0.097	^	0.0020
Nickel	0.0032	^	0.0020
Selenium	ND		0.0020
Silver	ND		0.0020
Thallium	ND		0.0040
Vanadium	0.0054		0.0020
Zinc	ND	^	0.0070
Aluminum	ND		0.40
Magnesium	33		4.0
Potassium	ND		50
Sodium	ND		50
Calcium	73		50

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **04SMMW**

Lab Sample ID: 580-19403-10 Date Sampled: 05/14/2010 1845
Client Matrix: Water Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)-Dissolved

Method:	6020	Analysis Batch: 580-64208		Instrument ID:	SEA044
Preparation:	3005A	Prep Batch: 580-64088		Lab File ID:	046SMPL
Dilution:	5.0			Initial Weight/Volume:	50 mL
Date Analyzed:	05/24/2010 1208			Final Weight/Volume:	50 mL
Date Prepared:	05/21/2010 1218				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	0.0030	^	0.0020
Antimony	ND	^	0.0020
Barium	0.0085	^	0.0060
Beryllium	ND		0.0020
Cadmium	ND		0.0020
Chromium	ND	^	0.0020
Lead	ND		0.0020
Cobalt	ND	^	0.0020
Copper	ND	^	0.0050
Iron	ND		0.20
Manganese	0.032	^	0.0020
Nickel	0.0025	^	0.0020
Selenium	ND		0.0020
Silver	ND		0.0020
Thallium	ND		0.0040
Vanadium	0.0084		0.0020
Zinc	ND	^	0.0070
Aluminum	ND		0.40
Magnesium	65		4.0
Potassium	ND		50
Sodium	ND		50
Calcium	ND		50

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **06SMMW**

Lab Sample ID: 580-19403-11 Date Sampled: 05/14/2010 1655
Client Matrix: Water Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)-Dissolved

Method:	6020	Analysis Batch: 580-64208		Instrument ID:	SEA044
Preparation:	3005A	Prep Batch: 580-64088		Lab File ID:	047SMPL
Dilution:	5.0			Initial Weight/Volume:	50 mL
Date Analyzed:	05/24/2010 1215			Final Weight/Volume:	50 mL
Date Prepared:	05/21/2010 1218				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	0.0052	^	0.0020
Antimony	ND	^	0.0020
Barium	0.014	^	0.0060
Beryllium	ND		0.0020
Cadmium	ND		0.0020
Chromium	ND	^	0.0020
Lead	ND		0.0020
Cobalt	ND	^	0.0020
Copper	ND	^	0.0050
Iron	ND		0.20
Manganese	0.010	^	0.0020
Nickel	0.0023	^	0.0020
Selenium	ND		0.0020
Silver	ND		0.0020
Thallium	ND		0.0040
Vanadium	0.012		0.0020
Zinc	0.0074	^	0.0070
Aluminum	ND		0.40
Magnesium	99		4.0
Potassium	ND		50
Sodium	64		50
Calcium	ND		50

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **07SMMW**

Lab Sample ID: 580-19403-12 Date Sampled: 05/14/2010 1420
Client Matrix: Water Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)-Dissolved

Method:	6020	Analysis Batch: 580-64208		Instrument ID:	SEA044
Preparation:	3005A	Prep Batch: 580-64088		Lab File ID:	048SMPL
Dilution:	5.0			Initial Weight/Volume:	50 mL
Date Analyzed:	05/24/2010 1221			Final Weight/Volume:	50 mL
Date Prepared:	05/21/2010 1218				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	0.0031	^	0.0020
Antimony	ND	^	0.0020
Barium	0.035	^	0.0060
Beryllium	ND		0.0020
Cadmium	ND		0.0020
Chromium	ND	^	0.0020
Lead	ND		0.0020
Cobalt	ND	^	0.0020
Copper	ND	^	0.0050
Iron	ND		0.20
Manganese	0.056	^	0.0020
Nickel	0.0094	^	0.0020
Selenium	ND		0.0020
Silver	ND		0.0020
Thallium	ND		0.0040
Vanadium	0.011		0.0020
Zinc	ND	^	0.0070
Aluminum	ND		0.40
Magnesium	90		4.0
Potassium	ND		50
Sodium	ND		50
Calcium	ND		50

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **09SMMW**

Lab Sample ID: 580-19403-13 Date Sampled: 05/14/2010 1330
Client Matrix: Water Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)-Dissolved

Method:	6020	Analysis Batch: 580-64208		Instrument ID:	SEA044
Preparation:	3005A	Prep Batch: 580-64088		Lab File ID:	049SMPL
Dilution:	5.0			Initial Weight/Volume:	50 mL
Date Analyzed:	05/24/2010 1227			Final Weight/Volume:	50 mL
Date Prepared:	05/21/2010 1218				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	ND	^	0.0020
Antimony	ND	^	0.0020
Barium	0.18	^	0.0060
Beryllium	ND		0.0020
Cadmium	ND		0.0020
Chromium	ND	^	0.0020
Lead	ND		0.0020
Cobalt	ND	^	0.0020
Copper	ND	^	0.0050
Iron	ND		0.20
Manganese	0.10	^	0.0020
Nickel	0.0094	^	0.0020
Selenium	ND		0.0020
Silver	ND		0.0020
Thallium	ND		0.0040
Vanadium	0.0097		0.0020
Zinc	ND	^	0.0070
Aluminum	ND		0.40
Magnesium	27		4.0
Potassium	ND		50
Sodium	ND		50
Calcium	ND		50

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **01HMMW**

Lab Sample ID: 580-19403-14 Date Sampled: 05/16/2010 0800
Client Matrix: Water Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)-Dissolved

Method:	6020	Analysis Batch: 580-64208		Instrument ID:	SEA044
Preparation:	3005A	Prep Batch: 580-64088		Lab File ID:	050SMPL
Dilution:	5.0			Initial Weight/Volume:	50 mL
Date Analyzed:	05/24/2010 1233			Final Weight/Volume:	50 mL
Date Prepared:	05/21/2010 1218				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	ND	^	0.0020
Antimony	ND	^	0.0020
Barium	0.038	^	0.0060
Beryllium	ND		0.0020
Cadmium	ND		0.0020
Chromium	0.0050	^	0.0020
Lead	ND		0.0020
Cobalt	ND	^	0.0020
Copper	ND	^	0.0050
Iron	ND		0.20
Manganese	ND	^	0.0020
Nickel	0.083	^	0.0020
Selenium	ND		0.0020
Silver	ND		0.0020
Thallium	ND		0.0040
Vanadium	0.0094		0.0020
Zinc	ND	^	0.0070
Aluminum	ND		0.40
Magnesium	51		4.0
Potassium	ND		50
Sodium	ND		50
Calcium	ND		50

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **03HMSW**

Lab Sample ID: 580-19403-15 Date Sampled: 05/16/2010 0830
Client Matrix: Water Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)-Dissolved

Method:	6020	Analysis Batch: 580-64208		Instrument ID:	SEA044
Preparation:	3005A	Prep Batch: 580-64088		Lab File ID:	051SMPL
Dilution:	5.0			Initial Weight/Volume:	50 mL
Date Analyzed:	05/24/2010 1239			Final Weight/Volume:	50 mL
Date Prepared:	05/21/2010 1218				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	ND	^	0.0020
Antimony	ND	^	0.0020
Barium	0.036	^	0.0060
Beryllium	ND		0.0020
Cadmium	ND		0.0020
Chromium	0.0081	^	0.0020
Lead	ND		0.0020
Cobalt	ND	^	0.0020
Copper	ND	^	0.0050
Iron	ND		0.20
Manganese	ND	^	0.0020
Nickel	0.11	^	0.0020
Selenium	ND		0.0020
Silver	ND		0.0020
Thallium	ND		0.0040
Vanadium	0.0093		0.0020
Zinc	ND	^	0.0070
Aluminum	ND		0.40
Magnesium	50		4.0
Potassium	ND		50
Sodium	ND		50
Calcium	ND		50

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **04HMMW**

Lab Sample ID: 580-19403-16 Date Sampled: 05/16/2010 1000
Client Matrix: Water Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)-Dissolved

Method:	6020	Analysis Batch: 580-64208		Instrument ID:	SEA044
Preparation:	3005A	Prep Batch: 580-64088		Lab File ID:	052SMP
Dilution:	5.0			Initial Weight/Volume:	50 mL
Date Analyzed:	05/24/2010 1245			Final Weight/Volume:	50 mL
Date Prepared:	05/21/2010 1218				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	0.0027	^	0.0020
Antimony	ND	^	0.0020
Barium	0.043	^	0.0060
Beryllium	ND		0.0020
Cadmium	ND		0.0020
Chromium	ND	^	0.0020
Lead	ND		0.0020
Cobalt	ND	^	0.0020
Copper	ND	^	0.0050
Iron	ND		0.20
Manganese	0.037	^	0.0020
Nickel	0.0040	^	0.0020
Selenium	ND		0.0020
Silver	ND		0.0020
Thallium	ND		0.0040
Vanadium	0.0095		0.0020
Zinc	ND	^	0.0070
Aluminum	ND		0.40
Magnesium	20		4.0
Potassium	ND		50
Sodium	ND		50
Calcium	55		50

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **06HMMW**

Lab Sample ID: 580-19403-17 Date Sampled: 05/16/2010 1200
Client Matrix: Water Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)-Dissolved

Method:	6020	Analysis Batch: 580-64208		Instrument ID:	SEA044
Preparation:	3005A	Prep Batch: 580-64088		Lab File ID:	053SMPL
Dilution:	5.0			Initial Weight/Volume:	50 mL
Date Analyzed:	05/24/2010 1251			Final Weight/Volume:	50 mL
Date Prepared:	05/21/2010 1218				

Analyte	Result (mg/L)	Qualifier	RL
Arsenic	ND	^	0.0020
Antimony	ND	^	0.0020
Barium	0.067	^	0.0060
Beryllium	ND		0.0020
Cadmium	ND		0.0020
Chromium	0.0051	^	0.0020
Lead	ND		0.0020
Cobalt	ND	^	0.0020
Copper	ND	^	0.0050
Iron	ND		0.20
Manganese	ND	^	0.0020
Nickel	0.0070	^	0.0020
Selenium	ND		0.0020
Silver	ND		0.0020
Thallium	ND		0.0040
Vanadium	0.0083		0.0020
Zinc	ND	^	0.0070
Aluminum	ND		0.40
Magnesium	29		4.0
Potassium	ND		50
Sodium	ND		50
Calcium	ND		50

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **18SMSS**

Lab Sample ID: 580-19403-18 Date Sampled: 05/10/2010 0915
Client Matrix: Solid % Moisture: 15.2 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64624		Lab File ID:	078SMPL
Dilution:	10			Initial Weight/Volume:	1.1039 g
Date Analyzed:	06/02/2010 2013			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		10	^	0.21
Antimony		0.48	^	0.21
Barium		250		0.21
Beryllium		0.60		0.21
Cadmium		ND		0.21
Chromium		100	^	0.21
Lead		24		0.21
Cobalt		26	^	0.21
Copper		48	^	0.21
Iron		40000		21
Manganese		670	^	0.53
Nickel		260	^	0.21
Selenium		ND		0.53
Silver		ND		0.21
Thallium		ND		0.43
Vanadium		44		0.21
Zinc		100	^	0.75
Aluminum		16000		32
Magnesium		11000		110
Potassium		1600		110
Sodium		ND		110
Calcium		2500		110

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64443		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64211		Lab File ID:	64211-HG.PRN
Dilution:	1000			Initial Weight/Volume:	0.8791 g
Date Analyzed:	05/26/2010 1406			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2010 1345				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		21		13

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **COMPHMRT**

Lab Sample ID: 580-19403-19 Date Sampled: 05/05/2010 0917
Client Matrix: Solid % Moisture: 21.9 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64624		Lab File ID:	079SMPL
Dilution:	10			Initial Weight/Volume:	1.1125 g
Date Analyzed:	06/02/2010 2020			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		4.2	^	0.23
Antimony		0.75	^	0.23
Barium		300		0.23
Beryllium		ND		0.23
Cadmium		ND		0.23
Chromium		530	^	0.23
Lead		49		0.23
Cobalt		84	^	0.23
Copper		26	^	0.23
Iron		71000		23
Manganese		500	^	0.58
Nickel		1200	^	0.23
Selenium		ND		0.58
Silver		ND		0.23
Thallium		ND		0.46
Vanadium		32		0.23
Zinc		55	^	0.81
Aluminum		6600		35
Magnesium		16000		120
Potassium		560		120
Sodium		ND		120
Calcium		1600		120

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64443		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64211		Lab File ID:	64211-HG.PRN
Dilution:	1000			Initial Weight/Volume:	0.5343 g
Date Analyzed:	05/26/2010 1411			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2010 1345				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		670		24

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **01HMRT**

Lab Sample ID: 580-19403-20 Date Sampled: 05/05/2010 0855
Client Matrix: Solid % Moisture: 25.1 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64624		Lab File ID:	083SMP
Dilution:	10			Initial Weight/Volume:	1.1017 g
Date Analyzed:	06/02/2010 2049			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		12	^	0.24
Antimony		1.5	^	0.24
Barium		170		0.24
Beryllium		ND		0.24
Cadmium		1.8		0.24
Chromium		160	^	0.24
Lead		33		0.24
Cobalt		25	^	0.24
Copper		29	^	0.24
Iron		91000		24
Manganese		800	^	0.61
Nickel		390	^	0.24
Selenium		ND		0.61
Silver		ND		0.24
Thallium		ND		0.49
Vanadium		29		0.24
Zinc		1000	^	0.85
Aluminum		5700		36
Magnesium		24000		120
Potassium		770		120
Sodium		ND		120
Calcium		18000		120

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64443		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64211		Lab File ID:	64211-HG.PRN
Dilution:	1000			Initial Weight/Volume:	0.6009 g
Date Analyzed:	05/26/2010 1415			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2010 1345				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		60		22

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **01HMBG**

Lab Sample ID: 580-19403-21 Date Sampled: 05/07/2010 0825
Client Matrix: Solid % Moisture: 19.3 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64624		Lab File ID:	084SMPL.D
Dilution:	10			Initial Weight/Volume:	1.0355 g
Date Analyzed:	06/02/2010 2056			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		1.7	^	0.24
Antimony		2.2	^	0.24
Barium		11		0.24
Beryllium		ND		0.24
Cadmium		ND		0.24
Chromium		590	^	0.24
Lead		11		0.24
Cobalt		7.8	^	0.24
Copper		17	^	0.24
Iron		53000		24
Manganese		85	^	0.60
Nickel		110	^	0.24
Selenium		ND		0.60
Silver		ND		0.24
Thallium		ND		0.48
Vanadium		26		0.24
Zinc		10	^	0.84
Aluminum		1200		36
Magnesium		210		120
Potassium		ND		120
Sodium		ND		120
Calcium		290		120

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **04SMSS**

Lab Sample ID: 580-19403-22 Date Sampled: 05/09/2010 0830
Client Matrix: Solid % Moisture: 12.4 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64624		Lab File ID:	085SMPL
Dilution:	10			Initial Weight/Volume:	1.0721 g
Date Analyzed:	06/02/2010 2103			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		8.4	^	0.21
Antimony		0.72	^	0.21
Barium		170		0.21
Beryllium		0.53		0.21
Cadmium		0.21		0.21
Chromium		250	^	0.21
Lead		24		0.21
Cobalt		67	^	0.21
Copper		49	^	0.21
Iron		56000		21
Manganese		940	^	0.53
Nickel		1200	^	0.21
Selenium		ND		0.53
Silver		ND		0.21
Thallium		ND		0.43
Vanadium		46		0.21
Zinc		110	^	0.75
Aluminum		9200		32
Magnesium		33000		110
Potassium		920		110
Sodium		ND		110
Calcium		2100		110

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64443		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64211		Lab File ID:	64211-HG.PRN
Dilution:	100			Initial Weight/Volume:	0.5719 g
Date Analyzed:	05/26/2010 1505			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2010 1345				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		21		2.0

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **05SMSS**

Lab Sample ID: 580-19403-23 Date Sampled: 05/09/2010 0840
Client Matrix: Solid % Moisture: 10.3 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64624		Lab File ID:	086SMPL
Dilution:	10			Initial Weight/Volume:	1.0136 g
Date Analyzed:	06/02/2010 2110			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		8.0	^	0.22
Antimony		0.34	^	0.22
Barium		230		0.22
Beryllium		0.47		0.22
Cadmium		ND		0.22
Chromium		270	^	0.22
Lead		12		0.22
Cobalt		58	^	0.22
Copper		37	^	0.22
Iron		47000		22
Manganese		840	^	0.55
Nickel		950	^	0.22
Selenium		ND		0.55
Silver		ND		0.22
Thallium		ND		0.44
Vanadium		43		0.22
Zinc		69	^	0.77
Aluminum		12000		33
Magnesium		57000		110
Potassium		720		110
Sodium		ND		110
Calcium		1300		110

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64443		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64211		Lab File ID:	64211-HG.PRN
Dilution:	1000			Initial Weight/Volume:	0.6308 g
Date Analyzed:	05/26/2010 1429			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2010 1345				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		42		18

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **06SMSS**

Lab Sample ID: 580-19403-24 Date Sampled: 05/09/2010 0846
Client Matrix: Solid % Moisture: 16.3 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64624		Lab File ID:	087SMPL
Dilution:	10			Initial Weight/Volume:	1.1777 g
Date Analyzed:	06/02/2010 2117			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		7.9	^	0.20
Antimony		0.46	^	0.20
Barium		310		0.20
Beryllium		0.58		0.20
Cadmium		ND		0.20
Chromium		330	^	0.20
Lead		24		0.20
Cobalt		69	^	0.20
Copper		51	^	0.20
Iron		57000		20
Manganese		1400	^	0.51
Nickel		1200	^	0.20
Selenium		ND		0.51
Silver		ND		0.20
Thallium		ND		0.41
Vanadium		55		0.20
Zinc		90	^	0.71
Aluminum		16000		30
Magnesium		39000		100
Potassium		910		100
Sodium		ND		100
Calcium		1900		100

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64443		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64211		Lab File ID:	64211-HG.PRN
Dilution:	1000			Initial Weight/Volume:	0.5106 g
Date Analyzed:	05/26/2010 1434			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2010 1345				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		130		23

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **07SMSS**

Lab Sample ID: 580-19403-25 Date Sampled: 05/09/2010 0910
Client Matrix: Solid % Moisture: 5.4 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64624		Lab File ID:	088SMPL
Dilution:	10			Initial Weight/Volume:	1.0387 g
Date Analyzed:	06/02/2010 2124			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		8.6	^	0.20
Antimony		1.2	^	0.20
Barium		130		0.20
Beryllium		0.56		0.20
Cadmium		ND		0.20
Chromium		250	^	0.20
Lead		25		0.20
Cobalt		97	^	0.20
Copper		38	^	0.20
Iron		69000		20
Manganese		1000	^	0.51
Nickel		1800	^	0.20
Selenium		ND		0.51
Silver		ND		0.20
Thallium		ND		0.41
Vanadium		41		0.20
Zinc		73	^	0.71
Aluminum		8100		31
Magnesium		40000		100
Potassium		820		100
Sodium		ND		100
Calcium		960		100

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64443		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64211		Lab File ID:	64211-HG.PRN
Dilution:	1000			Initial Weight/Volume:	0.5630 g
Date Analyzed:	05/26/2010 1438			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2010 1345				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		24		19

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **08SMSS**

Lab Sample ID: 580-19403-26 Date Sampled: 05/09/2010 0925
Client Matrix: Solid % Moisture: 11.4 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64624		Lab File ID:	089SMPL
Dilution:	10			Initial Weight/Volume:	1.1105 g
Date Analyzed:	06/02/2010 2131			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1349				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		7.2	^	0.20
Antimony		0.43	^	0.20
Barium		210		0.20
Beryllium		0.43		0.20
Cadmium		ND		0.20
Chromium		180	^	0.20
Lead		26		0.20
Cobalt		53	^	0.20
Copper		33	^	0.20
Iron		45000		20
Manganese		720	^	0.51
Nickel		850	^	0.20
Selenium		ND		0.51
Silver		ND		0.20
Thallium		ND		0.41
Vanadium		40		0.20
Zinc		72	^	0.71
Aluminum		12000		30
Magnesium		42000		100
Potassium		1000		100
Sodium		ND		100
Calcium		1700		100

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64443		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64211		Lab File ID:	64211-HG.PRN
Dilution:	1000			Initial Weight/Volume:	0.6561 g
Date Analyzed:	05/26/2010 1442			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2010 1345				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		28		17

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Client Sample ID: **09SMSS**

Lab Sample ID: 580-19403-27 Date Sampled: 05/09/2010 0935
Client Matrix: Solid % Moisture: 8.9 Date Received: 05/18/2010 0950

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 580-64859		Instrument ID:	SEA044
Preparation:	3050B	Prep Batch: 580-64624		Lab File ID:	090SMPL
Dilution:	10			Initial Weight/Volume:	1.0684 g
Date Analyzed:	06/02/2010 2138			Final Weight/Volume:	50 mL
Date Prepared:	05/28/2010 1434				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Arsenic		7.2	^	0.21
Antimony		0.42	^	0.21
Barium		250		0.21
Beryllium		0.43		0.21
Cadmium		0.31		0.21
Chromium		310	^	0.21
Lead		40		0.21
Cobalt		56	^	0.21
Copper		37	^	0.21
Iron		46000		21
Manganese		870	^	0.51
Nickel		930	^	0.21
Selenium		ND		0.51
Silver		ND		0.21
Thallium		ND		0.41
Vanadium		54		0.21
Zinc		68	^	0.72
Aluminum		14000		31
Magnesium		37000		100
Potassium		750		100
Sodium		ND		100
Calcium		2400		100

7471A Mercury (CVAA)

Method:	7471A	Analysis Batch: 580-64443		Instrument ID:	SEA029
Preparation:	7471A	Prep Batch: 580-64211		Lab File ID:	64211-HG.PRN
Dilution:	1000			Initial Weight/Volume:	0.5170 g
Date Analyzed:	05/26/2010 1447			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2010 1345				

Analyte	DryWt Corrected: Y	Result (mg/Kg)	Qualifier	RL
Mercury		180		21

General Chemistry

Client Sample ID: **01HMSD**

Lab Sample ID: 580-19403-5 Date Sampled: 05/04/2010 1300
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	43		%	0.10	1.0	Moisture
Analysis Batch: 580-64333	Date Analyzed: 05/25/2010 1422					DryWt Corrected: N
Percent Moisture	57		%	0.10	1.0	Moisture
Analysis Batch: 580-64333	Date Analyzed: 05/25/2010 1422					DryWt Corrected: N

General Chemistry

Client Sample ID: **02HMSD**

Lab Sample ID: 580-19403-6 Date Sampled: 05/04/2010 1545
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	89		%	0.10	1.0	Moisture
Analysis Batch: 580-64333	Date Analyzed: 05/25/2010 1422					DryWt Corrected: N
Percent Moisture	11		%	0.10	1.0	Moisture
Analysis Batch: 580-64333	Date Analyzed: 05/25/2010 1422					DryWt Corrected: N

General Chemistry

Client Sample ID: **03HMSD**

Lab Sample ID: 580-19403-7 Date Sampled: 05/07/2010 1339
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	79		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N
Percent Moisture	21		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N

General Chemistry

Client Sample ID: **03CSBG**

Lab Sample ID: 580-19403-8 Date Sampled: 05/16/2010 1510
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	97		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N
Percent Moisture	3.0		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N

General Chemistry

Client Sample ID: **18SMSS**

Lab Sample ID: 580-19403-18 Date Sampled: 05/10/2010 0915

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	85		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N
Percent Moisture	15		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N

General Chemistry

Client Sample ID: **COMPHMRT**

Lab Sample ID: 580-19403-19 Date Sampled: 05/05/2010 0917

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	78		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N
Percent Moisture	22		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N

General Chemistry

Client Sample ID: **01HMRT**

Lab Sample ID: 580-19403-20 Date Sampled: 05/05/2010 0855
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	75		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N
Percent Moisture	25		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N

General Chemistry

Client Sample ID: **01HMBG**

Lab Sample ID: 580-19403-21 Date Sampled: 05/07/2010 0825
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	81		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N
Percent Moisture	19		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N

General Chemistry

Client Sample ID: **04SMSS**

Lab Sample ID: 580-19403-22 Date Sampled: 05/09/2010 0830
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	88		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N
Percent Moisture	12		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N

General Chemistry

Client Sample ID: **05SMSS**

Lab Sample ID: 580-19403-23 Date Sampled: 05/09/2010 0840
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	90		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N
Percent Moisture	10		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N

General Chemistry

Client Sample ID: **06SMSS**

Lab Sample ID: 580-19403-24 Date Sampled: 05/09/2010 0846

Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	84		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N
Percent Moisture	16		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N

General Chemistry

Client Sample ID: **07SMSS**

Lab Sample ID: 580-19403-25 Date Sampled: 05/09/2010 0910
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	95		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N
Percent Moisture	5.4		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N

General Chemistry

Client Sample ID: **08SMSS**

Lab Sample ID: 580-19403-26 Date Sampled: 05/09/2010 0925
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	89		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N
Percent Moisture	11		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N

General Chemistry

Client Sample ID: **09SMSS**

Lab Sample ID: 580-19403-27 Date Sampled: 05/09/2010 0935
Client Matrix: Solid Date Received: 05/18/2010 0950

Analyte	Result	Qual	Units	RL	Dil	Method
Percent Solids	91		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N
Percent Moisture	8.9		%	0.10	1.0	Moisture
Analysis Batch: 580-64098	Date Analyzed: 05/21/2010 1259					DryWt Corrected: N

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

Method Blank - Batch: 580-64088

Method: 6020
Preparation: 3005A
Dissolved

Lab Sample ID: MB 580-63971/1-B
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 05/24/2010 1012
Date Prepared: 05/21/2010 1218

Analysis Batch: 580-64208
Prep Batch: 580-64088
Units: mg/L

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

Analyte	Result	Qual	RL
Arsenic	ND	^	0.0020
Antimony	ND	^	0.0020
Barium	ND	^	0.0060
Beryllium	ND		0.0020
Cadmium	ND		0.0020
Chromium	ND	^	0.0020
Lead	ND		0.0020
Cobalt	ND	^	0.0020
Copper	ND	^	0.0050
Iron	ND		0.20
Manganese	ND	^	0.0020
Nickel	ND	^	0.0020
Selenium	ND		0.0020
Silver	ND		0.0020
Thallium	ND		0.0040
Vanadium	ND		0.0020
Zinc	ND	^	0.0070
Aluminum	ND		0.40
Magnesium	ND		4.0
Potassium	ND		50
Sodium	ND		50
Calcium	ND		50

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

Method Blank - Batch: 580-64088

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 580-64088/19-A	Analysis Batch:	580-64208	Instrument ID:	SEA044
Client Matrix:	Water	Prep Batch:	580-64088	Lab File ID:	028SMPL.D
Dilution:	5.0	Units:	mg/L	Initial Weight/Volume:	50 mL
Date Analyzed:	05/24/2010 1018			Final Weight/Volume:	50 mL
Date Prepared:	05/21/2010 1218				

Analyte	Result	Qual	RL
Arsenic	ND	^	0.0020
Antimony	ND	^	0.0020
Barium	ND	^	0.0060
Beryllium	ND		0.0020
Cadmium	ND		0.0020
Chromium	ND	^	0.0020
Lead	ND		0.0020
Cobalt	ND	^	0.0020
Copper	ND	^	0.0050
Iron	ND		0.20
Manganese	ND	^	0.0020
Nickel	ND	^	0.0020
Selenium	ND		0.0020
Silver	ND		0.0020
Thallium	ND		0.0040
Vanadium	ND		0.0020
Zinc	ND	^	0.0070
Aluminum	ND		0.40
Magnesium	ND		4.0
Potassium	ND		50
Sodium	ND		50
Calcium	ND		50

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

LCS-Standard Reference Material - Batch:

Method: 6020
Preparation: 3005A
Total Recoverable

Lab Sample ID: LCSSRM 580-64088/22-A
Client Matrix: Water
Dilution: 50
Date Analyzed: 05/24/2010 1037
Date Prepared: 05/21/2010 1218

Analysis Batch: 580-64208
Prep Batch: 580-64088
Units: mg/L

Instrument ID: SEA044
Lab File ID: 031SMPL.D
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	4.00	3.78	94	80 - 120	^
Antimony	3.00	2.96	99	80 - 120	^
Barium	4.00	4.10	103	80 - 120	^
Beryllium	0.100	0.0993	99	80 - 120	
Cadmium	0.100	0.0968	97	80 - 120	
Chromium	0.400	0.375	94	80 - 120	^
Lead	1.00	1.01	101	80 - 120	
Cobalt	1.00	0.966	97	80 - 120	^
Copper	0.500	0.484	97	80 - 120	^
Iron	22.0	22.1	100	80 - 120	
Manganese	1.00	0.964	96	80 - 120	^
Nickel	1.00	0.936	94	80 - 120	^
Selenium	4.00	3.96	99	80 - 120	
Silver	0.600	0.618	103	80 - 120	
Thallium	4.00	3.90	97	80 - 120	
Vanadium	1.00	0.939	94	80 - 120	
Zinc	1.00	0.970	97	80 - 120	^
Aluminum	4.00	ND	94	80 - 120	
Magnesium	20.0	ND	99	80 - 120	

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64088

Method: 6020
Preparation: 3005A
Total Recoverable

LCS Lab Sample ID:	LCS 580-64088/20-A	Analysis Batch:	580-64208	Instrument ID:	SEA044
Client Matrix:	Water	Prep Batch:	580-64088	Lab File ID:	029SMPL.D
Dilution:	50	Units:	mg/L	Initial Weight/Volume:	50 mL
Date Analyzed:	05/24/2010 1025			Final Weight/Volume:	50 mL
Date Prepared:	05/21/2010 1218				

LCSD Lab Sample ID:	LCSD 580-64088/21-A	Analysis Batch:	580-64208	Instrument ID:	SEA044
Client Matrix:	Water	Prep Batch:	580-64088	Lab File ID:	030SMPL.D
Dilution:	50	Units:	mg/L	Initial Weight/Volume:	50 mL
Date Analyzed:	05/24/2010 1031			Final Weight/Volume:	50 mL
Date Prepared:	05/21/2010 1218				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	94	95	80 - 120	1	20	^	^
Antimony	99	98	80 - 120	1	20	^	^
Barium	102	104	80 - 120	1	20	^	^
Beryllium	101	100	80 - 120	1	20		
Cadmium	104	104	80 - 120	0	20		
Chromium	92	95	80 - 120	4	20	^	^
Lead	101	100	80 - 120	1	20		
Cobalt	95	95	80 - 120	0	20	^	^
Copper	96	97	80 - 120	1	20	^	^
Iron	102	101	80 - 120	1	20		
Manganese	95	96	80 - 120	2	20	^	^
Nickel	93	94	80 - 120	1	20	^	^
Selenium	98	98	80 - 120	0	20		
Silver	102	102	80 - 120	0	20		
Thallium	97	98	80 - 120	1	20		
Vanadium	94	94	80 - 120	1	20		
Zinc	93	95	80 - 120	3	20	^	^
Aluminum	93	94	80 - 120	1	20		
Magnesium	97	99	80 - 120	2	20		

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64088

Method: 6020
Preparation: 3005A
Total Recoverable

LCS Lab Sample ID: LCS 580-64088/20-A
Units: mg/L
Client Matrix: Water
Dilution: 50
Date Analyzed: 05/24/2010 1025
Date Prepared: 05/21/2010 1218

LCSD Lab Sample ID: LCSD 580-64088/21-A
Client Matrix: Water
Dilution: 50
Date Analyzed: 05/24/2010 1031
Date Prepared: 05/21/2010 1218

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Arsenic	4.00	4.00	3.74	^	3.78	^
Antimony	3.00	3.00	2.97	^	2.95	^
Barium	4.00	4.00	4.08	^	4.14	^
Beryllium	0.100	0.100	0.101		0.100	
Cadmium	0.100	0.100	0.104		0.104	
Chromium	0.400	0.400	0.366	^	0.381	^
Lead	1.00	1.00	1.01		0.999	
Cobalt	1.00	1.00	0.950	^	0.951	^
Copper	0.500	0.500	0.482	^	0.486	^
Iron	22.0	22.0	22.5		22.3	
Manganese	1.00	1.00	0.947	^	0.963	^
Nickel	1.00	1.00	0.932	^	0.940	^
Selenium	4.00	4.00	3.92		3.93	
Silver	0.600	0.600	0.612		0.614	
Thallium	4.00	4.00	3.89		3.92	
Vanadium	1.00	1.00	0.936		0.944	
Zinc	1.00	1.00	0.926	^	0.954	^
Aluminum	4.00	4.00	ND		ND	
Magnesium	20.0	20.0	ND		ND	

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 580-64088

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	580-19403-1	Analysis Batch:	580-64208	Instrument ID:	SEA044
Client Matrix:	Water	Prep Batch:	580-64088	Lab File ID:	037SMPL.D
Dilution:	50			Initial Weight/Volume:	50 mL
Date Analyzed:	05/24/2010 1113			Final Weight/Volume:	50 mL
Date Prepared:	05/21/2010 1218				

MSD Lab Sample ID:	580-19403-1	Analysis Batch:	580-64208	Instrument ID:	SEA044
Client Matrix:	Water	Prep Batch:	580-64088	Lab File ID:	038SMPL.D
Dilution:	50			Initial Weight/Volume:	50 mL
Date Analyzed:	05/24/2010 1120			Final Weight/Volume:	50 mL
Date Prepared:	05/21/2010 1218				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Arsenic	90	91	75 - 125	1	20	^	^
Antimony	97	96	75 - 125	0	20	^	^
Barium	101	99	75 - 125	2	20	^	^
Beryllium	97	97	75 - 125	0	20		
Cadmium	102	104	75 - 125	2	20		
Chromium	95	96	75 - 125	1	20	^	^
Lead	102	100	75 - 125	1	20		
Cobalt	97	98	75 - 125	1	20	^	^
Copper	97	96	75 - 125	1	20	^	^
Iron	102	102	75 - 125	1	20		
Manganese	99	99	75 - 125	0	20	^	^
Nickel	96	96	75 - 125	1	20	^	^
Selenium	96	96	75 - 125	0	20		
Silver	102	102	75 - 125	1	20		
Thallium	100	99	75 - 125	1	20		
Vanadium	95	94	75 - 125	1	20		
Zinc	97	98	75 - 125	1	20	^	^
Aluminum	100	111	75 - 125	10	20		
Magnesium	92	89	75 - 125	1	20		

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 580-64088

Method: 6020
Preparation: 3005A
Dissolved

MS Lab Sample ID:	580-19403-1	Units: mg/L	MSD Lab Sample ID:	580-19403-1
Client Matrix:	Water		Client Matrix:	Water
Dilution:	50		Dilution:	50
Date Analyzed:	05/24/2010 1113		Date Analyzed:	05/24/2010 1120
Date Prepared:	05/21/2010 1218		Date Prepared:	05/21/2010 1218

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual		MSD Result/Qual	
Arsenic	ND	4.00	4.00	3.62	^	3.65	^
Antimony	ND	3.00	3.00	2.90	^	2.89	^
Barium	ND	4.00	4.00	4.04	^	3.96	^
Beryllium	ND	0.100	0.100	0.0972		0.0969	
Cadmium	ND	0.100	0.100	0.102		0.104	
Chromium	0.014	0.400	0.400	0.393	^	0.399	^
Lead	ND	1.00	1.00	1.02		1.00	
Cobalt	ND	1.00	1.00	0.968	^	0.980	^
Copper	ND	0.500	0.500	0.485	^	0.482	^
Iron	ND	22.0	22.0	22.4		22.6	
Manganese	0.0022	1.00	1.00	0.989	^	0.992	^
Nickel	0.0034	1.00	1.00	0.962	^	0.968	^
Selenium	ND	4.00	4.00	3.83		3.83	
Silver	ND	0.600	0.600	0.610		0.614	
Thallium	ND	4.00	4.00	4.00		3.96	
Vanadium	0.0051	1.00	1.00	0.956		0.949	
Zinc	ND	1.00	1.00	0.970	^	0.979	^
Aluminum	ND	4.00	4.00	4.06		4.48	
Magnesium	52	20.0	20.0	70.6		70.0	

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

Duplicate - Batch: 580-64088

Method: 6020
Preparation: 3005A
Dissolved

Lab Sample ID: 580-19403-1
Client Matrix: Water
Dilution: 5.0
Date Analyzed: 05/24/2010 1107
Date Prepared: 05/21/2010 1218

Analysis Batch: 580-64208
Prep Batch: 580-64088
Units: mg/L

Instrument ID: SEA044
Lab File ID: 036SMPL.D
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Arsenic	ND	ND	30	20	^
Antimony	ND	ND	NC	20	^
Barium	ND	ND	8	20	^
Beryllium	ND	ND	NC	20	
Cadmium	ND	ND	NC	20	
Chromium	0.014	0.0141	2	20	^
Lead	ND	ND	8	20	
Cobalt	ND	ND	3	20	^
Copper	ND	ND	7	20	^
Iron	ND	ND	0	20	
Manganese	0.0022	0.00222	1	20	^
Nickel	0.0034	0.00397	17	20	^
Selenium	ND	ND	NC	20	
Silver	ND	ND	NC	20	
Thallium	ND	ND	36	20	
Vanadium	0.0051	0.00652	25	20	
Zinc	ND	ND	NC	20	^
Aluminum	ND	ND	50	20	
Magnesium	52	52.7	1	20	
Potassium	ND	ND	NC	20	
Sodium	ND	ND	NC	20	
Calcium	ND	ND	NC	20	

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

Method Blank - Batch: 580-64624

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 580-64624/21-A
Client Matrix: Solid
Dilution: 10
Date Analyzed: 06/02/2010 1757
Date Prepared: 05/28/2010 1349

Analysis Batch: 580-64859
Prep Batch: 580-64624
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 059SMPL.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
Beryllium	ND		0.20
Cadmium	ND		0.20
Chromium	ND	^	0.20
Lead	ND		0.20
Cobalt	ND	^	0.20
Copper	ND	^	0.20
Iron	ND		20
Manganese	ND	^	0.50
Nickel	ND	^	0.20
Selenium	ND		0.50
Silver	ND		0.20
Thallium	ND		0.40
Vanadium	ND		0.20
Zinc	ND	^	0.70
Aluminum	ND		30
Magnesium	ND		100
Potassium	ND		100
Sodium	ND		100
Calcium	ND		100

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

LCS-Standard Reference Material - Batch:

Method: 6020
Preparation: 3050B

Lab Sample ID: LCSSRM 580-64624/24-A
Client Matrix: Solid
Dilution: 20
Date Analyzed: 06/02/2010 1902
Date Prepared: 05/28/2010 1349

Analysis Batch: 580-64859
Prep Batch: 580-64624
Units: mg/Kg

Instrument ID: SEA044
Lab File ID: 068SMPL
Initial Weight/Volume: 0.5171 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	225	264	117	71.1 - 128.9	^
Antimony	126	165	131	21.0 - 251.6	^
Barium	565	649	115	74.7 - 125.5	
Beryllium	162	188	116	75.3 - 124.7	
Cadmium	69.1	79.3	115	73.2 - 126.8	
Chromium	124	146	118	69.9 - 129.8	^
Lead	223	252	113	75.3 - 125.1	
Cobalt	115	142	124	74.5 - 126.1	^
Copper	66.7	81.1	122	73.2 - 126.8	^
Iron	17600	20900	119	41.6 - 159.1	
Manganese	368	422	115	75.8 - 124.5	^
Nickel	172	211	122	73.8 - 126.7	^
Selenium	147	172	117	67.1 - 132.7	
Silver	35.2	41.7	118	65.6 - 134.4	
Thallium	173	203	117	68.8 - 131.2	
Vanadium	93.9	113	120	64.5 - 135.3	
Zinc	349	421	121	72.2 - 127.8	^
Aluminum	10600	11400	108	46.0 - 153.8	
Magnesium	4260	4780	112	70.0 - 130.0	

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64624

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64624/22-A	Analysis Batch: 580-64859	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64624	Lab File ID: 066SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	06/02/2010 1847		Final Weight/Volume: 50 mL
Date Prepared:	05/28/2010 1349		

LCSD Lab Sample ID:	LCSD 580-64624/23-A	Analysis Batch: 580-64859	Instrument ID: SEA044
Client Matrix:	Solid	Prep Batch: 580-64624	Lab File ID: 067SMPL.D
Dilution:	50	Units: mg/Kg	Initial Weight/Volume: 1.0 g
Date Analyzed:	06/02/2010 1854		Final Weight/Volume: 50 mL
Date Prepared:	05/28/2010 1349		

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Arsenic	98	98	80 - 120	0	35	^	^
Antimony	95	94	80 - 120	2	35	^	^
Barium	99	96	80 - 120	2	35		
Beryllium	98	98	80 - 120	0	35		
Cadmium	96	94	80 - 120	3	35		
Chromium	102	101	80 - 120	1	35	^	^
Lead	99	99	80 - 120	0	35		
Cobalt	104	103	80 - 120	1	35	^	^
Copper	107	108	80 - 120	0	35	^	^
Iron	104	101	80 - 120	2	35		
Manganese	100	100	80 - 120	0	35	^	^
Nickel	106	104	80 - 120	2	35	^	^
Selenium	99	98	80 - 120	1	35		
Silver	101	98	80 - 120	2	35		
Thallium	96	96	80 - 120	1	35		
Vanadium	98	99	80 - 120	2	35		
Zinc	104	103	80 - 120	1	35	^	^
Aluminum	93	94	80 - 120	1	35		
Magnesium	104	100	80 - 120	4	35		

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64624

Method: 6020
Preparation: 3050B

LCS Lab Sample ID:	LCS 580-64624/22-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 580-64624/23-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	50			Dilution:	50
Date Analyzed:	06/02/2010 1847			Date Analyzed:	06/02/2010 1854
Date Prepared:	05/28/2010 1349			Date Prepared:	05/28/2010 1349

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Arsenic	200	200	197	^	197	^
Antimony	150	150	143	^	140	^
Barium	200	200	197		192	
Beryllium	5.00	5.00	4.88		4.90	
Cadmium	5.00	5.00	4.82		4.69	
Chromium	20.0	20.0	20.3	^	20.2	^
Lead	50.0	50.0	49.6		49.4	
Cobalt	50.0	50.0	52.0	^	51.7	^
Copper	25.0	25.0	26.9	^	26.9	^
Iron	1100	1100	1140		1110	
Manganese	50.0	50.0	50.2	^	50.2	^
Nickel	50.0	50.0	52.8	^	52.0	^
Selenium	200	200	198		196	
Silver	30.0	30.0	30.2		29.5	
Thallium	200	200	192		193	
Vanadium	50.0	50.0	48.8		49.6	
Zinc	50.0	50.0	52.2	^	51.6	^
Aluminum	200	200	186		189	
Magnesium	1000	1000	1040		1000	

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

Method Blank - Batch: 580-64211

Method: 7471A
Preparation: 7471A

Lab Sample ID:	MB 580-64211/23-A	Analysis Batch:	580-64443	Instrument ID:	SEA029
Client Matrix:	Solid	Prep Batch:	580-64211	Lab File ID:	64211-HG.PRN
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	0.5 g
Date Analyzed:	05/26/2010 1237			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2010 1345				

Analyte	Result	Qual	RL
Mercury	ND		0.020

LCS-Standard Reference Material - Batch:

Method: 7471A
Preparation: 7471A

Lab Sample ID:	LCSSRM 580-64211/26-A	Analysis Batch:	580-64443	Instrument ID:	SEA029
Client Matrix:	Solid	Prep Batch:	580-64211	Lab File ID:	64211-HG.PRN
Dilution:	2.0	Units:	mg/Kg	Initial Weight/Volume:	0.0972 g
Date Analyzed:	05/26/2010 1250			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2010 1345				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.15	5.41	105	80 - 120	

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 580-64211

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID:	LCS 580-64211/24-A	Analysis Batch:	580-64443	Instrument ID:	SEA029
Client Matrix:	Solid	Prep Batch:	580-64211	Lab File ID:	64211-HG.PRN
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	0.5 g
Date Analyzed:	05/26/2010 1241			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2010 1345				

LCSD Lab Sample ID:	LCSD 580-64211/25-A	Analysis Batch:	580-64443	Instrument ID:	SEA029
Client Matrix:	Solid	Prep Batch:	580-64211	Lab File ID:	64211-HG.PRN
Dilution:	1.0	Units:	mg/Kg	Initial Weight/Volume:	0.5 g
Date Analyzed:	05/26/2010 1246			Final Weight/Volume:	50 mL
Date Prepared:	05/24/2010 1345				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Mercury	108	107	75 - 125	1	25		

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 580-64211

Method: 7471A
Preparation: 7471A

LCS Lab Sample ID:	LCS 580-64211/24-A	Units:	mg/Kg	LCSD Lab Sample ID:	LCSD 580-64211/25-A
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	05/26/2010 1241			Date Analyzed:	05/26/2010 1246
Date Prepared:	05/24/2010 1345			Date Prepared:	05/24/2010 1345

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Mercury	0.200	0.200	0.216	0.214

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

Duplicate - Batch: 580-64098

Method: Moisture
Preparation: N/A

Lab Sample ID: 580-19403-27
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/21/2010 1259
Date Prepared: N/A

Analysis Batch: 580-64098
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	91	92	1	20	
Percent Moisture	8.9	7.8	13	20	

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

Duplicate - Batch: 580-64333

Method: Moisture
Preparation: N/A

Lab Sample ID: 580-19403-5
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 05/25/2010 1422
Date Prepared: N/A

Analysis Batch: 580-64333
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	43	44	3	20	
Percent Moisture	57	56	2	20	

DATA REPORTING QUALIFIERS

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

Lab Section	Qualifier	Description
Metals		
	^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC exceeds the control limits.

Client: Ecology and Environment, Inc. Job Number: 580-19403-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 580-64088					
LCS 580-64088/20-A	Lab Control Sample	R	Water	3005A	
LCSD 580-64088/21-A	Lab Control Sample Duplicate	R	Water	3005A	
LCSSRM 580-64088/22-A	LCS-Standard Reference Material	R	Water	3005A	
MB 580-63971/1-B	Method Blank	D	Water	3005A	
MB 580-64088/19-A	Method Blank	R	Water	3005A	
580-19403-1	09HMMW	D	Water	3005A	
580-19403-1DU	Duplicate	D	Water	3005A	
580-19403-1MS	Matrix Spike	D	Water	3005A	
580-19403-1MSD	Matrix Spike Duplicate	D	Water	3005A	
580-19403-2	01CMMW	D	Water	3005A	
580-19403-3	03CMMW	D	Water	3005A	
580-19403-4	07CMMW	D	Water	3005A	
580-19403-9	01SMMW	D	Water	3005A	
580-19403-10	04SMMW	D	Water	3005A	
580-19403-11	06SMMW	D	Water	3005A	
580-19403-12	07SMMW	D	Water	3005A	
580-19403-13	09SMMW	D	Water	3005A	
580-19403-14	01HMMW	D	Water	3005A	
580-19403-15	03HMSW	D	Water	3005A	
580-19403-16	04HMMW	D	Water	3005A	
580-19403-17	06HMMW	D	Water	3005A	
Analysis Batch:580-64208					
LCS 580-64088/20-A	Lab Control Sample	R	Water	6020	580-64088
LCSD 580-64088/21-A	Lab Control Sample Duplicate	R	Water	6020	580-64088
LCSSRM 580-64088/22-A	LCS-Standard Reference Material	R	Water	6020	580-64088
MB 580-63971/1-B	Method Blank	D	Water	6020	580-64088
MB 580-64088/19-A	Method Blank	R	Water	6020	580-64088
580-19403-1	09HMMW	D	Water	6020	580-64088
580-19403-1DU	Duplicate	D	Water	6020	580-64088
580-19403-1MS	Matrix Spike	D	Water	6020	580-64088
580-19403-1MSD	Matrix Spike Duplicate	D	Water	6020	580-64088
580-19403-2	01CMMW	D	Water	6020	580-64088
580-19403-3	03CMMW	D	Water	6020	580-64088
580-19403-4	07CMMW	D	Water	6020	580-64088
580-19403-9	01SMMW	D	Water	6020	580-64088
580-19403-10	04SMMW	D	Water	6020	580-64088
580-19403-11	06SMMW	D	Water	6020	580-64088
580-19403-12	07SMMW	D	Water	6020	580-64088
580-19403-13	09SMMW	D	Water	6020	580-64088
580-19403-14	01HMMW	D	Water	6020	580-64088
580-19403-15	03HMSW	D	Water	6020	580-64088
580-19403-16	04HMMW	D	Water	6020	580-64088
580-19403-17	06HMMW	D	Water	6020	580-64088

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 580-64211					
LCS 580-64211/24-A	Lab Control Sample	T	Solid	7471A	
LCSD 580-64211/25-A	Lab Control Sample Duplicate	T	Solid	7471A	
LCSSRM 580-64211/26-A	LCS-Standard Reference Material	T	Solid	7471A	
MB 580-64211/23-A	Method Blank	T	Solid	7471A	
580-19403-18	18SMSS	T	Solid	7471A	
580-19403-19	COMPHMRT	T	Solid	7471A	
580-19403-20	01HMRT	T	Solid	7471A	
580-19403-22	04SMSS	T	Solid	7471A	
580-19403-23	05SMSS	T	Solid	7471A	
580-19403-24	06SMSS	T	Solid	7471A	
580-19403-25	07SMSS	T	Solid	7471A	
580-19403-26	08SMSS	T	Solid	7471A	
580-19403-27	09SMSS	T	Solid	7471A	
Analysis Batch:580-64443					
LCS 580-64211/24-A	Lab Control Sample	T	Solid	7471A	580-64211
LCSD 580-64211/25-A	Lab Control Sample Duplicate	T	Solid	7471A	580-64211
LCSSRM 580-64211/26-A	LCS-Standard Reference Material	T	Solid	7471A	580-64211
MB 580-64211/23-A	Method Blank	T	Solid	7471A	580-64211
580-19403-18	18SMSS	T	Solid	7471A	580-64211
580-19403-19	COMPHMRT	T	Solid	7471A	580-64211
580-19403-20	01HMRT	T	Solid	7471A	580-64211
580-19403-22	04SMSS	T	Solid	7471A	580-64211
580-19403-23	05SMSS	T	Solid	7471A	580-64211
580-19403-24	06SMSS	T	Solid	7471A	580-64211
580-19403-25	07SMSS	T	Solid	7471A	580-64211
580-19403-26	08SMSS	T	Solid	7471A	580-64211
580-19403-27	09SMSS	T	Solid	7471A	580-64211

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 580-64624					
LCS 580-64624/22-A	Lab Control Sample	T	Solid	3050B	
LCSD 580-64624/23-A	Lab Control Sample Duplicate	T	Solid	3050B	
LCSSRM 580-64624/24-A	LCS-Standard Reference Material	T	Solid	3050B	
MB 580-64624/21-A	Method Blank	T	Solid	3050B	
580-19403-5	01HMSD	T	Solid	3050B	
580-19403-6	02HMSD	T	Solid	3050B	
580-19403-7	03HMSD	T	Solid	3050B	
580-19403-8	03CSBG	T	Solid	3050B	
580-19403-18	18SMSS	T	Solid	3050B	
580-19403-19	COMPHMRT	T	Solid	3050B	
580-19403-20	01HMRT	T	Solid	3050B	
580-19403-21	01HMBG	T	Solid	3050B	
580-19403-22	04SMSS	T	Solid	3050B	
580-19403-23	05SMSS	T	Solid	3050B	
580-19403-24	06SMSS	T	Solid	3050B	
580-19403-25	07SMSS	T	Solid	3050B	
580-19403-26	08SMSS	T	Solid	3050B	
580-19403-27	09SMSS	T	Solid	3050B	
Analysis Batch:580-64859					
LCS 580-64624/22-A	Lab Control Sample	T	Solid	6020	580-64624
LCSD 580-64624/23-A	Lab Control Sample Duplicate	T	Solid	6020	580-64624
LCSSRM 580-64624/24-A	LCS-Standard Reference Material	T	Solid	6020	580-64624
MB 580-64624/21-A	Method Blank	T	Solid	6020	580-64624
580-19403-5	01HMSD	T	Solid	6020	580-64624
580-19403-6	02HMSD	T	Solid	6020	580-64624
580-19403-7	03HMSD	T	Solid	6020	580-64624
580-19403-8	03CSBG	T	Solid	6020	580-64624
580-19403-18	18SMSS	T	Solid	6020	580-64624
580-19403-19	COMPHMRT	T	Solid	6020	580-64624
580-19403-20	01HMRT	T	Solid	6020	580-64624
580-19403-21	01HMBG	T	Solid	6020	580-64624
580-19403-22	04SMSS	T	Solid	6020	580-64624
580-19403-23	05SMSS	T	Solid	6020	580-64624
580-19403-24	06SMSS	T	Solid	6020	580-64624
580-19403-25	07SMSS	T	Solid	6020	580-64624
580-19403-26	08SMSS	T	Solid	6020	580-64624
580-19403-27	09SMSS	T	Solid	6020	580-64624

Report Basis

D = Dissolved

R = Total Recoverable

T = Total

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:580-64098					
580-19403-7	03HMSD	T	Solid	Moisture	
580-19403-8	03CSBG	T	Solid	Moisture	
580-19403-18	18SMSS	T	Solid	Moisture	
580-19403-19	COMPHMRT	T	Solid	Moisture	
580-19403-20	01HMRT	T	Solid	Moisture	
580-19403-21	01HMBG	T	Solid	Moisture	
580-19403-22	04SMSS	T	Solid	Moisture	
580-19403-23	05SMSS	T	Solid	Moisture	
580-19403-24	06SMSS	T	Solid	Moisture	
580-19403-25	07SMSS	T	Solid	Moisture	
580-19403-26	08SMSS	T	Solid	Moisture	
580-19403-27	09SMSS	T	Solid	Moisture	
580-19403-27DU	Duplicate	T	Solid	Moisture	
Analysis Batch:580-64333					
580-19403-5	01HMSD	T	Solid	Moisture	
580-19403-5DU	Duplicate	T	Solid	Moisture	
580-19403-6	02HMSD	T	Solid	Moisture	

Report Basis

T = Total

METALS

COVER PAGE
METALS

Lab Name: TestAmerica Tacoma Job Number: 580-19403-1

SDG No.:

Project: Contact and Sonoma Mine Sites

Client Sample ID	Lab Sample ID
09HMMW	580-19403-1
01CMMW	580-19403-2
03CMMW	580-19403-3
07CMMW	580-19403-4
01HMSD	580-19403-5
02HMSD	580-19403-6
03HMSD	580-19403-7
03CSBG	580-19403-8
01SMMW	580-19403-9
04SMMW	580-19403-10
06SMMW	580-19403-11
07SMMW	580-19403-12
09SMMW	580-19403-13
01HMMW	580-19403-14
03HMSW	580-19403-15
04HMMW	580-19403-16
06HMMW	580-19403-17
18SMSS	580-19403-18
COMPHMRT	580-19403-19
01HMRT	580-19403-20
01HMBG	580-19403-21
04SMSS	580-19403-22
05SMSS	580-19403-23
06SMSS	580-19403-24
07SMSS	580-19403-25
08SMSS	580-19403-26
09SMSS	580-19403-27

Comments:

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: 09HMMW
Lab Sample ID: 580-19403-1
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Water
Date Sampled: 05/16/2010 11:15
Reporting Basis: WET
Date Received: 05/18/2010 09:50

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.0020	0.00024	mg/L		^	5	6020
7440-36-0	Antimony	ND	0.0020	0.00040	mg/L		^	5	6020
7440-39-3	Barium	ND	0.0060	0.00027	mg/L		^	5	6020
7440-41-7	Beryllium	ND	0.0020	0.00026	mg/L			5	6020
7440-43-9	Cadmium	ND	0.0020	0.00014	mg/L			5	6020
7440-47-3	Chromium	0.014	0.0020	0.00037	mg/L		^	5	6020
7439-92-1	Lead	ND	0.0020	0.00017	mg/L			5	6020
7440-48-4	Cobalt	ND	0.0020	0.00016	mg/L		^	5	6020
7440-50-8	Copper	ND	0.0050	0.00015	mg/L		^	5	6020
7439-89-6	Iron	ND	0.20	0.029	mg/L			5	6020
7439-96-5	Manganese	0.0022	0.0020	0.000062	mg/L		^	5	6020
7440-02-0	Nickel	0.0034	0.0020	0.00022	mg/L		^	5	6020
7782-49-2	Selenium	ND	0.0020	0.00034	mg/L			5	6020
7440-22-4	Silver	ND	0.0020	0.00015	mg/L			5	6020
7440-28-0	Thallium	ND	0.0040	0.000060	mg/L			5	6020
7440-62-2	Vanadium	0.0051	0.0020	0.00023	mg/L			5	6020
7440-66-6	Zinc	ND	0.0070	0.0020	mg/L		^	5	6020
7429-90-5	Aluminum	ND	0.40	0.0023	mg/L			5	6020
7439-95-4	Magnesium	52	4.0	0.0025	mg/L			5	6020
7440-09-7	Potassium	ND	50	50	mg/L			5	6020
7440-23-5	Sodium	ND	50	50	mg/L			5	6020
7440-70-2	Calcium	ND	50	50	mg/L			5	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: 01CMMW
Lab Sample ID: 580-19403-2
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Water
Date Sampled: 05/15/2010 13:50
Reporting Basis: WET
Date Received: 05/18/2010 09:50

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.0020	0.00024	mg/L		^	5	6020
7440-36-0	Antimony	0.0020	0.0020	0.00040	mg/L		^	5	6020
7440-39-3	Barium	0.057	0.0060	0.00027	mg/L		^	5	6020
7440-41-7	Beryllium	ND	0.0020	0.00026	mg/L			5	6020
7440-43-9	Cadmium	ND	0.0020	0.00014	mg/L			5	6020
7440-47-3	Chromium	ND	0.0020	0.00037	mg/L		^	5	6020
7439-92-1	Lead	ND	0.0020	0.00017	mg/L			5	6020
7440-48-4	Cobalt	ND	0.0020	0.00016	mg/L		^	5	6020
7440-50-8	Copper	ND	0.0050	0.00015	mg/L		^	5	6020
7439-89-6	Iron	ND	0.20	0.029	mg/L			5	6020
7439-96-5	Manganese	0.0085	0.0020	0.000062	mg/L		^	5	6020
7440-02-0	Nickel	ND	0.0020	0.00022	mg/L		^	5	6020
7782-49-2	Selenium	ND	0.0020	0.00034	mg/L			5	6020
7440-22-4	Silver	ND	0.0020	0.00015	mg/L			5	6020
7440-28-0	Thallium	ND	0.0040	0.000060	mg/L			5	6020
7440-62-2	Vanadium	0.0033	0.0020	0.00023	mg/L			5	6020
7440-66-6	Zinc	ND	0.0070	0.0020	mg/L		^	5	6020
7429-90-5	Aluminum	ND	0.40	0.0023	mg/L			5	6020
7439-95-4	Magnesium	14	4.0	0.0025	mg/L			5	6020
7440-09-7	Potassium	ND	50	50	mg/L			5	6020
7440-23-5	Sodium	ND	50	50	mg/L			5	6020
7440-70-2	Calcium	ND	50	50	mg/L			5	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: 03CMMW
Lab Sample ID: 580-19403-3
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Water
Date Sampled: 05/16/2010 16:25
Reporting Basis: WET
Date Received: 05/18/2010 09:50

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.0020	0.00024	mg/L		^	5	6020
7440-36-0	Antimony	ND	0.0020	0.00040	mg/L		^	5	6020
7440-39-3	Barium	0.26	0.0060	0.00027	mg/L		^	5	6020
7440-41-7	Beryllium	ND	0.0020	0.00026	mg/L			5	6020
7440-43-9	Cadmium	ND	0.0020	0.00014	mg/L			5	6020
7440-47-3	Chromium	0.0025	0.0020	0.00037	mg/L		^	5	6020
7439-92-1	Lead	ND	0.0020	0.00017	mg/L			5	6020
7440-48-4	Cobalt	ND	0.0020	0.00016	mg/L		^	5	6020
7440-50-8	Copper	ND	0.0050	0.00015	mg/L		^	5	6020
7439-89-6	Iron	ND	0.20	0.029	mg/L			5	6020
7439-96-5	Manganese	0.027	0.0020	0.000062	mg/L		^	5	6020
7440-02-0	Nickel	0.0039	0.0020	0.00022	mg/L		^	5	6020
7782-49-2	Selenium	ND	0.0020	0.00034	mg/L			5	6020
7440-22-4	Silver	ND	0.0020	0.00015	mg/L			5	6020
7440-28-0	Thallium	ND	0.0040	0.000060	mg/L			5	6020
7440-62-2	Vanadium	0.0045	0.0020	0.00023	mg/L			5	6020
7440-66-6	Zinc	ND	0.0070	0.0020	mg/L		^	5	6020
7429-90-5	Aluminum	ND	0.40	0.0023	mg/L			5	6020
7439-95-4	Magnesium	34	4.0	0.0025	mg/L			5	6020
7440-09-7	Potassium	ND	50	50	mg/L			5	6020
7440-23-5	Sodium	ND	50	50	mg/L			5	6020
7440-70-2	Calcium	ND	50	50	mg/L			5	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: 07CMMW
Lab Sample ID: 580-19403-4
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Water
Date Sampled: 05/16/2010 15:45
Reporting Basis: WET
Date Received: 05/18/2010 09:50

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0026	0.0020	0.00024	mg/L		^	5	6020
7440-36-0	Antimony	ND	0.0020	0.00040	mg/L		^	5	6020
7440-39-3	Barium	0.049	0.0060	0.00027	mg/L		^	5	6020
7440-41-7	Beryllium	ND	0.0020	0.00026	mg/L			5	6020
7440-43-9	Cadmium	ND	0.0020	0.00014	mg/L			5	6020
7440-47-3	Chromium	ND	0.0020	0.00037	mg/L		^	5	6020
7439-92-1	Lead	ND	0.0020	0.00017	mg/L			5	6020
7440-48-4	Cobalt	ND	0.0020	0.00016	mg/L		^	5	6020
7440-50-8	Copper	ND	0.0050	0.00015	mg/L		^	5	6020
7439-89-6	Iron	ND	0.20	0.029	mg/L			5	6020
7439-96-5	Manganese	0.023	0.0020	0.000062	mg/L		^	5	6020
7440-02-0	Nickel	ND	0.0020	0.00022	mg/L		^	5	6020
7782-49-2	Selenium	ND	0.0020	0.00034	mg/L			5	6020
7440-22-4	Silver	ND	0.0020	0.00015	mg/L			5	6020
7440-28-0	Thallium	ND	0.0040	0.000060	mg/L			5	6020
7440-62-2	Vanadium	0.0077	0.0020	0.00023	mg/L			5	6020
7440-66-6	Zinc	0.017	0.0070	0.0020	mg/L		^	5	6020
7429-90-5	Aluminum	ND	0.40	0.0023	mg/L			5	6020
7439-95-4	Magnesium	38	4.0	0.0025	mg/L			5	6020
7440-09-7	Potassium	ND	50	50	mg/L			5	6020
7440-23-5	Sodium	ND	50	50	mg/L			5	6020
7440-70-2	Calcium	ND	50	50	mg/L			5	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 01HMSD
Lab Sample ID: 580-19403-5
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/04/2010 13:00
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 43.1

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	2.0	0.43	0.0087	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.43	0.14	mg/Kg		^	10	6020
7440-39-3	Barium	200	0.43	0.032	mg/Kg			10	6020
7440-41-7	Beryllium	ND	0.43	0.015	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.43	0.010	mg/Kg			10	6020
7440-47-3	Chromium	160	0.43	0.087	mg/Kg		^	10	6020
7439-92-1	Lead	ND	0.43	0.023	mg/Kg			10	6020
7440-48-4	Cobalt	1200	0.43	0.012	mg/Kg		^	10	6020
7440-50-8	Copper	2.7	0.43	0.070	mg/Kg		^	10	6020
7439-89-6	Iron	420000	43	7.5	mg/Kg			10	6020
7439-96-5	Manganese	16000	1.1	0.34	mg/Kg		^	10	6020
7440-02-0	Nickel	10000	0.43	0.080	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	1.1	0.0087	mg/Kg			10	6020
7440-22-4	Silver	ND	0.43	0.0089	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.87	0.087	mg/Kg			10	6020
7440-62-2	Vanadium	3.5	0.43	0.058	mg/Kg			10	6020
7440-66-6	Zinc	310	1.5	0.33	mg/Kg		^	10	6020
7429-90-5	Aluminum	920	65	6.5	mg/Kg			10	6020
7439-95-4	Magnesium	21000	220	5.7	mg/Kg			10	6020
7440-09-7	Potassium	ND	220	7.2	mg/Kg			10	6020
7440-23-5	Sodium	ND	220	85	mg/Kg			10	6020
7440-70-2	Calcium	6700	220	19	mg/Kg			10	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 02HMSD
Lab Sample ID: 580-19403-6
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/04/2010 15:45
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 89.0

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	5.4	0.20	0.0040	mg/Kg		^	10	6020
7440-36-0	Antimony	0.22	0.20	0.066	mg/Kg		^	10	6020
7440-39-3	Barium	110	0.20	0.015	mg/Kg			10	6020
7440-41-7	Beryllium	0.33	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	150	0.20	0.040	mg/Kg		^	10	6020
7439-92-1	Lead	6.5	0.20	0.010	mg/Kg			10	6020
7440-48-4	Cobalt	32	0.20	0.0054	mg/Kg		^	10	6020
7440-50-8	Copper	25	0.20	0.032	mg/Kg		^	10	6020
7439-89-6	Iron	38000	20	3.5	mg/Kg			10	6020
7439-96-5	Manganese	650	0.50	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	480	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	46	0.20	0.027	mg/Kg			10	6020
7440-66-6	Zinc	60	0.70	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	13000	30	3.0	mg/Kg			10	6020
7439-95-4	Magnesium	40000	100	2.6	mg/Kg			10	6020
7440-09-7	Potassium	470	100	3.3	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	39	mg/Kg			10	6020
7440-70-2	Calcium	5000	100	8.9	mg/Kg			10	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 03HMSD
Lab Sample ID: 580-19403-7
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/07/2010 13:39
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 79.1

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.47	0.21	0.0043	mg/Kg		^	10	6020
7440-36-0	Antimony	ND	0.21	0.070	mg/Kg		^	10	6020
7440-39-3	Barium	19	0.21	0.016	mg/Kg			10	6020
7440-41-7	Beryllium	ND	0.21	0.0073	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.21	0.0050	mg/Kg			10	6020
7440-47-3	Chromium	610	0.21	0.043	mg/Kg		^	10	6020
7439-92-1	Lead	0.54	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	88	0.21	0.0057	mg/Kg		^	10	6020
7440-50-8	Copper	6.7	0.21	0.034	mg/Kg		^	10	6020
7439-89-6	Iron	100000	21	3.7	mg/Kg			10	6020
7439-96-5	Manganese	520	0.53	0.17	mg/Kg		^	10	6020
7440-02-0	Nickel	2000	0.21	0.039	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	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	13	0.21	0.028	mg/Kg			10	6020
7440-66-6	Zinc	24	0.75	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	1000	32	3.2	mg/Kg			10	6020
7439-95-4	Magnesium	170000	110	2.8	mg/Kg			10	6020
7440-09-7	Potassium	ND	110	3.5	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	42	mg/Kg			10	6020
7440-70-2	Calcium	1800	110	9.4	mg/Kg			10	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 03CSBG
Lab Sample ID: 580-19403-8
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/16/2010 15:10
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 97.0

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	8.3	0.21	0.0041	mg/Kg		^	10	6020
7440-36-0	Antimony	0.62	0.21	0.067	mg/Kg		^	10	6020
7440-39-3	Barium	240	0.21	0.015	mg/Kg			10	6020
7440-41-7	Beryllium	0.78	0.21	0.0071	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.21	0.0048	mg/Kg			10	6020
7440-47-3	Chromium	160	0.21	0.041	mg/Kg		^	10	6020
7439-92-1	Lead	12	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	26	0.21	0.0055	mg/Kg		^	10	6020
7440-50-8	Copper	46	0.21	0.033	mg/Kg		^	10	6020
7439-89-6	Iron	39000	21	3.5	mg/Kg			10	6020
7439-96-5	Manganese	860	0.51	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	240	0.21	0.038	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.51	0.0041	mg/Kg			10	6020
7440-22-4	Silver	ND	0.21	0.0042	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.41	0.041	mg/Kg			10	6020
7440-62-2	Vanadium	64	0.21	0.027	mg/Kg			10	6020
7440-66-6	Zinc	71	0.72	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	20000	31	3.1	mg/Kg			10	6020
7439-95-4	Magnesium	19000	100	2.7	mg/Kg			10	6020
7440-09-7	Potassium	900	100	3.4	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	40	mg/Kg			10	6020
7440-70-2	Calcium	2000	100	9.1	mg/Kg			10	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: 01SMMW
Lab Sample ID: 580-19403-9
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Water
Date Sampled: 05/15/2010 12:00
Reporting Basis: WET
Date Received: 05/18/2010 09:50

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0032	0.0020	0.00024	mg/L		^	5	6020
7440-36-0	Antimony	0.0024	0.0020	0.00040	mg/L		^	5	6020
7440-39-3	Barium	0.049	0.0060	0.00027	mg/L		^	5	6020
7440-41-7	Beryllium	ND	0.0020	0.00026	mg/L			5	6020
7440-43-9	Cadmium	ND	0.0020	0.00014	mg/L			5	6020
7440-47-3	Chromium	ND	0.0020	0.00037	mg/L		^	5	6020
7439-92-1	Lead	ND	0.0020	0.00017	mg/L			5	6020
7440-48-4	Cobalt	ND	0.0020	0.00016	mg/L		^	5	6020
7440-50-8	Copper	ND	0.0050	0.00015	mg/L		^	5	6020
7439-89-6	Iron	ND	0.20	0.029	mg/L			5	6020
7439-96-5	Manganese	0.097	0.0020	0.000062	mg/L		^	5	6020
7440-02-0	Nickel	0.0032	0.0020	0.00022	mg/L		^	5	6020
7782-49-2	Selenium	ND	0.0020	0.00034	mg/L			5	6020
7440-22-4	Silver	ND	0.0020	0.00015	mg/L			5	6020
7440-28-0	Thallium	ND	0.0040	0.000060	mg/L			5	6020
7440-62-2	Vanadium	0.0054	0.0020	0.00023	mg/L			5	6020
7440-66-6	Zinc	ND	0.0070	0.0020	mg/L		^	5	6020
7429-90-5	Aluminum	ND	0.40	0.0023	mg/L			5	6020
7439-95-4	Magnesium	33	4.0	0.0025	mg/L			5	6020
7440-09-7	Potassium	ND	50	50	mg/L			5	6020
7440-23-5	Sodium	ND	50	50	mg/L			5	6020
7440-70-2	Calcium	73	50	50	mg/L			5	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: 04SMMW
Lab Sample ID: 580-19403-10
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Water
Date Sampled: 05/14/2010 18:45
Reporting Basis: WET
Date Received: 05/18/2010 09:50

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0030	0.0020	0.00024	mg/L		^	5	6020
7440-36-0	Antimony	ND	0.0020	0.00040	mg/L		^	5	6020
7440-39-3	Barium	0.0085	0.0060	0.00027	mg/L		^	5	6020
7440-41-7	Beryllium	ND	0.0020	0.00026	mg/L			5	6020
7440-43-9	Cadmium	ND	0.0020	0.00014	mg/L			5	6020
7440-47-3	Chromium	ND	0.0020	0.00037	mg/L		^	5	6020
7439-92-1	Lead	ND	0.0020	0.00017	mg/L			5	6020
7440-48-4	Cobalt	ND	0.0020	0.00016	mg/L		^	5	6020
7440-50-8	Copper	ND	0.0050	0.00015	mg/L		^	5	6020
7439-89-6	Iron	ND	0.20	0.029	mg/L			5	6020
7439-96-5	Manganese	0.032	0.0020	0.000062	mg/L		^	5	6020
7440-02-0	Nickel	0.0025	0.0020	0.00022	mg/L		^	5	6020
7782-49-2	Selenium	ND	0.0020	0.00034	mg/L			5	6020
7440-22-4	Silver	ND	0.0020	0.00015	mg/L			5	6020
7440-28-0	Thallium	ND	0.0040	0.000060	mg/L			5	6020
7440-62-2	Vanadium	0.0084	0.0020	0.00023	mg/L			5	6020
7440-66-6	Zinc	ND	0.0070	0.0020	mg/L		^	5	6020
7429-90-5	Aluminum	ND	0.40	0.0023	mg/L			5	6020
7439-95-4	Magnesium	65	4.0	0.0025	mg/L			5	6020
7440-09-7	Potassium	ND	50	50	mg/L			5	6020
7440-23-5	Sodium	ND	50	50	mg/L			5	6020
7440-70-2	Calcium	ND	50	50	mg/L			5	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: 06SMMW
Lab Sample ID: 580-19403-11
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Water
Date Sampled: 05/14/2010 16:55
Reporting Basis: WET
Date Received: 05/18/2010 09:50

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0052	0.0020	0.00024	mg/L		^	5	6020
7440-36-0	Antimony	ND	0.0020	0.00040	mg/L		^	5	6020
7440-39-3	Barium	0.014	0.0060	0.00027	mg/L		^	5	6020
7440-41-7	Beryllium	ND	0.0020	0.00026	mg/L			5	6020
7440-43-9	Cadmium	ND	0.0020	0.00014	mg/L			5	6020
7440-47-3	Chromium	ND	0.0020	0.00037	mg/L		^	5	6020
7439-92-1	Lead	ND	0.0020	0.00017	mg/L			5	6020
7440-48-4	Cobalt	ND	0.0020	0.00016	mg/L		^	5	6020
7440-50-8	Copper	ND	0.0050	0.00015	mg/L		^	5	6020
7439-89-6	Iron	ND	0.20	0.029	mg/L			5	6020
7439-96-5	Manganese	0.010	0.0020	0.000062	mg/L		^	5	6020
7440-02-0	Nickel	0.0023	0.0020	0.00022	mg/L		^	5	6020
7782-49-2	Selenium	ND	0.0020	0.00034	mg/L			5	6020
7440-22-4	Silver	ND	0.0020	0.00015	mg/L			5	6020
7440-28-0	Thallium	ND	0.0040	0.000060	mg/L			5	6020
7440-62-2	Vanadium	0.012	0.0020	0.00023	mg/L			5	6020
7440-66-6	Zinc	0.0074	0.0070	0.0020	mg/L		^	5	6020
7429-90-5	Aluminum	ND	0.40	0.0023	mg/L			5	6020
7439-95-4	Magnesium	99	4.0	0.0025	mg/L			5	6020
7440-09-7	Potassium	ND	50	50	mg/L			5	6020
7440-23-5	Sodium	64	50	50	mg/L			5	6020
7440-70-2	Calcium	ND	50	50	mg/L			5	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: 07SMMW
Lab Sample ID: 580-19403-12
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Water
Date Sampled: 05/14/2010 14:20
Reporting Basis: WET
Date Received: 05/18/2010 09:50

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0031	0.0020	0.00024	mg/L		^	5	6020
7440-36-0	Antimony	ND	0.0020	0.00040	mg/L		^	5	6020
7440-39-3	Barium	0.035	0.0060	0.00027	mg/L		^	5	6020
7440-41-7	Beryllium	ND	0.0020	0.00026	mg/L			5	6020
7440-43-9	Cadmium	ND	0.0020	0.00014	mg/L			5	6020
7440-47-3	Chromium	ND	0.0020	0.00037	mg/L		^	5	6020
7439-92-1	Lead	ND	0.0020	0.00017	mg/L			5	6020
7440-48-4	Cobalt	ND	0.0020	0.00016	mg/L		^	5	6020
7440-50-8	Copper	ND	0.0050	0.00015	mg/L		^	5	6020
7439-89-6	Iron	ND	0.20	0.029	mg/L			5	6020
7439-96-5	Manganese	0.056	0.0020	0.000062	mg/L		^	5	6020
7440-02-0	Nickel	0.0094	0.0020	0.00022	mg/L		^	5	6020
7782-49-2	Selenium	ND	0.0020	0.00034	mg/L			5	6020
7440-22-4	Silver	ND	0.0020	0.00015	mg/L			5	6020
7440-28-0	Thallium	ND	0.0040	0.000060	mg/L			5	6020
7440-62-2	Vanadium	0.011	0.0020	0.00023	mg/L			5	6020
7440-66-6	Zinc	ND	0.0070	0.0020	mg/L		^	5	6020
7429-90-5	Aluminum	ND	0.40	0.0023	mg/L			5	6020
7439-95-4	Magnesium	90	4.0	0.0025	mg/L			5	6020
7440-09-7	Potassium	ND	50	50	mg/L			5	6020
7440-23-5	Sodium	ND	50	50	mg/L			5	6020
7440-70-2	Calcium	ND	50	50	mg/L			5	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: 09SMMW
Lab Sample ID: 580-19403-13
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Water
Date Sampled: 05/14/2010 13:30
Reporting Basis: WET
Date Received: 05/18/2010 09:50

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.0020	0.00024	mg/L		^	5	6020
7440-36-0	Antimony	ND	0.0020	0.00040	mg/L		^	5	6020
7440-39-3	Barium	0.18	0.0060	0.00027	mg/L		^	5	6020
7440-41-7	Beryllium	ND	0.0020	0.00026	mg/L			5	6020
7440-43-9	Cadmium	ND	0.0020	0.00014	mg/L			5	6020
7440-47-3	Chromium	ND	0.0020	0.00037	mg/L		^	5	6020
7439-92-1	Lead	ND	0.0020	0.00017	mg/L			5	6020
7440-48-4	Cobalt	ND	0.0020	0.00016	mg/L		^	5	6020
7440-50-8	Copper	ND	0.0050	0.00015	mg/L		^	5	6020
7439-89-6	Iron	ND	0.20	0.029	mg/L			5	6020
7439-96-5	Manganese	0.10	0.0020	0.000062	mg/L		^	5	6020
7440-02-0	Nickel	0.0094	0.0020	0.00022	mg/L		^	5	6020
7782-49-2	Selenium	ND	0.0020	0.00034	mg/L			5	6020
7440-22-4	Silver	ND	0.0020	0.00015	mg/L			5	6020
7440-28-0	Thallium	ND	0.0040	0.000060	mg/L			5	6020
7440-62-2	Vanadium	0.0097	0.0020	0.00023	mg/L			5	6020
7440-66-6	Zinc	ND	0.0070	0.0020	mg/L		^	5	6020
7429-90-5	Aluminum	ND	0.40	0.0023	mg/L			5	6020
7439-95-4	Magnesium	27	4.0	0.0025	mg/L			5	6020
7440-09-7	Potassium	ND	50	50	mg/L			5	6020
7440-23-5	Sodium	ND	50	50	mg/L			5	6020
7440-70-2	Calcium	ND	50	50	mg/L			5	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: 01HMMW
Lab Sample ID: 580-19403-14
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Water
Date Sampled: 05/16/2010 08:00
Reporting Basis: WET
Date Received: 05/18/2010 09:50

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.0020	0.00024	mg/L		^	5	6020
7440-36-0	Antimony	ND	0.0020	0.00040	mg/L		^	5	6020
7440-39-3	Barium	0.038	0.0060	0.00027	mg/L		^	5	6020
7440-41-7	Beryllium	ND	0.0020	0.00026	mg/L			5	6020
7440-43-9	Cadmium	ND	0.0020	0.00014	mg/L			5	6020
7440-47-3	Chromium	0.0050	0.0020	0.00037	mg/L		^	5	6020
7439-92-1	Lead	ND	0.0020	0.00017	mg/L			5	6020
7440-48-4	Cobalt	ND	0.0020	0.00016	mg/L		^	5	6020
7440-50-8	Copper	ND	0.0050	0.00015	mg/L		^	5	6020
7439-89-6	Iron	ND	0.20	0.029	mg/L			5	6020
7439-96-5	Manganese	ND	0.0020	0.000062	mg/L		^	5	6020
7440-02-0	Nickel	0.083	0.0020	0.00022	mg/L		^	5	6020
7782-49-2	Selenium	ND	0.0020	0.00034	mg/L			5	6020
7440-22-4	Silver	ND	0.0020	0.00015	mg/L			5	6020
7440-28-0	Thallium	ND	0.0040	0.000060	mg/L			5	6020
7440-62-2	Vanadium	0.0094	0.0020	0.00023	mg/L			5	6020
7440-66-6	Zinc	ND	0.0070	0.0020	mg/L		^	5	6020
7429-90-5	Aluminum	ND	0.40	0.0023	mg/L			5	6020
7439-95-4	Magnesium	51	4.0	0.0025	mg/L			5	6020
7440-09-7	Potassium	ND	50	50	mg/L			5	6020
7440-23-5	Sodium	ND	50	50	mg/L			5	6020
7440-70-2	Calcium	ND	50	50	mg/L			5	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: 03HMSW
Lab Sample ID: 580-19403-15
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Water
Date Sampled: 05/16/2010 08:30
Reporting Basis: WET
Date Received: 05/18/2010 09:50

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.0020	0.00024	mg/L		^	5	6020
7440-36-0	Antimony	ND	0.0020	0.00040	mg/L		^	5	6020
7440-39-3	Barium	0.036	0.0060	0.00027	mg/L		^	5	6020
7440-41-7	Beryllium	ND	0.0020	0.00026	mg/L			5	6020
7440-43-9	Cadmium	ND	0.0020	0.00014	mg/L			5	6020
7440-47-3	Chromium	0.0081	0.0020	0.00037	mg/L		^	5	6020
7439-92-1	Lead	ND	0.0020	0.00017	mg/L			5	6020
7440-48-4	Cobalt	ND	0.0020	0.00016	mg/L		^	5	6020
7440-50-8	Copper	ND	0.0050	0.00015	mg/L		^	5	6020
7439-89-6	Iron	ND	0.20	0.029	mg/L			5	6020
7439-96-5	Manganese	ND	0.0020	0.000062	mg/L		^	5	6020
7440-02-0	Nickel	0.11	0.0020	0.00022	mg/L		^	5	6020
7782-49-2	Selenium	ND	0.0020	0.00034	mg/L			5	6020
7440-22-4	Silver	ND	0.0020	0.00015	mg/L			5	6020
7440-28-0	Thallium	ND	0.0040	0.000060	mg/L			5	6020
7440-62-2	Vanadium	0.0093	0.0020	0.00023	mg/L			5	6020
7440-66-6	Zinc	ND	0.0070	0.0020	mg/L		^	5	6020
7429-90-5	Aluminum	ND	0.40	0.0023	mg/L			5	6020
7439-95-4	Magnesium	50	4.0	0.0025	mg/L			5	6020
7440-09-7	Potassium	ND	50	50	mg/L			5	6020
7440-23-5	Sodium	ND	50	50	mg/L			5	6020
7440-70-2	Calcium	ND	50	50	mg/L			5	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: 04HMMW
Lab Sample ID: 580-19403-16
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Water
Date Sampled: 05/16/2010 10:00
Reporting Basis: WET
Date Received: 05/18/2010 09:50

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	0.0027	0.0020	0.00024	mg/L		^	5	6020
7440-36-0	Antimony	ND	0.0020	0.00040	mg/L		^	5	6020
7440-39-3	Barium	0.043	0.0060	0.00027	mg/L		^	5	6020
7440-41-7	Beryllium	ND	0.0020	0.00026	mg/L			5	6020
7440-43-9	Cadmium	ND	0.0020	0.00014	mg/L			5	6020
7440-47-3	Chromium	ND	0.0020	0.00037	mg/L		^	5	6020
7439-92-1	Lead	ND	0.0020	0.00017	mg/L			5	6020
7440-48-4	Cobalt	ND	0.0020	0.00016	mg/L		^	5	6020
7440-50-8	Copper	ND	0.0050	0.00015	mg/L		^	5	6020
7439-89-6	Iron	ND	0.20	0.029	mg/L			5	6020
7439-96-5	Manganese	0.037	0.0020	0.000062	mg/L		^	5	6020
7440-02-0	Nickel	0.0040	0.0020	0.00022	mg/L		^	5	6020
7782-49-2	Selenium	ND	0.0020	0.00034	mg/L			5	6020
7440-22-4	Silver	ND	0.0020	0.00015	mg/L			5	6020
7440-28-0	Thallium	ND	0.0040	0.000060	mg/L			5	6020
7440-62-2	Vanadium	0.0095	0.0020	0.00023	mg/L			5	6020
7440-66-6	Zinc	ND	0.0070	0.0020	mg/L		^	5	6020
7429-90-5	Aluminum	ND	0.40	0.0023	mg/L			5	6020
7439-95-4	Magnesium	20	4.0	0.0025	mg/L			5	6020
7440-09-7	Potassium	ND	50	50	mg/L			5	6020
7440-23-5	Sodium	ND	50	50	mg/L			5	6020
7440-70-2	Calcium	55	50	50	mg/L			5	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS - DISSOLVED

Client Sample ID: 06HMMW
Lab Sample ID: 580-19403-17
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Water
Date Sampled: 05/16/2010 12:00
Reporting Basis: WET
Date Received: 05/18/2010 09:50

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	ND	0.0020	0.00024	mg/L		^	5	6020
7440-36-0	Antimony	ND	0.0020	0.00040	mg/L		^	5	6020
7440-39-3	Barium	0.067	0.0060	0.00027	mg/L		^	5	6020
7440-41-7	Beryllium	ND	0.0020	0.00026	mg/L			5	6020
7440-43-9	Cadmium	ND	0.0020	0.00014	mg/L			5	6020
7440-47-3	Chromium	0.0051	0.0020	0.00037	mg/L		^	5	6020
7439-92-1	Lead	ND	0.0020	0.00017	mg/L			5	6020
7440-48-4	Cobalt	ND	0.0020	0.00016	mg/L		^	5	6020
7440-50-8	Copper	ND	0.0050	0.00015	mg/L		^	5	6020
7439-89-6	Iron	ND	0.20	0.029	mg/L			5	6020
7439-96-5	Manganese	ND	0.0020	0.000062	mg/L		^	5	6020
7440-02-0	Nickel	0.0070	0.0020	0.00022	mg/L		^	5	6020
7782-49-2	Selenium	ND	0.0020	0.00034	mg/L			5	6020
7440-22-4	Silver	ND	0.0020	0.00015	mg/L			5	6020
7440-28-0	Thallium	ND	0.0040	0.000060	mg/L			5	6020
7440-62-2	Vanadium	0.0083	0.0020	0.00023	mg/L			5	6020
7440-66-6	Zinc	ND	0.0070	0.0020	mg/L		^	5	6020
7429-90-5	Aluminum	ND	0.40	0.0023	mg/L			5	6020
7439-95-4	Magnesium	29	4.0	0.0025	mg/L			5	6020
7440-09-7	Potassium	ND	50	50	mg/L			5	6020
7440-23-5	Sodium	ND	50	50	mg/L			5	6020
7440-70-2	Calcium	ND	50	50	mg/L			5	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 18SMSS
Lab Sample ID: 580-19403-18
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/10/2010 09:15
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 84.8

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	10	0.21	0.0043	mg/Kg		^	10	6020
7440-36-0	Antimony	0.48	0.21	0.070	mg/Kg		^	10	6020
7440-39-3	Barium	250	0.21	0.016	mg/Kg			10	6020
7440-41-7	Beryllium	0.60	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	100	0.21	0.043	mg/Kg		^	10	6020
7439-92-1	Lead	24	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	26	0.21	0.0057	mg/Kg		^	10	6020
7440-50-8	Copper	48	0.21	0.034	mg/Kg		^	10	6020
7439-89-6	Iron	40000	21	3.7	mg/Kg			10	6020
7439-96-5	Manganese	670	0.53	0.17	mg/Kg		^	10	6020
7440-02-0	Nickel	260	0.21	0.039	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	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	44	0.21	0.029	mg/Kg			10	6020
7440-66-6	Zinc	100	0.75	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	16000	32	3.2	mg/Kg			10	6020
7439-95-4	Magnesium	11000	110	2.8	mg/Kg			10	6020
7440-09-7	Potassium	1600	110	3.5	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	42	mg/Kg			10	6020
7440-70-2	Calcium	2500	110	9.5	mg/Kg			10	6020
7439-97-6	Mercury	21	13	4.2	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: COMPHMRT
Lab Sample ID: 580-19403-19
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/05/2010 09:17
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 78.1

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	4.2	0.23	0.0046	mg/Kg		^	10	6020
7440-36-0	Antimony	0.75	0.23	0.076	mg/Kg		^	10	6020
7440-39-3	Barium	300	0.23	0.017	mg/Kg			10	6020
7440-41-7	Beryllium	ND	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	530	0.23	0.046	mg/Kg		^	10	6020
7439-92-1	Lead	49	0.23	0.012	mg/Kg			10	6020
7440-48-4	Cobalt	84	0.23	0.0062	mg/Kg		^	10	6020
7440-50-8	Copper	26	0.23	0.037	mg/Kg		^	10	6020
7439-89-6	Iron	71000	23	4.0	mg/Kg			10	6020
7439-96-5	Manganese	500	0.58	0.18	mg/Kg		^	10	6020
7440-02-0	Nickel	1200	0.23	0.042	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.58	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	32	0.23	0.031	mg/Kg			10	6020
7440-66-6	Zinc	55	0.81	0.17	mg/Kg		^	10	6020
7429-90-5	Aluminum	6600	35	3.5	mg/Kg			10	6020
7439-95-4	Magnesium	16000	120	3.0	mg/Kg			10	6020
7440-09-7	Potassium	560	120	3.8	mg/Kg			10	6020
7440-23-5	Sodium	ND	120	45	mg/Kg			10	6020
7440-70-2	Calcium	1600	120	10	mg/Kg			10	6020
7439-97-6	Mercury	670	24	7.5	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 01HMRT
Lab Sample ID: 580-19403-20
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/05/2010 08:55
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 74.8

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	12	0.24	0.0049	mg/Kg		^	10	6020
7440-36-0	Antimony	1.5	0.24	0.080	mg/Kg		^	10	6020
7440-39-3	Barium	170	0.24	0.018	mg/Kg			10	6020
7440-41-7	Beryllium	ND	0.24	0.0084	mg/Kg			10	6020
7440-43-9	Cadmium	1.8	0.24	0.0057	mg/Kg			10	6020
7440-47-3	Chromium	160	0.24	0.049	mg/Kg		^	10	6020
7439-92-1	Lead	33	0.24	0.013	mg/Kg			10	6020
7440-48-4	Cobalt	25	0.24	0.0065	mg/Kg		^	10	6020
7440-50-8	Copper	29	0.24	0.039	mg/Kg		^	10	6020
7439-89-6	Iron	91000	24	4.2	mg/Kg			10	6020
7439-96-5	Manganese	800	0.61	0.19	mg/Kg		^	10	6020
7440-02-0	Nickel	390	0.24	0.045	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.61	0.0049	mg/Kg			10	6020
7440-22-4	Silver	ND	0.24	0.0050	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.49	0.049	mg/Kg			10	6020
7440-62-2	Vanadium	29	0.24	0.032	mg/Kg			10	6020
7440-66-6	Zinc	1000	0.85	0.18	mg/Kg		^	10	6020
7429-90-5	Aluminum	5700	36	3.6	mg/Kg			10	6020
7439-95-4	Magnesium	24000	120	3.2	mg/Kg			10	6020
7440-09-7	Potassium	770	120	4.0	mg/Kg			10	6020
7440-23-5	Sodium	ND	120	48	mg/Kg			10	6020
7440-70-2	Calcium	18000	120	11	mg/Kg			10	6020
7439-97-6	Mercury	60	22	7.0	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 01HMBG
Lab Sample ID: 580-19403-21
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/07/2010 08:25
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 80.7

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	1.7	0.24	0.0048	mg/Kg		^	10	6020
7440-36-0	Antimony	2.2	0.24	0.079	mg/Kg		^	10	6020
7440-39-3	Barium	11	0.24	0.018	mg/Kg			10	6020
7440-41-7	Beryllium	ND	0.24	0.0083	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.24	0.0056	mg/Kg			10	6020
7440-47-3	Chromium	590	0.24	0.048	mg/Kg		^	10	6020
7439-92-1	Lead	11	0.24	0.012	mg/Kg			10	6020
7440-48-4	Cobalt	7.8	0.24	0.0064	mg/Kg		^	10	6020
7440-50-8	Copper	17	0.24	0.039	mg/Kg		^	10	6020
7439-89-6	Iron	53000	24	4.1	mg/Kg			10	6020
7439-96-5	Manganese	85	0.60	0.19	mg/Kg		^	10	6020
7440-02-0	Nickel	110	0.24	0.044	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.60	0.0048	mg/Kg			10	6020
7440-22-4	Silver	ND	0.24	0.0049	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.48	0.048	mg/Kg			10	6020
7440-62-2	Vanadium	26	0.24	0.032	mg/Kg			10	6020
7440-66-6	Zinc	10	0.84	0.18	mg/Kg		^	10	6020
7429-90-5	Aluminum	1200	36	3.6	mg/Kg			10	6020
7439-95-4	Magnesium	210	120	3.2	mg/Kg			10	6020
7440-09-7	Potassium	ND	120	4.0	mg/Kg			10	6020
7440-23-5	Sodium	ND	120	47	mg/Kg			10	6020
7440-70-2	Calcium	290	120	11	mg/Kg			10	6020

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 04SMSS
Lab Sample ID: 580-19403-22
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 08:30
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 87.6

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	0.72	0.21	0.070	mg/Kg		^	10	6020
7440-39-3	Barium	170	0.21	0.016	mg/Kg			10	6020
7440-41-7	Beryllium	0.53	0.21	0.0074	mg/Kg			10	6020
7440-43-9	Cadmium	0.21	0.21	0.0050	mg/Kg			10	6020
7440-47-3	Chromium	250	0.21	0.043	mg/Kg		^	10	6020
7439-92-1	Lead	24	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	67	0.21	0.0057	mg/Kg		^	10	6020
7440-50-8	Copper	49	0.21	0.034	mg/Kg		^	10	6020
7439-89-6	Iron	56000	21	3.7	mg/Kg			10	6020
7439-96-5	Manganese	940	0.53	0.17	mg/Kg		^	10	6020
7440-02-0	Nickel	1200	0.21	0.039	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	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	46	0.21	0.028	mg/Kg			10	6020
7440-66-6	Zinc	110	0.75	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	9200	32	3.2	mg/Kg			10	6020
7439-95-4	Magnesium	33000	110	2.8	mg/Kg			10	6020
7440-09-7	Potassium	920	110	3.5	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	42	mg/Kg			10	6020
7440-70-2	Calcium	2100	110	9.4	mg/Kg			10	6020
7439-97-6	Mercury	21	2.0	0.63	mg/Kg			100	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 05SMSS
Lab Sample ID: 580-19403-23
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 08:40
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 89.7

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	8.0	0.22	0.0044	mg/Kg		^	10	6020
7440-36-0	Antimony	0.34	0.22	0.072	mg/Kg		^	10	6020
7440-39-3	Barium	230	0.22	0.016	mg/Kg			10	6020
7440-41-7	Beryllium	0.47	0.22	0.0076	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.22	0.0051	mg/Kg			10	6020
7440-47-3	Chromium	270	0.22	0.044	mg/Kg		^	10	6020
7439-92-1	Lead	12	0.22	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	58	0.22	0.0059	mg/Kg		^	10	6020
7440-50-8	Copper	37	0.22	0.035	mg/Kg		^	10	6020
7439-89-6	Iron	47000	22	3.8	mg/Kg			10	6020
7439-96-5	Manganese	840	0.55	0.17	mg/Kg		^	10	6020
7440-02-0	Nickel	950	0.22	0.040	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.55	0.0044	mg/Kg			10	6020
7440-22-4	Silver	ND	0.22	0.0045	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.44	0.044	mg/Kg			10	6020
7440-62-2	Vanadium	43	0.22	0.029	mg/Kg			10	6020
7440-66-6	Zinc	69	0.77	0.16	mg/Kg		^	10	6020
7429-90-5	Aluminum	12000	33	3.3	mg/Kg			10	6020
7439-95-4	Magnesium	57000	110	2.9	mg/Kg			10	6020
7440-09-7	Potassium	720	110	3.6	mg/Kg			10	6020
7440-23-5	Sodium	ND	110	43	mg/Kg			10	6020
7440-70-2	Calcium	1300	110	9.7	mg/Kg			10	6020
7439-97-6	Mercury	42	18	5.6	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 06SMSS
Lab Sample ID: 580-19403-24
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 08:46
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 83.7

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	7.9	0.20	0.0041	mg/Kg		^	10	6020
7440-36-0	Antimony	0.46	0.20	0.067	mg/Kg		^	10	6020
7440-39-3	Barium	310	0.20	0.015	mg/Kg			10	6020
7440-41-7	Beryllium	0.58	0.20	0.0070	mg/Kg			10	6020
7440-43-9	Cadmium	ND	0.20	0.0047	mg/Kg			10	6020
7440-47-3	Chromium	330	0.20	0.041	mg/Kg		^	10	6020
7439-92-1	Lead	24	0.20	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	69	0.20	0.0054	mg/Kg		^	10	6020
7440-50-8	Copper	51	0.20	0.033	mg/Kg		^	10	6020
7439-89-6	Iron	57000	20	3.5	mg/Kg			10	6020
7439-96-5	Manganese	1400	0.51	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	1200	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	55	0.20	0.027	mg/Kg			10	6020
7440-66-6	Zinc	90	0.71	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	16000	30	3.0	mg/Kg			10	6020
7439-95-4	Magnesium	39000	100	2.7	mg/Kg			10	6020
7440-09-7	Potassium	910	100	3.4	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	40	mg/Kg			10	6020
7440-70-2	Calcium	1900	100	9.0	mg/Kg			10	6020
7439-97-6	Mercury	130	23	7.4	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 07SMSS
Lab Sample ID: 580-19403-25
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 09:10
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 94.6

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	8.6	0.20	0.0041	mg/Kg		^	10	6020
7440-36-0	Antimony	1.2	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	0.56	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	250	0.20	0.041	mg/Kg		^	10	6020
7439-92-1	Lead	25	0.20	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	97	0.20	0.0054	mg/Kg		^	10	6020
7440-50-8	Copper	38	0.20	0.033	mg/Kg		^	10	6020
7439-89-6	Iron	69000	20	3.5	mg/Kg			10	6020
7439-96-5	Manganese	1000	0.51	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	1800	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	41	0.20	0.027	mg/Kg			10	6020
7440-66-6	Zinc	73	0.71	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	8100	31	3.1	mg/Kg			10	6020
7439-95-4	Magnesium	40000	100	2.7	mg/Kg			10	6020
7440-09-7	Potassium	820	100	3.4	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	40	mg/Kg			10	6020
7440-70-2	Calcium	960	100	9.0	mg/Kg			10	6020
7439-97-6	Mercury	24	19	5.9	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 08SMSS
Lab Sample ID: 580-19403-26
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 09:25
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 88.6

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	7.2	0.20	0.0041	mg/Kg		^	10	6020
7440-36-0	Antimony	0.43	0.20	0.067	mg/Kg		^	10	6020
7440-39-3	Barium	210	0.20	0.015	mg/Kg			10	6020
7440-41-7	Beryllium	0.43	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	180	0.20	0.041	mg/Kg		^	10	6020
7439-92-1	Lead	26	0.20	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	53	0.20	0.0054	mg/Kg		^	10	6020
7440-50-8	Copper	33	0.20	0.033	mg/Kg		^	10	6020
7439-89-6	Iron	45000	20	3.5	mg/Kg			10	6020
7439-96-5	Manganese	720	0.51	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	850	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	40	0.20	0.027	mg/Kg			10	6020
7440-66-6	Zinc	72	0.71	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	12000	30	3.0	mg/Kg			10	6020
7439-95-4	Magnesium	42000	100	2.7	mg/Kg			10	6020
7440-09-7	Potassium	1000	100	3.4	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	40	mg/Kg			10	6020
7440-70-2	Calcium	1700	100	9.0	mg/Kg			10	6020
7439-97-6	Mercury	28	17	5.4	mg/Kg			1000	7471A

1A-IN
INORGANIC ANALYSIS DATA SHEET
METALS

Client Sample ID: 09SMSS
Lab Sample ID: 580-19403-27
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG ID.:
Matrix: Solid
Date Sampled: 05/09/2010 09:35
Reporting Basis: DRY
Date Received: 05/18/2010 09:50
% Solids: 91.1

CAS No.	Analyte	Conc.	RL	MDL	Units	C	Q	DIL	Method
7440-38-2	Arsenic	7.2	0.21	0.0041	mg/Kg		^	10	6020
7440-36-0	Antimony	0.42	0.21	0.068	mg/Kg		^	10	6020
7440-39-3	Barium	250	0.21	0.015	mg/Kg			10	6020
7440-41-7	Beryllium	0.43	0.21	0.0071	mg/Kg			10	6020
7440-43-9	Cadmium	0.31	0.21	0.0048	mg/Kg			10	6020
7440-47-3	Chromium	310	0.21	0.041	mg/Kg		^	10	6020
7439-92-1	Lead	40	0.21	0.011	mg/Kg			10	6020
7440-48-4	Cobalt	56	0.21	0.0055	mg/Kg		^	10	6020
7440-50-8	Copper	37	0.21	0.033	mg/Kg		^	10	6020
7439-89-6	Iron	46000	21	3.5	mg/Kg			10	6020
7439-96-5	Manganese	870	0.51	0.16	mg/Kg		^	10	6020
7440-02-0	Nickel	930	0.21	0.038	mg/Kg		^	10	6020
7782-49-2	Selenium	ND	0.51	0.0041	mg/Kg			10	6020
7440-22-4	Silver	ND	0.21	0.0042	mg/Kg			10	6020
7440-28-0	Thallium	ND	0.41	0.041	mg/Kg			10	6020
7440-62-2	Vanadium	54	0.21	0.027	mg/Kg			10	6020
7440-66-6	Zinc	68	0.72	0.15	mg/Kg		^	10	6020
7429-90-5	Aluminum	14000	31	3.1	mg/Kg			10	6020
7439-95-4	Magnesium	37000	100	2.7	mg/Kg			10	6020
7440-09-7	Potassium	750	100	3.4	mg/Kg			10	6020
7440-23-5	Sodium	ND	100	40	mg/Kg			10	6020
7440-70-2	Calcium	2400	100	9.1	mg/Kg			10	6020
7439-97-6	Mercury	180	21	6.7	mg/Kg			1000	7471A

2A-IN
CALIBRATION VERIFICATIONS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

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

CCV Source: ICP-MS CCV_00004

Analyte	ICV 580-64208/7 05/24/2010 09:11				CCV 580-64208/12 05/24/2010 10:00				CCV 580-64208/19 05/24/2010 10:43			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.386		0.400	96	0.487		0.500	97	0.493		0.500	99
Antimony	0.0397		0.0400	99	0.0515		0.0500	103	0.0507		0.0500	101
Arsenic	0.0390		0.0400	98	0.0482		0.0500	96	0.0486		0.0500	97
Barium	0.0395		0.0400	99	0.0512		0.0500	102	0.0503		0.0500	101
Beryllium	0.0403		0.0400	101	0.0515		0.0500	103	0.0508		0.0500	102
Cadmium	0.0399		0.0400	100	0.0502		0.0500	100	0.0498		0.0500	100
Calcium	ND		4.00	102	ND		5.00	101	ND		5.00	102
Chromium	0.0387		0.0400	97	0.0476		0.0500	95	0.0482		0.0500	96
Cobalt	0.0394		0.0400	98	0.0486		0.0500	97	0.0486		0.0500	97
Copper	0.0394		0.0400	98	0.0482		0.0500	96	0.0486		0.0500	97
Iron	4.03		4.00	101	5.12		5.00	102	5.02		5.00	100
Lead	0.0403		0.0400	101	0.0500		0.0500	100	0.0500		0.0500	100
Magnesium	3.92		4.00	98	4.91		5.00	98	4.84		5.00	97
Manganese	0.0391		0.0400	98	0.0491		0.0500	98	0.0496		0.0500	99
Nickel	0.0393		0.0400	98	0.0483		0.0500	97	0.0482		0.0500	96
Potassium	ND		4.00	98	ND		5.00	100	ND		5.00	100
Selenium	0.0382		0.0400	96	0.0504		0.0500	101	0.0491		0.0500	98
Silver	0.0400		0.0400	100	0.0504		0.0500	101	0.0501		0.0500	100
Sodium	ND		4.00	97	ND		5.00	99	ND		5.00	99
Thallium	0.0400		0.0400	100	0.0491		0.0500	98	0.0497		0.0500	99
Vanadium	0.0384		0.0400	96	0.0482		0.0500	96	0.0485		0.0500	97
Zinc	0.0400		0.0400	100	0.0485		0.0500	97	0.0490		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.: 580-19403-1

SDG No.:

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

CCV Source: ICP-MS CCV_00004

Analyte	CCV 580-64208/30 05/24/2010 11:50				CCV 580-64208/42 05/24/2010 13:04							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.492		0.500	98	0.501		0.500	100				
Antimony	0.0515		0.0500	103	0.0506		0.0500	101				
Arsenic	0.0497		0.0500	99	0.0496		0.0500	99				
Barium	0.0514		0.0500	103	0.0511		0.0500	102				
Beryllium	0.0510		0.0500	102	0.0496		0.0500	99				
Cadmium	0.0513		0.0500	103	0.0500		0.0500	100				
Calcium	ND		5.00	104	ND		5.00	103				
Chromium	0.0485		0.0500	97	0.0488		0.0500	98				
Cobalt	0.0487		0.0500	97	0.0488		0.0500	98				
Copper	0.0488		0.0500	98	0.0489		0.0500	98				
Iron	4.94		5.00	99	4.95		5.00	99				
Lead	0.0502		0.0500	100	0.0501		0.0500	100				
Magnesium	4.87		5.00	97	4.95		5.00	99				
Manganese	0.0498		0.0500	100	0.0511		0.0500	102				
Nickel	0.0483		0.0500	97	0.0477		0.0500	95				
Potassium	ND		5.00	101	ND		5.00	102				
Selenium	0.0494		0.0500	99	0.0484		0.0500	97				
Silver	0.0507		0.0500	101	0.0502		0.0500	100				
Sodium	ND		5.00	96	ND		5.00	98				
Thallium	0.0492		0.0500	98	0.0489		0.0500	98				
Vanadium	0.0485		0.0500	97	0.0490		0.0500	98				
Zinc	0.0493		0.0500	99	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.: 580-19403-1

SDG No.:

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

CCV Source: ICP-MS CCV_00004

Analyte	ICV 580-64859/7 06/02/2010 12:36				CCV 580-64859/44 06/02/2010 17:43				CCV 580-64859/56 06/02/2010 19:09			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.401		0.400	100	0.482		0.500	96	0.473		0.500	95
Antimony	0.0419		0.0400	105	0.0488		0.0500	98	0.0492		0.0500	98
Arsenic	0.0398		0.0400	100	0.0511		0.0500	102	0.0499		0.0500	100
Barium	0.0417		0.0400	104	0.0488		0.0500	98	0.0497		0.0500	99
Beryllium	0.0412		0.0400	103	0.0496		0.0500	99	0.0484		0.0500	97
Cadmium	0.0424		0.0400	106	0.0491		0.0500	98	0.0502		0.0500	100
Calcium	ND		4.00	102	ND		5.00	98	ND		5.00	98
Chromium	0.0404		0.0400	101	0.0512		0.0500	102	0.0506		0.0500	101
Cobalt	0.0407		0.0400	102	0.0520		0.0500	104	0.0518		0.0500	104
Copper	0.0405		0.0400	101	0.0518		0.0500	104	0.0514		0.0500	103
Iron	4.20		4.00	105	5.16		5.00	103	5.17		5.00	103
Lead	0.0420		0.0400	105	0.0505		0.0500	101	0.0502		0.0500	100
Magnesium	4.09		4.00	102	4.96		5.00	99	4.83		5.00	97
Manganese	0.0405		0.0400	101	0.0506		0.0500	101	0.0503		0.0500	101
Nickel	0.0404		0.0400	101	0.0523		0.0500	105	0.0516		0.0500	103
Potassium	ND		4.00	103	ND		5.00	100	ND		5.00	97
Selenium	0.0391		0.0400	98	0.0502		0.0500	100	0.0505		0.0500	101
Silver	0.0414		0.0400	104	0.0497		0.0500	99	0.0502		0.0500	100
Sodium	ND		4.00	102	ND		5.00	97	ND		5.00	95
Thallium	0.0421		0.0400	105	0.0503		0.0500	101	0.0503		0.0500	101
Vanadium	0.0394		0.0400	99	0.0501		0.0500	100	0.0494		0.0500	99
Zinc	0.0407		0.0400	102	0.0511		0.0500	102	0.0505		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.: 580-19403-1

SDG No.:

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

CCV Source: ICP-MS CCV_00004

Analyte	CCV 580-64859/67 06/02/2010 20:34				CCV 580-64859/77 06/02/2010 21:53							
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Aluminum	0.464		0.500	93	0.466		0.500	93				
Antimony	0.0490		0.0500	98	0.0498		0.0500	100				
Arsenic	0.0496		0.0500	99	0.0497		0.0500	99				
Barium	0.0496		0.0500	99	0.0499		0.0500	100				
Beryllium	0.0488		0.0500	98	0.0489		0.0500	98				
Cadmium	0.0492		0.0500	98	0.0499		0.0500	100				
Calcium	ND		5.00	96	ND		5.00	93				
Chromium	0.0510		0.0500	102	0.0517		0.0500	103				
Cobalt	0.0512		0.0500	102	0.0520		0.0500	104				
Copper	0.0519		0.0500	104	0.0524		0.0500	105				
Iron	5.16		5.00	103	5.20		5.00	104				
Lead	0.0506		0.0500	101	0.0496		0.0500	99				
Magnesium	4.78		5.00	96	4.75		5.00	95				
Manganese	0.0502		0.0500	100	0.0508		0.0500	102				
Nickel	0.0509		0.0500	102	0.0528		0.0500	106				
Potassium	ND		5.00	97	ND		5.00	97				
Selenium	0.0509		0.0500	102	0.0518		0.0500	104				
Silver	0.0495		0.0500	99	0.0501		0.0500	100				
Sodium	ND		5.00	94	ND		5.00	95				
Thallium	0.0501		0.0500	100	0.0490		0.0500	98				
Vanadium	0.0496		0.0500	99	0.0503		0.0500	101				
Zinc	0.0504		0.0500	101	0.0501		0.0500	100				

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.: 580-19403-1

SDG No.:

ICV Source: Hg_CAL_WORK_00002 Concentration Units: mg/L

CCV Source: Hg_CAL_WORK_00002

Analyte	ICV 580-64443/19 05/26/2010 09:07				CCV 580-64443/21 05/26/2010 12:26				CCV 580-64443/33 05/26/2010 13:22			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00398		0.00400	100	0.00533		0.00500	107	0.00518		0.00500	104

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.: 580-19403-1

SDG No.:

ICV Source: Hg_CAL_WORK_00002 Concentration Units: mg/L

CCV Source: Hg_CAL_WORK_00002

Analyte	CCV 580-64443/41 05/26/2010 13:57				CCV 580-64443/51 05/26/2010 14:51				CCV 580-64443/55 05/26/2010 15:09			
	Found	C	True	%R	Found	C	True	%R	Found	C	True	%R
Mercury	0.00522		0.00500	104	0.00527		0.00500	105	0.00518		0.00500	104

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.: 580-19403-1

SDG No.:

Analysis Method: 6020 Instrument ID: SEA044

Lab Sample ID: CRI 580-64208/9 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	0.00202		101	50-150
Antimony	0.00200	0.00207		104	50-150
Barium	0.00200	0.00196		98	50-150
Beryllium	0.00200	0.00206		103	50-150
Cadmium	0.00200	0.00205		103	50-150
Chromium	0.00200	0.00194		97	50-150
Lead	0.00200	0.00208		104	50-150
Cobalt	0.00200	0.00198		99	50-150
Copper	0.00200	0.00202		101	50-150
Iron	0.200	0.208		104	50-150
Manganese	0.00200	0.00198		99	50-150
Nickel	0.00200	0.00197		98	50-150
Selenium	0.00200	0.00203		101	50-150
Silver	0.00200	0.00208		104	50-150
Thallium	0.00200	0.00208		104	50-150
Vanadium	0.00200	0.00186		93	50-150
Zinc	0.00200	0.00198		99	50-150
Aluminum	0.0200	ND		100	50-150
Magnesium	0.200	ND		100	50-150
Potassium	0.200	ND		99	50-150
Sodium	0.200	ND		86	50-150
Calcium	0.200	ND		107	50-150

Lab Sample ID: CRI 580-64859/9 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	0.00199		100	50-150
Antimony	0.00200	0.00199		99	50-150
Barium	0.00200	0.00194		97	50-150
Beryllium	0.00200	0.00202		101	50-150
Cadmium	0.00200	0.00198		99	50-150
Chromium	0.00200	0.00206		103	50-150
Lead	0.00200	0.00203		102	50-150
Cobalt	0.00200	0.00207		104	50-150

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

FORM IIB-IN

2B-IN
CRQL CHECK STANDARD
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

Analysis Method: 6020 Instrument ID: SEA044

Lab Sample ID: CRI 580-64859/9 Concentration Units: mg/L

CRQL Check Standard Source: ICP-MS CCV_00004

Analyte	CRQL Check Standard				
	True	Found	Qualifiers	%R(1)	Limits
Copper	0.00200	0.00207		104	50-150
Iron	0.200	0.214		107	50-150
Manganese	0.00200	0.00206		103	50-150
Nickel	0.00200	0.00207		103	50-150
Selenium	0.00200	0.00184		92	50-150
Silver	0.00200	0.00201		100	50-150
Thallium	0.00200	0.00202		101	50-150
Vanadium	0.00200	0.00196		98	50-150
Zinc	0.00200	0.00195		97	50-150
Aluminum	0.0200	ND		96	50-150
Magnesium	0.200	ND		106	50-150
Potassium	0.200	ND		99	50-150
Sodium	0.200	ND		104	50-150
Calcium	0.200	ND		110	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.: 580-19403-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 580-64208/8 05/24/2010 09:17		CCB 580-64208/13 05/24/2010 10:06		CCB 580-64208/20 05/24/2010 10:49		CCB 580-64208/31 05/24/2010 11:56	
		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	
Beryllium	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	
Copper	0.0010	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	
Nickel	0.00040	ND		ND		ND		ND	
Potassium	10	ND		ND		ND		ND	
Selenium	0.00040	ND		ND		ND		ND	
Silver	0.00040	ND		ND		ND		ND	
Sodium	10	ND		ND		ND		ND	
Thallium	0.00040	ND		ND		0.000475		ND	
Vanadium	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.: 580-19403-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 580-64208/43 05/24/2010 13:10							
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.080	ND							
Antimony	0.00040	ND							
Arsenic	0.00040	ND							
Barium	0.00040	ND							
Beryllium	0.00040	ND							
Cadmium	0.00040	ND							
Calcium	10	ND							
Chromium	0.00040	ND							
Cobalt	0.00040	ND							
Copper	0.0010	ND							
Iron	0.010	ND							
Lead	0.00040	ND							
Magnesium	0.80	ND							
Manganese	0.00040	ND							
Nickel	0.00040	ND							
Potassium	10	ND							
Selenium	0.00040	ND							
Silver	0.00040	ND							
Sodium	10	ND							
Thallium	0.00040	ND							
Vanadium	0.00040	ND							
Zinc	0.0010	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 580-64859/8 06/02/2010 12:43		CCB 580-64859/45 06/02/2010 17:50		CCB 580-64859/57 06/02/2010 19:16		CCB 580-64859/68 06/02/2010 20:41	
		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	
Beryllium	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	
Copper	0.0010	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	
Nickel	0.00040	ND		ND		ND		ND	
Potassium	10	ND		ND		ND		ND	
Selenium	0.00040	ND		ND		ND		ND	
Silver	0.00040	ND		ND		ND		ND	
Sodium	10	ND		ND		ND		ND	
Thallium	0.00040	ND		ND		ND		ND	
Vanadium	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.: 580-19403-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 580-64859/78 06/02/2010 22:00							
		Found	C	Found	C	Found	C	Found	C
Aluminum	0.080	ND							
Antimony	0.00040	ND							
Arsenic	0.00040	ND							
Barium	0.00040	ND							
Beryllium	0.00040	ND							
Cadmium	0.00040	ND							
Calcium	10	ND							
Chromium	0.00040	ND							
Cobalt	0.00040	ND							
Copper	0.0010	ND							
Iron	0.010	ND							
Lead	0.00040	ND							
Magnesium	0.80	ND							
Manganese	0.00040	ND							
Nickel	0.00040	ND							
Potassium	10	ND							
Selenium	0.00040	ND							
Silver	0.00040	ND							
Sodium	10	ND							
Thallium	0.00040	ND							
Vanadium	0.00040	ND							
Zinc	0.0010	ND							

Italicized analytes were not requested for this sequence.

3-IN
INSTRUMENT BLANKS
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	ICB 580-64443/20 05/26/2010 09:12		CCB 580-64443/22 05/26/2010 12:30		CCB 580-64443/34 05/26/2010 13:26		CCB 580-64443/42 05/26/2010 14:01	
		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.: 580-19403-1

SDG No.:

Concentration Units: mg/L

Analyte	RL	CCB 580-64443/52 05/26/2010 14:56		CCB 580-64443/56 05/26/2010 15:18					
		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 - TOTAL RECOVERABLE

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 580-64088/19-A

Instrument Code: SEA044 Batch No.: 64208

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
7440-41-7	Beryllium	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
7440-50-8	Copper	ND		^	6020
7439-89-6	Iron	ND			6020
7439-96-5	Manganese	ND		^	6020
7440-02-0	Nickel	ND		^	6020
7782-49-2	Selenium	ND			6020
7440-22-4	Silver	ND			6020
7440-28-0	Thallium	ND			6020
7440-62-2	Vanadium	ND			6020
7440-66-6	Zinc	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 - DISSOLVED

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

Concentration Units: mg/L Lab Sample ID: MB 580-63971/1-B

Instrument Code: SEA044 Batch No.: 64208

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
7440-41-7	Beryllium	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
7440-50-8	Copper	ND		^	6020
7439-89-6	Iron	ND			6020
7439-96-5	Manganese	ND		^	6020
7440-02-0	Nickel	ND		^	6020
7782-49-2	Selenium	ND			6020
7440-22-4	Silver	ND			6020
7440-28-0	Thallium	ND			6020
7440-62-2	Vanadium	ND			6020
7440-66-6	Zinc	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.: 580-19403-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64624/21-A

Instrument Code: SEA044 Batch No.: 64859

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
7440-41-7	Beryllium	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
7440-50-8	Copper	ND		^	6020
7439-89-6	Iron	ND			6020
7439-96-5	Manganese	ND		^	6020
7440-02-0	Nickel	ND		^	6020
7782-49-2	Selenium	ND			6020
7440-22-4	Silver	ND			6020
7440-28-0	Thallium	ND			6020
7440-62-2	Vanadium	ND			6020
7440-66-6	Zinc	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.: 580-19403-1

SDG No.:

Concentration Units: mg/Kg Lab Sample ID: MB 580-64211/23-A

Instrument Code: SEA029 Batch No.: 64443

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.: 580-19403-1

SDG No.:

Lab Sample ID: ICSA 580-64208/10 Instrument ID: SEA044

Lab File ID: 021SMPL.D ICS Source: ICPMS- ICSA_00001

Concentration Units: mg/L

Analyte	True Solution A	Found Solution A	Percent Recovery
Aluminum	**100**	**109**	**109**
Antimony		**0.0006**	
Arsenic		**0.0005**	
Barium		**0.0005**	
Beryllium		**0.0000**	
Cadmium		**0.0001**	
Calcium	**300**	**300**	**100**
Chromium		**0.0013**	
Cobalt		**0.0040**	
Copper		**0.0041**	
Iron	**250**	**230**	**92**
Lead		**0.0003**	
Magnesium	**100**	**109**	**109**
Manganese		**0.0063**	
Nickel		**0.0030**	
Potassium	**100**	**112**	**112**
Selenium		**0.0000**	
Silver		**0.0002**	
Sodium	**250**	**283**	**113**
Thallium		**0.0001**	
Vanadium		**0.0001**	
Zinc		**0.0036**	
Mercury		*0.0000*	
Molybdenum	*2.00*	*2.14*	*107*
Phosphorus	*100*	*119*	*119*
Strontium		*0.0179*	
Tin		*0.0001*	
Titanium	*2.00*	*2.28*	*114*
Uranium		*0.0000*	

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.: 580-19403-1

SDG No.:

Lab Sample ID: ICSAB 580-64208/11 Instrument ID: SEA044

Lab File ID: 022SMPL.D ICS Source: ICPMS- ICSA_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**100**	**110**	**110**
Antimony		**0.0007**	
Arsenic	**0.100**	**0.116**	**116**
Barium		**0.0005**	
Beryllium		**0.0000**	
Cadmium	**0.100**	**0.103**	**103**
Calcium	**300**	**298**	**99**
Chromium	**0.200**	**0.220**	**110**
Cobalt	**0.200**	**0.222**	**111**
Copper	**0.200**	**0.211**	**105**
Iron	**250**	**230**	**92**
Lead		**0.0003**	
Magnesium	**100**	**109**	**109**
Manganese	**0.200**	**0.223**	**112**
Nickel	**0.200**	**0.212**	**106**
Potassium	**100**	**111**	**111**
Selenium	**0.100**	**0.102**	**102**
Silver	**0.0500**	**0.0503**	**101**
Sodium	**250**	**283**	**113**
Thallium		**0.0001**	
Vanadium	**0.200**	**0.225**	**113**
Zinc	**0.100**	**0.106**	**106**
Mercury		*0.0000*	
Molybdenum	*2.00*	*2.14*	*107*
Phosphorus	*100*	*118*	*118*
Strontium		*0.0178*	
Tin		*0.0001*	
Titanium	*2.00*	*2.20*	*110*
Uranium		*0.0000*	

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.: 580-19403-1

SDG No.:

Lab Sample ID: ICSAB 580-64208/11 Instrument ID: SEA044

Lab File ID: 022SMPL.D ICS Source: ICPMS-ICSB_00001

Concentration Units: mg/L

Analyte	True Solution AB	Found Solution AB	Percent Recovery
Aluminum	**100**	**110**	**110**
Antimony		**0.0007**	
Arsenic	**0.100**	**0.116**	**116**
Barium		**0.0005**	
Beryllium		**0.0000**	
Cadmium	**0.100**	**0.103**	**103**
Calcium	**300**	**298**	**99**
Chromium	**0.200**	**0.220**	**110**
Cobalt	**0.200**	**0.222**	**111**
Copper	**0.200**	**0.211**	**105**
Iron	**250**	**230**	**92**
Lead		**0.0003**	
Magnesium	**100**	**109**	**109**
Manganese	**0.200**	**0.223**	**112**
Nickel	**0.200**	**0.212**	**106**
Potassium	**100**	**111**	**111**
Selenium	**0.100**	**0.102**	**102**
Silver	**0.0500**	**0.0503**	**101**
Sodium	**250**	**283**	**113**
Thallium		**0.0001**	
Vanadium	**0.200**	**0.225**	**113**
Zinc	**0.100**	**0.106**	**106**
Mercury		*0.0000*	
Molybdenum	*2.00*	*2.14*	*107*
Phosphorus	*100*	*118*	*118*
Strontium		*0.0178*	
Tin		*0.0001*	
Titanium	*2.00*	*2.20*	*110*
Uranium		*0.0000*	

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.: 580-19403-1

SDG No.:

Lab Sample ID: ICSA 580-64859/10 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**	**91.9**	**92**
Antimony		**0.0006**	
Arsenic		**0.0004**	
Barium		**0.0003**	
Beryllium		**0.0000**	
Cadmium		**0.0002**	
Calcium	**300**	**300**	**100**
Chromium		**0.0010**	
Cobalt		**0.0035**	
Copper		**0.0036**	
Iron	**250**	**234**	**94**
Lead		**0.0003**	
Magnesium	**100**	**94.6**	**95**
Manganese		**0.0055**	
Nickel		**0.0026**	
Potassium	**100**	**94.4**	**94**
Selenium		**0.0001**	
Silver		**0.0002**	
Sodium	**250**	**241**	**96**
Thallium		**0.0001**	
Vanadium		**0.0001**	
Zinc		**0.0031**	
Mercury		*0.0000*	
Molybdenum	*2.00*	*1.96*	*98*
Phosphorus	*100*	*99.6*	*100*
Strontium		*0.0164*	
Tin		*0.0001*	
Titanium	*2.00*	*1.93*	*96*
Uranium		*0.0000*	

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.: 580-19403-1

SDG No.:

Lab Sample ID: ICSAB 580-64859/11 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**	**94.1**	**94**
Antimony		**0.0007**	
Arsenic	**0.100**	**0.106**	**106**
Barium		**0.0003**	
Beryllium		**0.0000**	
Cadmium	**0.100**	**0.103**	**103**
Calcium	**300**	**302**	**101**
Chromium	**0.200**	**0.198**	**99**
Cobalt	**0.200**	**0.198**	**99**
Copper	**0.200**	**0.187**	**94**
Iron	**250**	**234**	**94**
Lead		**0.0003**	
Magnesium	**100**	**96.9**	**97**
Manganese	**0.200**	**0.197**	**98**
Nickel	**0.200**	**0.194**	**97**
Potassium	**100**	**96.4**	**96**
Selenium	**0.100**	**0.101**	**101**
Silver	**0.0500**	**0.0503**	**101**
Sodium	**250**	**250**	**100**
Thallium		**0.0000**	
Vanadium	**0.200**	**0.202**	**101**
Zinc	**0.100**	**0.0953**	**95**
Mercury		*0.0000*	
Molybdenum	*2.00*	*2.02*	*101*
Phosphorus	*100*	*101*	*101*
Strontium		*0.0169*	
Tin		*0.0001*	
Titanium	*2.00*	*1.93*	*96*
Uranium		*0.0000*	

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.: 580-19403-1

SDG No.:

Lab Sample ID: ICSAB 580-64859/11 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**	**94.1**	**94**
Antimony		**0.0007**	
Arsenic	**0.100**	**0.106**	**106**
Barium		**0.0003**	
Beryllium		**0.0000**	
Cadmium	**0.100**	**0.103**	**103**
Calcium	**300**	**302**	**101**
Chromium	**0.200**	**0.198**	**99**
Cobalt	**0.200**	**0.198**	**99**
Copper	**0.200**	**0.187**	**94**
Iron	**250**	**234**	**94**
Lead		**0.0003**	
Magnesium	**100**	**96.9**	**97**
Manganese	**0.200**	**0.197**	**98**
Nickel	**0.200**	**0.194**	**97**
Potassium	**100**	**96.4**	**96**
Selenium	**0.100**	**0.101**	**101**
Silver	**0.0500**	**0.0503**	**101**
Sodium	**250**	**250**	**100**
Thallium		**0.0000**	
Vanadium	**0.200**	**0.202**	**101**
Zinc	**0.100**	**0.0953**	**95**
Mercury		*0.0000*	
Molybdenum	*2.00*	*2.02*	*101*
Phosphorus	*100*	*101*	*101*
Strontium		*0.0169*	
Tin		*0.0001*	
Titanium	*2.00*	*1.93*	*96*
Uranium		*0.0000*	

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

FORM IVA-IN

5A-IN
MATRIX SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: 09HMMW MS
Lab ID: 580-19403-1 MS
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG No.:
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	3.62		ND		4.00	90	75-125	^	6020
Antimony	2.90		ND		3.00	97	75-125	^	6020
Barium	4.04		ND		4.00	101	75-125	^	6020
Beryllium	0.0972		ND		0.100	97	75-125		6020
Cadmium	0.102		ND		0.100	102	75-125		6020
Chromium	0.393		0.014		0.400	95	75-125	^	6020
Lead	1.02		ND		1.00	102	75-125		6020
Cobalt	0.968		ND		1.00	97	75-125	^	6020
Copper	0.485		ND		0.500	97	75-125	^	6020
Iron	22.4		ND		22.0	102	75-125		6020
Manganese	0.989		0.0022		1.00	99	75-125	^	6020
Nickel	0.962		0.0034		1.00	96	75-125	^	6020
Selenium	3.83		ND		4.00	96	75-125		6020
Silver	0.610		ND		0.600	102	75-125		6020
Thallium	4.00		ND		4.00	100	75-125		6020
Vanadium	0.956		0.0051		1.00	95	75-125		6020
Zinc	0.970		ND		1.00	97	75-125	^	6020
Aluminum	4.06		ND		4.00	100	75-125		6020
Magnesium	70.6		52		20.0	92	75-125		6020

SSR = Spiked Sample Result

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

FORM VA - IN

5A-IN
MATRIX SPIKE DUPLICATE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: 09HMMW MSD
Lab ID: 580-19403-1 MSD
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG No.:
Matrix: Water
Concentration Units: mg/L
% Solids:

Analyte	(SDR)	C	Spike Added (SA)	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	3.65		4.00	91	75-125	1	20	^	6020
Antimony	2.89		3.00	96	75-125	0	20	^	6020
Barium	3.96		4.00	99	75-125	2	20	^	6020
Beryllium	0.0969		0.100	97	75-125	0	20		6020
Cadmium	0.104		0.100	104	75-125	2	20		6020
Chromium	0.399		0.400	96	75-125	1	20	^	6020
Lead	1.00		1.00	100	75-125	1	20		6020
Cobalt	0.980		1.00	98	75-125	1	20	^	6020
Copper	0.482		0.500	96	75-125	1	20	^	6020
Iron	22.6		22.0	102	75-125	1	20		6020
Manganese	0.992		1.00	99	75-125	0	20	^	6020
Nickel	0.968		1.00	96	75-125	1	20	^	6020
Selenium	3.83		4.00	96	75-125	0	20		6020
Silver	0.614		0.600	102	75-125	1	20		6020
Thallium	3.96		4.00	99	75-125	1	20		6020
Vanadium	0.949		1.00	94	75-125	1	20		6020
Zinc	0.979		1.00	98	75-125	1	20	^	6020
Aluminum	4.48		4.00	111	75-125	10	20		6020
Magnesium	70.0		20.0	89	75-125	1	20		6020

SDR = Sample Duplicate Result

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

FORM VD - IN

5B-IN
POST DIGESTION SPIKE SAMPLE RECOVERY
METALS - DISSOLVED

Client ID: 09HMMW PDS
Lab ID: 580-19403-1 PDS
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG No.:
Matrix: Water
Concentration Units: mg/L

Analyte	SSR	C	Sample Result (SR)	C	Spike Added (SA)	%R	Control Limit %R	Q	Method
Arsenic	3.79		ND		4.00	95	75-125	^	6020
Antimony	3.01		ND		3.00	100	75-125	^	6020
Barium	4.11		ND		4.00	103	75-125	^	6020
Beryllium	0.0999		ND		0.100	100	75-125		6020
Cadmium	0.101		ND		0.100	101	75-125		6020
Chromium	0.409		0.014		0.400	99	75-125	^	6020
Lead	1.02		ND		1.00	102	75-125		6020
Cobalt	1.01		ND		1.00	101	75-125	^	6020
Copper	0.507		ND		0.500	101	75-125	^	6020
Iron	23.7		ND		22.0	108	75-125		6020
Manganese	1.02		0.0022		1.00	102	75-125	^	6020
Nickel	0.997		0.0034		1.00	99	75-125	^	6020
Selenium	3.94		ND		4.00	98	75-125		6020
Silver	0.639		ND		0.600	106	75-125		6020
Thallium	4.05		ND		4.00	101	75-125		6020
Vanadium	0.973		0.0051		1.00	97	75-125		6020
Zinc	0.995		ND		1.00	99	75-125	^	6020
Aluminum	4.18		ND		4.00	103	75-125		6020
Magnesium	71.9		52		20.0	98	75-125		6020

SSR = Spiked Sample Result

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

FORM VB - IN

6-IN
DUPLICATES
METALS - DISSOLVED

Client ID: 09HMMW DU
Lab ID: 580-19403-1 DU
Lab Name: TestAmerica Tacoma
Job No.: 580-19403-1
SDG No.:
% Solids for Sample:
% Solids for Duplicate:
Matrix: Water
Concentration Units: mg/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Arsenic	0.0020	ND		ND		30	^	6020
Antimony	0.0020	ND		ND		NC	^	6020
Barium	0.0060	ND		ND		8	^	6020
Beryllium	0.0020	ND		ND		NC		6020
Cadmium	0.0020	ND		ND		NC		6020
Chromium	0.0020	0.014		0.0141		2	^	6020
Lead	0.0020	ND		ND		8		6020
Cobalt	0.0020	ND		ND		3	^	6020
Copper	0.0050	ND		ND		7	^	6020
Iron	0.20	ND		ND		0		6020
Manganese	0.0020	0.0022		0.00222		1	^	6020
Nickel	0.0020	0.0034		0.00397		17	^	6020
Selenium	0.0020	ND		ND		NC		6020
Silver	0.0020	ND		ND		NC		6020
Thallium	0.0040	ND		ND		36		6020
Vanadium	0.0020	0.0051		0.00652		25		6020
Zinc	0.0070	ND		ND		NC	^	6020
Aluminum	0.40	ND		ND		50		6020
Magnesium	4.0	52		52.7		1		6020
Potassium	50	ND		ND		NC		6020
Sodium	50	ND		ND		NC		6020
Calcium	50	ND		ND		NC		6020

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

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
METALS - TOTAL RECOVERABLE

Lab ID: LCS 580-64088/20-A

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

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

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	4.00	3.74		94	80	120	^	6020
Antimony	3.00	2.97		99	80	120	^	6020
Barium	4.00	4.08		102	80	120	^	6020
Beryllium	0.100	0.101		101	80	120		6020
Cadmium	0.100	0.104		104	80	120		6020
Chromium	0.400	0.366		92	80	120	^	6020
Lead	1.00	1.01		101	80	120		6020
Cobalt	1.00	0.950		95	80	120	^	6020
Copper	0.500	0.482		96	80	120	^	6020
Iron	22.0	22.5		102	80	120		6020
Manganese	1.00	0.947		95	80	120	^	6020
Nickel	1.00	0.932		93	80	120	^	6020
Selenium	4.00	3.92		98	80	120		6020
Silver	0.600	0.612		102	80	120		6020
Thallium	4.00	3.89		97	80	120		6020
Vanadium	1.00	0.936		94	80	120		6020
Zinc	1.00	0.926		93	80	120	^	6020
Aluminum	4.00	ND		93	80	120		6020
Magnesium	20.0	ND		97	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 - TOTAL RECOVERABLE

Lab ID: LCSD 580-64088/21-A

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

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

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	3.78		4.00	95	80-120	1	20	^	6020
Antimony	2.95		3.00	98	80-120	1	20	^	6020
Barium	4.14		4.00	104	80-120	1	20	^	6020
Beryllium	0.100		0.100	100	80-120	1	20		6020
Cadmium	0.104		0.100	104	80-120	0	20		6020
Chromium	0.381		0.400	95	80-120	4	20	^	6020
Lead	0.999		1.00	100	80-120	1	20		6020
Cobalt	0.951		1.00	95	80-120	0	20	^	6020
Copper	0.486		0.500	97	80-120	1	20	^	6020
Iron	22.3		22.0	101	80-120	1	20		6020
Manganese	0.963		1.00	96	80-120	2	20	^	6020
Nickel	0.940		1.00	94	80-120	1	20	^	6020
Selenium	3.93		4.00	98	80-120	0	20		6020
Silver	0.614		0.600	102	80-120	0	20		6020
Thallium	3.92		4.00	98	80-120	1	20		6020
Vanadium	0.944		1.00	94	80-120	1	20		6020
Zinc	0.954		1.00	95	80-120	3	20	^	6020
Aluminum	ND		4.00	94	80-120	1	20		6020
Magnesium	ND		20.0	99	80-120	2	20		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 - TOTAL RECOVERABLE

Lab ID: LCSSRM 580-64088/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

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

Analyte	Water(mg/L)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	4.00	3.78		94	80	120	^	6020
Antimony	3.00	2.96		99	80	120	^	6020
Barium	4.00	4.10		103	80	120	^	6020
Beryllium	0.100	0.0993		99	80	120		6020
Cadmium	0.100	0.0968		97	80	120		6020
Chromium	0.400	0.375		94	80	120	^	6020
Lead	1.00	1.01		101	80	120		6020
Cobalt	1.00	0.966		97	80	120	^	6020
Copper	0.500	0.484		97	80	120	^	6020
Iron	22.0	22.1		100	80	120		6020
Manganese	1.00	0.964		96	80	120	^	6020
Nickel	1.00	0.936		94	80	120	^	6020
Selenium	4.00	3.96		99	80	120		6020
Silver	0.600	0.618		103	80	120		6020
Thallium	4.00	3.90		97	80	120		6020
Vanadium	1.00	0.939		94	80	120		6020
Zinc	1.00	0.970		97	80	120	^	6020
Aluminum	4.00	ND		94	80	120		6020
Magnesium	20.0	ND		99	80	120		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 580-64624/22-A

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

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

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	200	197		98	80	120	^	6020
Antimony	150	143		95	80	120	^	6020
Barium	200	197		99	80	120		6020
Beryllium	5.00	4.88		98	80	120		6020
Cadmium	5.00	4.82		96	80	120		6020
Chromium	20.0	20.3		102	80	120	^	6020
Lead	50.0	49.6		99	80	120		6020
Cobalt	50.0	52.0		104	80	120	^	6020
Copper	25.0	26.9		107	80	120	^	6020
Iron	1100	1140		104	80	120		6020
Manganese	50.0	50.2		100	80	120	^	6020
Nickel	50.0	52.8		106	80	120	^	6020
Selenium	200	198		99	80	120		6020
Silver	30.0	30.2		101	80	120		6020
Thallium	200	192		96	80	120		6020
Vanadium	50.0	48.8		98	80	120		6020
Zinc	50.0	52.2		104	80	120	^	6020
Aluminum	200	186		93	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 580-64624/23-A

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

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

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Arsenic	197		200	98	80-120	0	35	^	6020
Antimony	140		150	94	80-120	2	35	^	6020
Barium	192		200	96	80-120	2	35		6020
Beryllium	4.90		5.00	98	80-120	0	35		6020
Cadmium	4.69		5.00	94	80-120	3	35		6020
Chromium	20.2		20.0	101	80-120	1	35	^	6020
Lead	49.4		50.0	99	80-120	0	35		6020
Cobalt	51.7		50.0	103	80-120	1	35	^	6020
Copper	26.9		25.0	108	80-120	0	35	^	6020
Iron	1110		1100	101	80-120	2	35		6020
Manganese	50.2		50.0	100	80-120	0	35	^	6020
Nickel	52.0		50.0	104	80-120	2	35	^	6020
Selenium	196		200	98	80-120	1	35		6020
Silver	29.5		30.0	98	80-120	2	35		6020
Thallium	193		200	96	80-120	1	35		6020
Vanadium	49.6		50.0	99	80-120	2	35		6020
Zinc	51.6		50.0	103	80-120	1	35	^	6020
Aluminum	189		200	94	80-120	1	35		6020
Magnesium	1000		1000	100	80-120	4	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 580-64624/24-A

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Arsenic	225	264		117	71.1	128.9	^	6020
Antimony	126	165		131	21.0	251.6	^	6020
Barium	565	649		115	74.7	125.5		6020
Beryllium	162	188		116	75.3	124.7		6020
Cadmium	69.1	79.3		115	73.2	126.8		6020
Chromium	124	146		118	69.9	129.8	^	6020
Lead	223	252		113	75.3	125.1		6020
Cobalt	115	142		124	74.5	126.1	^	6020
Copper	66.7	81.1		122	73.2	126.8	^	6020
Iron	17600	20900		119	41.6	159.1		6020
Manganese	368	422		115	75.8	124.5	^	6020
Nickel	172	211		122	73.8	126.7	^	6020
Selenium	147	172		117	67.1	132.7		6020
Silver	35.2	41.7		118	65.6	134.4		6020
Thallium	173	203		117	68.8	131.2		6020
Vanadium	93.9	113		120	64.5	135.3		6020
Zinc	349	421		121	72.2	127.8	^	6020
Aluminum	10600	11400		108	46.0	153.8		6020
Magnesium	4260	4780		112	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 580-64211/24-A

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

Sample Matrix: Solid LCS Source: Hg_SPK_WORK_00002

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	0.200	0.216		108	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 580-64211/25-A

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

Sample Matrix: Solid LCS Source: Hg_SPK_WORK_00002

Analyte	(SDR)	C	Spike Added	%R	Control Limit %R	RPD	RPD Limit	Q	Method
Mercury	0.214		0.200	107	75-125	1	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 580-64211/26-A

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

Sample Matrix: Solid LCS Source: SRMsolid_00004

Analyte	Solid(mg/Kg)							
	True	Found	C	%R	Limits		Q	Method
Mercury	5.15	5.41		105	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 - DISSOLVED

Lab ID: 580-19403-1

SDG No:

Lab Name: TestAmerica Tacoma Job No: 580-19403-1

Matrix: Water Concentration Units: mg/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	Method
Arsenic	ND		ND		NC	^	6020
Antimony	ND		ND		NC	^	6020
Barium	ND		ND		NC	^	6020
Beryllium	ND		ND		NC		6020
Cadmium	ND		ND		NC		6020
Chromium	0.014		0.0134		NC	^	6020
Lead	ND		ND		NC		6020
Cobalt	ND		ND		NC	^	6020
Copper	ND		ND		NC	^	6020
Iron	ND		ND		NC		6020
Manganese	0.0022		ND		NC	^	6020
Nickel	0.0034		ND		NC	^	6020
Selenium	ND		ND		NC		6020
Silver	ND		ND		NC		6020
Thallium	ND		ND		NC		6020
Vanadium	0.0051		ND		NC		6020
Zinc	ND		ND		NC	^	6020
Aluminum	ND		ND		NC		6020
Magnesium	52		54.8		5.0		6020
Potassium	ND		ND		NC		6020
Sodium	ND		ND		NC		6020
Calcium	ND		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: 580-19403-1

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 - DISSOLVED

Lab Name: TestAmerica Tacoma Job Number: 580-19403-1

SDG Number:

Matrix: Water Instrument ID: SEA044

Analysis Method: 6020 MDL Date: 10/02/2008 09:46

Prep Method: 3005A

Leach Method:

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Aluminum		0.08	0.00046
Antimony		0.0004	0.00008
Arsenic		0.0004	0.000048
Barium		0.0012	0.000054
Beryllium		0.0004	0.000052
Cadmium		0.0004	0.000028
Calcium		10	10
Chromium		0.0004	0.000074
Cobalt		0.0004	0.000032
Copper		0.001	0.00003
Iron		0.04	0.0058
Lead		0.0004	0.000034
Magnesium		0.8	0.0005
Manganese		0.0004	0.0000124
Nickel		0.0004	0.000044
Potassium		10	10
Selenium		0.0004	0.000068
Silver		0.0004	0.00003
Sodium		10	10
Thallium		0.0008	0.000012
Vanadium		0.0004	0.000046
Zinc		0.0014	0.0004

9-IN
DETECTION LIMITS
METALS

Lab Name: TestAmerica Tacoma Job Number: 580-19403-1

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: 580-19403-1

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: 580-19403-1

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.: 580-19403-1

SDG No.:

Preparation Method: 3005A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight	Initial Volume (mL)	Final Volume (mL)
580-19403-1	05/21/2010 12:18	64088		50	50
580-19403-1 DU	05/21/2010 12:18	64088		50	50
580-19403-1 MS	05/21/2010 12:18	64088		50	50
580-19403-1 MSD	05/21/2010 12:18	64088		50	50
580-19403-2	05/21/2010 12:18	64088		50	50
580-19403-3	05/21/2010 12:18	64088		50	50
580-19403-4	05/21/2010 12:18	64088		50	50
580-19403-9	05/21/2010 12:18	64088		50	50
580-19403-10	05/21/2010 12:18	64088		50	50
580-19403-11	05/21/2010 12:18	64088		50	50
580-19403-12	05/21/2010 12:18	64088		50	50
580-19403-13	05/21/2010 12:18	64088		50	50
580-19403-14	05/21/2010 12:18	64088		50	50
580-19403-15	05/21/2010 12:18	64088		50	50
580-19403-16	05/21/2010 12:18	64088		50	50
580-19403-17	05/21/2010 12:18	64088		50	50
MB 580-63971/1-B	05/21/2010 12:18	64088		50	50
MB 580-64088/19-A	05/21/2010 12:18	64088		50	50
LCS 580-64088/20-A	05/21/2010 12:18	64088		50	50
LCSD 580-64088/21-A	05/21/2010 12:18	64088		50	50
LCSSRM 580-64088/22-A	05/21/2010 12:18	64088		50	50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

Preparation Method: 3050B

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
580-19403-5	05/28/2010 13:49	64624	1.0694		50
580-19403-6	05/28/2010 13:49	64624	1.1235		50
580-19403-7	05/28/2010 13:49	64624	1.1869		50
580-19403-8	05/28/2010 13:49	64624	1.0042		50
580-19403-18	05/28/2010 13:49	64624	1.1039		50
580-19403-19	05/28/2010 13:49	64624	1.1125		50
580-19403-20	05/28/2010 13:49	64624	1.1017		50
580-19403-21	05/28/2010 13:49	64624	1.0355		50
580-19403-22	05/28/2010 13:49	64624	1.0721		50
580-19403-23	05/28/2010 13:49	64624	1.0136		50
580-19403-24	05/28/2010 13:49	64624	1.1777		50
580-19403-25	05/28/2010 13:49	64624	1.0387		50
580-19403-26	05/28/2010 13:49	64624	1.1105		50
MB 580-64624/21-A	05/28/2010 13:49	64624	1.0		50
LCS 580-64624/22-A	05/28/2010 13:49	64624	1.0		50
LCSD 580-64624/23-A	05/28/2010 13:49	64624	1.0		50
LCSSRM 580-64624/24-A	05/28/2010 13:49	64624	0.5171		50
580-19403-27	05/28/2010 14:34	64624	1.0684		50

FORM XII-IN

12-IN
PREPARATION LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

Preparation Method: 7471A

Lab Sample ID	Preparation Date	Prep Batch	Initial Weight (g)	Initial Volume	Final Volume (mL)
580-19403-18	05/24/2010 13:45	64211	0.8791		50
580-19403-19	05/24/2010 13:45	64211	0.5343		50
580-19403-20	05/24/2010 13:45	64211	0.6009		50
580-19403-22	05/24/2010 13:45	64211	0.5719		50
580-19403-23	05/24/2010 13:45	64211	0.6308		50
580-19403-24	05/24/2010 13:45	64211	0.5106		50
580-19403-25	05/24/2010 13:45	64211	0.5630		50
580-19403-26	05/24/2010 13:45	64211	0.6561		50
580-19403-27	05/24/2010 13:45	64211	0.5170		50
MB 580-64211/23-A	05/24/2010 13:45	64211	0.5		50
LCS 580-64211/24-A	05/24/2010 13:45	64211	0.5		50
LCSD 580-64211/25-A	05/24/2010 13:45	64211	0.5		50
LCSSRM 580-64211/26-A	05/24/2010 13:45	64211	0.0972		50

FORM XII-IN

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/24/2010 08:16 End Date: 05/24/2010 13:10

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
STD0 580-64208/1 IC			08:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD1 580-64208/2 IC			08:22	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 580-64208/3 IC			08:29	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD3 580-64208/4 IC			08:35	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD4 580-64208/5 IC			08:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD5 580-64208/6 IC			08:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 580-64208/7	1		09:11	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 580-64208/8	1		09:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 580-64208/9	1		09:30	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 580-64208/10	1		09:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 580-64208/11	1		09:42	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 580-64208/12	1		10:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 580-64208/13	1		10:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 580-63971/1-B	5	D	10:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 580-64088/19-A	5	R	10:18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCS 580-64088/20-A	50	R	10:25	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCSD 580-64088/21-A	50	R	10:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCSSRM 580-64088/22-A	50	R	10:37	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 580-64208/19	1		10:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 580-64208/20	1		10:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-1 SD	25	D	10:55	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-1	5	D	11:01	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-1 DU	5	D	11:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-1 MS	50	D	11:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-1 MSD	50	D	11:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-1 PDS	50	D	11:26	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-2	5	D	11:32	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-3	5	D	11:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-4	5	D	11:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 580-64208/30	1		11:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 580-64208/31	1		11:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-9	5	D	12:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-10	5	D	12:08	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-11	5	D	12:15	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-12	5	D	12:21	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-13	5	D	12:27	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-14	5	D	12:33	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-15	5	D	12:39	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-16	5	D	12:45	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-17	5	D	12:51	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			12:57																				
CCV 580-64208/42	1		13:04	X	X	X	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.: 580-19403-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/24/2010 08:16 End Date: 05/24/2010 13:10

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
CCB 580-64208/43	1		13:10	X	X	X	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.: 580-19403-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/24/2010 08:16 End Date: 05/24/2010 13:10

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
STD0 580-64208/1 IC			08:16	X	X																		
STD1 580-64208/2 IC			08:22	X	X																		
STD2 580-64208/3 IC			08:29	X	X																		
STD3 580-64208/4 IC			08:35	X	X																		
STD4 580-64208/5 IC			08:41	X	X																		
STD5 580-64208/6 IC			08:47	X	X																		
ICV 580-64208/7	1		09:11	X	X																		
ICB 580-64208/8	1		09:17	X	X																		
CRI 580-64208/9	1		09:30	X	X																		
ICSA 580-64208/10	1		09:36	X	X																		
ICSAB 580-64208/11	1		09:42	X	X																		
CCV 580-64208/12	1		10:00	X	X																		
CCB 580-64208/13	1		10:06	X	X																		
MB 580-63971/1-B	5	D	10:12	X	X																		
MB 580-64088/19-A	5	R	10:18	X	X																		
LCS 580-64088/20-A	50	R	10:25	X	X																		
LCSD 580-64088/21-A	50	R	10:31	X	X																		
LCSSRM 580-64088/22-A	50	R	10:37	X	X																		
CCV 580-64208/19	1		10:43	X	X																		
CCB 580-64208/20	1		10:49	X	X																		
580-19403-1 SD	25	D	10:55	X	X																		
580-19403-1	5	D	11:01	X	X																		
580-19403-1 DU	5	D	11:07	X	X																		
580-19403-1 MS	50	D	11:13	X	X																		
580-19403-1 MSD	50	D	11:20	X	X																		
580-19403-1 PDS	50	D	11:26	X	X																		
580-19403-2	5	D	11:32	X	X																		
580-19403-3	5	D	11:38	X	X																		
580-19403-4	5	D	11:44	X	X																		
CCV 580-64208/30	1		11:50	X	X																		
CCB 580-64208/31	1		11:56	X	X																		
580-19403-9	5	D	12:02	X	X																		
580-19403-10	5	D	12:08	X	X																		
580-19403-11	5	D	12:15	X	X																		
580-19403-12	5	D	12:21	X	X																		
580-19403-13	5	D	12:27	X	X																		
580-19403-14	5	D	12:33	X	X																		
580-19403-15	5	D	12:39	X	X																		
580-19403-16	5	D	12:45	X	X																		
580-19403-17	5	D	12:51	X	X																		
ZZZZZZ			12:57																				
CCV 580-64208/42	1		13:04	X	X																		

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 05/24/2010 08:16 End Date: 05/24/2010 13:10

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
CCB 580-64208/43	1		13:10	X	X																		

Prep Types

D = Dissolved

R = Total Recoverable

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 06/02/2010 11:31 End Date: 06/02/2010 22:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
STD0 580-64859/1 IC			11:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD1 580-64859/2 IC			11:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 580-64859/3 IC			11:46	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD3 580-64859/4 IC			11:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD4 580-64859/5 IC			12:00	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD5 580-64859/6 IC			12:07	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICV 580-64859/7	1		12:36	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICB 580-64859/8	1		12:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CRI 580-64859/9	1		12:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSA 580-64859/10	1		13:05	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB 580-64859/11	1		13:12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 580-64859/12			13:40																				
CCB 580-64859/13			13:47																				
ZZZZZZ			13:55																				
ZZZZZZ			14:02																				
ZZZZZZ			14:09																				
ZZZZZZ			14:16																				
ZZZZZZ			14:23																				
ZZZZZZ			14:30																				
ZZZZZZ			14:38																				
ZZZZZZ			14:45																				
ZZZZZZ			14:52																				
ZZZZZZ			14:59																				
CCV 580-64859/24			15:06																				
CCB 580-64859/25			15:13																				
ZZZZZZ			15:20																				
ZZZZZZ			15:28																				
ZZZZZZ			15:35																				
ZZZZZZ			15:42																				
ZZZZZZ			15:49																				
ZZZZZZ			15:56																				
ZZZZZZ			16:03																				
ZZZZZZ			16:10																				
ZZZZZZ			16:17																				
CCV 580-64859/35			16:32																				
CCB 580-64859/36			16:39																				
ZZZZZZ			16:46																				
ZZZZZZ			16:53																				
ZZZZZZ			17:00																				
ZZZZZZ			17:07																				
ZZZZZZ			17:14																				
ZZZZZZ			17:21																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 06/02/2010 11:31 End Date: 06/02/2010 22:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				Ag	Al	As	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Sb	Se	Tl
ZZZZZZ			17:28																				
CCV 580-64859/44	1		17:43	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 580-64859/45	1		17:50	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
MB 580-64624/21-A	10	T	17:57	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			18:04																				
ZZZZZZ			18:12																				
ZZZZZZ			18:19																				
ZZZZZZ			18:26																				
ZZZZZZ			18:33																				
ZZZZZZ			18:40																				
LCS 580-64624/22-A	50	T	18:47	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCSD 580-64624/23-A	50	T	18:54	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LCSSRM 580-64624/24-A	20	T	19:02	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 580-64859/56	1		19:09	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 580-64859/57	1		19:16	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ZZZZZZ			19:23																				
ZZZZZZ			19:30																				
ZZZZZZ			19:37																				
580-19403-5	10	T	19:44	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-6	10	T	19:52	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-7	10	T	19:59	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-8	10	T	20:06	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-18	10	T	20:13	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-19	10	T	20:20	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 580-64859/67	1		20:34	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 580-64859/68	1		20:41	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-20	10	T	20:49	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-21	10	T	20:56	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-22	10	T	21:03	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-23	10	T	21:10	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-24	10	T	21:17	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-25	10	T	21:24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-26	10	T	21:31	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
580-19403-27	10	T	21:38	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV 580-64859/77	1		21:53	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCB 580-64859/78	1		22:00	X	X	X	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.: 580-19403-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 06/02/2010 11:31 End Date: 06/02/2010 22:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
STD0 580-64859/1 IC			11:31	X	X																		
STD1 580-64859/2 IC			11:38	X	X																		
STD2 580-64859/3 IC			11:46	X	X																		
STD3 580-64859/4 IC			11:53	X	X																		
STD4 580-64859/5 IC			12:00	X	X																		
STD5 580-64859/6 IC			12:07	X	X																		
ICV 580-64859/7	1		12:36	X	X																		
ICB 580-64859/8	1		12:43	X	X																		
CRI 580-64859/9	1		12:57	X	X																		
ICSA 580-64859/10	1		13:05	X	X																		
ICSAB 580-64859/11	1		13:12	X	X																		
CCV 580-64859/12			13:40																				
CCB 580-64859/13			13:47																				
ZZZZZZ			13:55																				
ZZZZZZ			14:02																				
ZZZZZZ			14:09																				
ZZZZZZ			14:16																				
ZZZZZZ			14:23																				
ZZZZZZ			14:30																				
ZZZZZZ			14:38																				
ZZZZZZ			14:45																				
ZZZZZZ			14:52																				
ZZZZZZ			14:59																				
CCV 580-64859/24			15:06																				
CCB 580-64859/25			15:13																				
ZZZZZZ			15:20																				
ZZZZZZ			15:28																				
ZZZZZZ			15:35																				
ZZZZZZ			15:42																				
ZZZZZZ			15:49																				
ZZZZZZ			15:56																				
ZZZZZZ			16:03																				
ZZZZZZ			16:10																				
ZZZZZZ			16:17																				
CCV 580-64859/35			16:32																				
CCB 580-64859/36			16:39																				
ZZZZZZ			16:46																				
ZZZZZZ			16:53																				
ZZZZZZ			17:00																				
ZZZZZZ			17:07																				
ZZZZZZ			17:14																				
ZZZZZZ			17:21																				

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

Instrument ID: SEA044 Method: 6020

Start Date: 06/02/2010 11:31 End Date: 06/02/2010 22:00

Lab Sample ID	D/F	Type	Time	Analytes																			
				V	Zn																		
ZZZZZZ			17:28																				
CCV 580-64859/44	1		17:43	X	X																		
CCB 580-64859/45	1		17:50	X	X																		
MB 580-64624/21-A	10	T	17:57	X	X																		
ZZZZZZ			18:04																				
ZZZZZZ			18:12																				
ZZZZZZ			18:19																				
ZZZZZZ			18:26																				
ZZZZZZ			18:33																				
ZZZZZZ			18:40																				
LCS 580-64624/22-A	50	T	18:47	X	X																		
LCSD 580-64624/23-A	50	T	18:54	X	X																		
LCSSRM 580-64624/24-A	20	T	19:02	X	X																		
CCV 580-64859/56	1		19:09	X	X																		
CCB 580-64859/57	1		19:16	X	X																		
ZZZZZZ			19:23																				
ZZZZZZ			19:30																				
ZZZZZZ			19:37																				
580-19403-5	10	T	19:44	X	X																		
580-19403-6	10	T	19:52	X	X																		
580-19403-7	10	T	19:59	X	X																		
580-19403-8	10	T	20:06	X	X																		
580-19403-18	10	T	20:13	X	X																		
580-19403-19	10	T	20:20	X	X																		
CCV 580-64859/67	1		20:34	X	X																		
CCB 580-64859/68	1		20:41	X	X																		
580-19403-20	10	T	20:49	X	X																		
580-19403-21	10	T	20:56	X	X																		
580-19403-22	10	T	21:03	X	X																		
580-19403-23	10	T	21:10	X	X																		
580-19403-24	10	T	21:17	X	X																		
580-19403-25	10	T	21:24	X	X																		
580-19403-26	10	T	21:31	X	X																		
580-19403-27	10	T	21:38	X	X																		
CCV 580-64859/77	1		21:53	X	X																		
CCB 580-64859/78	1		22:00	X	X																		

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

Instrument ID: SEA029 Method: 7471A

Start Date: 05/26/2010 07:47 End Date: 05/26/2010 15:18

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
STD01REP1 580-64443/1 IC			07:47	X																			
STD01REP2 580-64443/2 IC			07:51	X																			
STD01REP3 580-64443/3 IC			07:56	X																			
STD02REP1 580-64443/4 IC			08:00	X																			
STD02REP2 580-64443/5 IC			08:05	X																			
STD02REP3 580-64443/6 IC			08:09	X																			
STD03REP1 580-64443/7 IC			08:13	X																			
STD03REP2 580-64443/8 IC			08:18	X																			
STD03REP3 580-64443/9 IC			08:22	X																			
STD04REP1 580-64443/10 IC			08:27	X																			
STD04REP2 580-64443/11 IC			08:31	X																			
STD04REP3 580-64443/12 IC			08:36	X																			
STD05REP1 580-64443/13 IC			08:40	X																			
STD05REP2 580-64443/14 IC			08:45	X																			
STD05REP3 580-64443/15 IC			08:49	X																			
STD06REP1 580-64443/16 IC			08:53	X																			
STD06REP2 580-64443/17 IC			08:58	X																			
STD06REP3 580-64443/18 IC			09:03	X																			
ICV 580-64443/19	1		09:07	X																			
ICB 580-64443/20	1		09:12	X																			
CCV 580-64443/21	1		12:26	X																			
CCB 580-64443/22	1		12:30	X																			
MB 580-64211/23-A	1	T	12:37	X																			
LCS 580-64211/24-A	1	T	12:41	X																			
LCSD 580-64211/25-A	1	T	12:46	X																			
LCSSRM 580-64211/26-A	2	T	12:50	X																			
ZZZZZZ			12:55																				
ZZZZZZ			12:59																				
ZZZZZZ			13:03																				
ZZZZZZ			13:08																				
ZZZZZZ			13:12																				
ZZZZZZ			13:18																				
CCV 580-64443/33	1		13:22	X																			
CCB 580-64443/34	1		13:26	X																			

13-IN
ANALYSIS RUN LOG
METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

Instrument ID: SEA029 Method: 7471A

Start Date: 05/26/2010 07:47 End Date: 05/26/2010 15:18

Lab Sample ID	D/F	Type	Time	Analytes																			
				Hg																			
ZZZZZZ			13:31																				
ZZZZZZ			13:35																				
ZZZZZZ			13:39																				
ZZZZZZ			13:43																				
ZZZZZZ			13:48																				
ZZZZZZ			13:52																				
CCV 580-64443/41	1		13:57	X																			
CCB 580-64443/42	1		14:01	X																			
580-19403-18	1000	T	14:06	X																			
580-19403-19	1000	T	14:11	X																			
580-19403-20	1000	T	14:15	X																			
580-19403-23	1000	T	14:29	X																			
580-19403-24	1000	T	14:34	X																			
580-19403-25	1000	T	14:38	X																			
580-19403-26	1000	T	14:42	X																			
580-19403-27	1000	T	14:47	X																			
CCV 580-64443/51	1		14:51	X																			
CCB 580-64443/52	1		14:56	X																			
ZZZZZZ			15:00																				
580-19403-22	100	T	15:05	X																			
CCV 580-64443/55	1		15:09	X																			
CCB 580-64443/56	1		15:18	X																			

Prep Types

T = Total/NA

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

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/24/2010 End Date: 05/24/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q
ICV 580-64208/7	09:11	102		101		101		105		102	
ICB 580-64208/8	09:17	101		102		103		107		105	
CRI 580-64208/9	09:30					104		108		105	
ICSA 580-64208/10	09:36	105		102		101		98		96	
ICSAB 580-64208/11	09:42	100		97		100		94		97	
CCV 580-64208/12	10:00	94		93		100		101		100	
CCB 580-64208/13	10:06	96		93		103		102		104	
MB 580-63971/1-B	10:12					104		103			
MB 580-64088/19-A	10:18					106		105			
LCS 580-64088/20-A	10:25					104		103			
LCSD 580-64088/21-A	10:31					103		104			
LCSSRM	10:37					104		104			
CCV 580-64208/19	10:43	97		95		105		107		107	
CCB 580-64208/20	10:49	97		95		105		107		107	
580-19403-1 SD	10:55					110		111		113	
580-19403-1	11:01					103		113			
580-19403-1 DU	11:07					102		112			
580-19403-1 MS	11:13					108		111			
580-19403-1 MSD	11:20					112		112			
580-19403-1 PDS	11:26					113		113		116	
580-19403-2	11:32					107		108			
580-19403-3	11:38					107		110			
580-19403-4	11:44					108		108			
CCV 580-64208/30	11:50	97		96		110		110		114	
CCB 580-64208/31	11:56	97		97		112		113		116	
580-19403-9	12:02					108		108			
580-19403-10	12:08					108		110			
580-19403-11	12:15					111		113			
580-19403-12	12:21					109		110			
580-19403-13	12:27					110		106			
580-19403-14	12:33					109		106			
580-19403-15	12:39					108		106			
580-19403-16	12:45					111		107			
580-19403-17	12:51					110		107			
CCV 580-64208/42	13:04	102		99		113		111		115	
CCB 580-64208/43	13:10	102		98		115		112		120	

FORM XV - IN

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

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/24/2010 End Date: 05/24/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Ge	Q	Element Ge	Q	Element Rh	Q	Element Rh	Q	Element Ho	Q
ICV 580-64208/7	09:11	103		103		101		101		102	
ICB 580-64208/8	09:17	107		104		105		105		103	
CRI 580-64208/9	09:30	107				106		105		104	
ICSA 580-64208/10	09:36	91		96		80		85		89	
ICSAB 580-64208/11	09:42	88		94		78		84		88	
CCV 580-64208/12	10:00	101		99		98		98		102	
CCB 580-64208/13	10:06	104		100		102		101		103	
MB 580-63971/1-B	10:12					103		102		104	
MB 580-64088/19-A	10:18					104		99		103	
LCS 580-64088/20-A	10:25					103		99		105	
LCSD 580-64088/21-A	10:31					102		100		105	
LCSSRM	10:37					102		100		107	
CCV 580-64208/19	10:43	107		102		102		102		106	
CCB 580-64208/20	10:49	107		102		106		105		107	
580-19403-1 SD	10:55	111				108		107		107	
580-19403-1	11:01					105		104		109	
580-19403-1 DU	11:07					104		104		108	
580-19403-1 MS	11:13					105		105		107	
580-19403-1 MSD	11:20					106		108		107	
580-19403-1 PDS	11:26	113				108		107		110	
580-19403-2	11:32					105		104		107	
580-19403-3	11:38					105		104		108	
580-19403-4	11:44					102		100		106	
CCV 580-64208/30	11:50	109		106		104		104		107	
CCB 580-64208/31	11:56	113		106		109		108		110	
580-19403-9	12:02					102		99		108	
580-19403-10	12:08					103		100		105	
580-19403-11	12:15					102		101		108	
580-19403-12	12:21					101		99		106	
580-19403-13	12:27					100		99		105	
580-19403-14	12:33					99		97		105	
580-19403-15	12:39					99		98		106	
580-19403-16	12:45					101		98		106	
580-19403-17	12:51					100		98		106	
CCV 580-64208/42	13:04	109		104		102		104		110	
CCB 580-64208/43	13:10	113		105		109		107		110	

FORM XV - IN

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

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 05/24/2010 End Date: 05/24/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Lu	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
ICV 580-64208/7	09:11	103		100							
ICB 580-64208/8	09:17	105		104							
CRI 580-64208/9	09:30	105									
ICSA 580-64208/10	09:36	91		79							
ICSAB 580-64208/11	09:42	90		79							
CCV 580-64208/12	10:00	104		102							
CCB 580-64208/13	10:06	106		105							
MB 580-63971/1-B	10:12	107									
MB 580-64088/19-A	10:18	106									
LCS 580-64088/20-A	10:25	107									
LCSD 580-64088/21-A	10:31	108									
LCSSRM	10:37	108									
CCV 580-64208/19	10:43	108		105							
CCB 580-64208/20	10:49	109		108							
580-19403-1 SD	10:55	112									
580-19403-1	11:01	111									
580-19403-1 DU	11:07	110									
580-19403-1 MS	11:13	109									
580-19403-1 MSD	11:20	108									
580-19403-1 PDS	11:26	111									
580-19403-2	11:32	110									
580-19403-3	11:38	110									
580-19403-4	11:44	109									
CCV 580-64208/30	11:50	109		106							
CCB 580-64208/31	11:56	112		112							
580-19403-9	12:02	109									
580-19403-10	12:08	109									
580-19403-11	12:15	110									
580-19403-12	12:21	108									
580-19403-13	12:27	108									
580-19403-14	12:33	109									
580-19403-15	12:39	110									
580-19403-16	12:45	109									
580-19403-17	12:51	108									
CCV 580-64208/42	13:04	110		107							
CCB 580-64208/43	13:10	114		113							

FORM XV - IN

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

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 06/02/2010 End Date: 06/02/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Li	Q	Element Li	Q	Element Sc	Q	Element Sc	Q	Element Ge	Q
ICV 580-64859/7	12:36	104		103		98		101		98	
ICB 580-64859/8	12:43	102		103		104		102		105	
CRI 580-64859/9	12:57			102		102		103		103	
ICSA 580-64859/10	13:05	98		99		93		92		89	
ICSAB 580-64859/11	13:12	97		97		91		88		88	
CCV 580-64859/44	17:43	109		108		90		102		93	
CCB 580-64859/45	17:50	107		109		92		104		95	
MB 580-64624/21-A	17:57					93		105			
LCS 580-64624/22-A	18:47					86		95			
LCSD 580-64624/23-A	18:54					86		96			
LCSSRM	19:02					92		103			
CCV 580-64859/56	19:09	110		107		90		104		93	
CCB 580-64859/57	19:16	110		110		92		108		97	
580-19403-5	19:44					73		79			
580-19403-6	19:52					87		97			
580-19403-7	19:59					84		94			
580-19403-8	20:06					88		103			
580-19403-18	20:13					89		106			
580-19403-19	20:20					86		102			
CCV 580-64859/67	20:34	109		109		84		100		87	
CCB 580-64859/68	20:41	104		103		85		100		89	
580-19403-20	20:49					83		98			
580-19403-21	20:56					81		92			
580-19403-22	21:03					85		101			
580-19403-23	21:10					84		101			
580-19403-24	21:17					85		106			
580-19403-25	21:24					86		107			
580-19403-26	21:31					80		102			
580-19403-27	21:38					83		105			
CCV 580-64859/77	21:53	105		104		78		95		80	
CCB 580-64859/78	22:00	99		98		75		94		80	

FORM XV - IN

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

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 06/02/2010 End Date: 06/02/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Ge	Q	Element Ge	Q	Element Rh	Q	Element Rh	Q	Element Ho	Q
ICV 580-64859/7	12:36	100		105		98		97		102	
ICB 580-64859/8	12:43	103		103		103		100		102	
CRI 580-64859/9	12:57	103				103		101		104	
ICSA 580-64859/10	13:05	86		94		78		83		91	
ICSAB 580-64859/11	13:12	83		91		75		81		89	
CCV 580-64859/44	17:43	102		111		102		106		105	
CCB 580-64859/45	17:50	106		112		108		109		107	
MB 580-64624/21-A	17:57					108		109		105	
LCS 580-64624/22-A	18:47					101		101		104	
LCSD 580-64624/23-A	18:54					101		102		105	
LCSSRM	19:02					104		108		110	
CCV 580-64859/56	19:09	105		114		106		108		108	
CCB 580-64859/57	19:16	109		118		112		113		111	
580-19403-5	19:44					83		88		95	
580-19403-6	19:52					92		97		103	
580-19403-7	19:59					87		92		99	
580-19403-8	20:06					96		101		107	
580-19403-18	20:13					99		104		108	
580-19403-19	20:20					99		102		107	
CCV 580-64859/67	20:34	101		114		102		109		109	
CCB 580-64859/68	20:41	104		113		108		110		110	
580-19403-20	20:49					97		102		106	
580-19403-21	20:56					97		97		103	
580-19403-22	21:03					93		99		107	
580-19403-23	21:10					94		98		106	
580-19403-24	21:17					95		100		105	
580-19403-25	21:24					95		101		106	
580-19403-26	21:31					95		101		106	
580-19403-27	21:38					97		103		107	
CCV 580-64859/77	21:53	98		110		99		105		107	
CCB 580-64859/78	22:00	98		109		102		105		106	

FORM XV - IN

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

METALS

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

SDG No.:

ICP-MS Instrument ID: SEA044 Start Date: 06/02/2010 End Date: 06/02/2010

Lab Sample ID	Time	Internal Standards %RI For:									
		Element Lu	Q	Element Bi	Q	Element	Q	Element	Q	Element	Q
ICV 580-64859/7	12:36	101		98							
ICB 580-64859/8	12:43	103		103							
CRI 580-64859/9	12:57	101									
ICSA 580-64859/10	13:05	90		80							
ICSAB 580-64859/11	13:12	88		80							
CCV 580-64859/44	17:43	104		102							
CCB 580-64859/45	17:50	104		106							
MB 580-64624/21-A	17:57	104									
LCS 580-64624/22-A	18:47	103									
LCSD 580-64624/23-A	18:54	104									
LCSSRM	19:02	107									
CCV 580-64859/56	19:09	108		106							
CCB 580-64859/57	19:16	108		110							
580-19403-5	19:44	96									
580-19403-6	19:52	102									
580-19403-7	19:59	98									
580-19403-8	20:06	104									
580-19403-18	20:13	105									
580-19403-19	20:20	105									
CCV 580-64859/67	20:34	106		105							
CCB 580-64859/68	20:41	107		109							
580-19403-20	20:49	105									
580-19403-21	20:56	102									
580-19403-22	21:03	103									
580-19403-23	21:10	103									
580-19403-24	21:17	102									
580-19403-25	21:24	103									
580-19403-26	21:31	103									
580-19403-27	21:38	104									
CCV 580-64859/77	21:53	106		104							
CCB 580-64859/78	22:00	106		106							

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

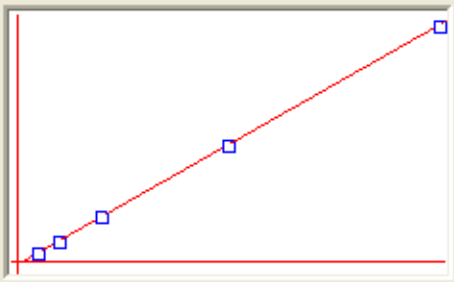
☑ Accepted

Accept

Rel. Abs.
1065993

Accepted

New



Conc. 10.0

Include S1 Rep 1 ☑ 2 ☑ 3 ☑ 4 ☐ 5 ☐

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
06	10.000	9.99	-.005	1065993	0.61%	1073351	1060908	1063722

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:  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
                                                                          =
*** Sample ID: 580-519448            Seq:  339    12:37:05 26 May 10   HG
                           FCW(#SEA29)64211
Hg   -.024    PPB       .000     -.024
                                                                          =
===============================================================================
*** Sample ID: 580-519449            Seq:  340    12:41:38 26 May 10   HG
                           FCW(#SEA29)64211
Hg    2.16    PPB       .000      2.16
                                                                          =
===============================================================================
*** Sample ID: 580-519450            Seq:  341    12:46:08 26 May 10   HG
                           FCW(#SEA29)64211
Hg    2.14    PPB       .000      2.14
                                                                          =
===============================================================================
*** Sample ID: 580-519451            Seq:  342    12:50:26 26 May 10   HG
                           FCW(#SEA29) 2X
Hg    5.26    PPB       .000      5.26
                                                                          =
===============================================================================
*** Sample ID: 580-519426            Seq:  343    12:55:05 26 May 10   HG
                           FCW(#SEA29) 1X
Hg    .814    PPB       .000      .814
                                                                          =
===============================================================================
*** Sample ID: 580-519427            Seq:  344    12:59:26 26 May 10   HG
                           FCW(#SEA29) 1X
Hg    .399    PPB       .000      .399
                                                                          =
===============================================================================
*** Sample ID: 580-519428            Seq:  345    13:03:50 26 May 10   HG
                           FCW(#SEA29) 1X
Hg    2.51    PPB       .000      2.51
                                                                          =
===============================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: 580-519429            Seq:  346    13:08:29 26 May 10   HG
                            FCW(#SEA29) 1X
Hg    2.60    PPB       .000      2.60
                                                                                =
================================================================================
*** Sample ID: 580-519430            Seq:  347    13:12:50 26 May 10   HG
                            FCW(#SEA29) 1X
Hg    .498    PPB       .000      .498
                                                                                =
================================================================================
*** Sample ID: 580-519431            Seq:  348    13:18:00 26 May 10   HG
                            FCW(#SEA29) 1X
Hg    .388    PPB       .000      .388
                                                                                =
*** Check Standard: 4  Ck45PPB      Seq:  349     13:22:19 26 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          104.     5.18    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1BLANK     Seq:  350     13:26:39 26 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.012     .200     PPB        .000
                                                                                =
*** Sample ID: 580-519432            Seq:  351    13:31:00 26 May 10   HG
                            FCW(#SEA29) 1X
Hg    .405    PPB       .000      .405
                                                                                =
================================================================================
*** Sample ID: 580-519433            Seq:  352    13:35:21 26 May 10   HG
                            FCW(#SEA29) 1X
Hg    .371    PPB       .000      .371
                                                                                =
================================================================================
*** Sample ID: 580-519434            Seq:  353    13:39:41 26 May 10   HG
                            FCW(#SEA29) 1X
Hg    .509    PPB       .000      .509
                                                                                =
================================================================================
*** Sample ID: 580-519435            Seq:  354    13:43:59 26 May 10   HG
                            FCW(#SEA29) 1X
Hg    1.92    PPB       .000      1.92
                                                                                =
================================================================================
*** Sample ID: 580-519436            Seq:  355    13:48:30 26 May 10   HG
                            FCW(#SEA29) 1X
Hg    .646    PPB       .000      .646
                                                                                =
================================================================================
*** Sample ID: 580-519437            Seq:  356    13:52:52 26 May 10   HG
                            FCW(#SEA29) 1X
Hg    .166    PPB       .000      .166
                                                                                =
*** Check Standard: 4  Ck45PPB      Seq:  357     13:57:35 26 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          104.     5.22    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1BLANK     Seq:  358     14:01:53 26 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.017     .200     PPB        .000
                                                                                =
*** Sample ID: 580-519438            Seq:  359    14:06:21 26 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .307    PPB       .000      .307
                                                                                =
================================================================================
```

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
--------------------------------------------------------------------------------

*** Sample ID: 580-519439            Seq:  360    14:11:33 26 May 10   HG
                            FCW(#SEA29) 1000X
Hg    5.56    PPB       .000      5.56
                                                                                =
================================================================================
*** Sample ID: 580-519440            Seq:  361    14:15:53 26 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .539    PPB       .000      .539
                                                                                =
================================================================================
*** Sample ID: 580-519443            Seq:  364    14:29:25 26 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .476    PPB       .000      .476
                                                                                =
================================================================================
*** Sample ID: 580-519444            Seq:  365    14:34:09 26 May 10   HG
                            FCW(#SEA29) 1000X
Hg    1.07    PPB       .000      1.07
                                                                                =
================================================================================
*** Sample ID: 580-519445            Seq:  366    14:38:38 26 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .254    PPB       .000      .254
                                                                                =
================================================================================
*** Sample ID: 580-519446            Seq:  367    14:42:57 26 May 10   HG
                            FCW(#SEA29) 1000X
Hg    .328    PPB       .000      .328
                                                                                =
================================================================================
*** Sample ID: 580-519447            Seq:  368    14:47:15 26 May 10   HG
                            FCW(#SEA29) 1000X
Hg    1.70    PPB       .000      1.70
                                                                                =
*** Check Standard: 4  Ck45PPB      Seq:  369     14:51:44 26 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          105.     5.27    5.00   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1BLANK     Seq:  370     14:56:06 26 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.015     .200     PPB        .000
                                                                                =
*** Sample ID: 580-519441            Seq:  371    15:00:27 26 May 10   HG
                            FCW(#SEA29) 100X
Hg    2.00    PPB       .000      2.00
                                                                                =
================================================================================
*** Sample ID: 580-519442            Seq:  372    15:05:02 26 May 10   HG
                            FCW(#SEA29) 100X
Hg    2.13    PPB       .000      2.13
                                                                                =
*** Check Standard: 4  Ck45PPB      Seq:  373     15:09:23 26 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          104.     5.18    5.00   PPB        .000
                                                                                =
*** Check Standard: 3  Ck30.2PPB    Seq:  374     15:13:42 26 May 10   HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          97.4     .195    .200   PPB        .000
                                                                                =
*** Check Standard: 1  Ck1BLANK     Seq:  375     15:18:00 26 May 10   HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.006     .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	2.600E-05		1.252E-03		4.818E-04	ug/l
2	23	Na	1.0000	11.21	2.030	170.0	ug/l		
2	24	Mg	1.0000	4.765E-03		8.081E-02		1.281E-01	ug/l
2	27	Al	1.0000	1.332E-02		6.833E-01		7.409E-01	ug/l
2	31	P	0.9999	4.636E-02		23.46	36.36	ug/l	
2	39	K	1.0000	5.394	3.552	180.2	ug/l		
1	40	Ca	1.0000	2.486E-01		4.563E-01		2.158	ug/l
1	45	Sc	0.0000	---	---	---	ug/l		
2	45	Sc	0.0000	---	---	---	ug/l		
2	47	Ti	1.0000	4.343E-05		2.809E-02		5.406E-03	ug/l
2	51	V	1.0000	5.499E-02		9.608E-02		2.874E-01	ug/l
2	52	Cr	1.0000	3.552E-02		4.887E-02		1.564E-01	ug/l
1	54	Fe	0.9999	3.364E-02		4.463E-01		1.579	ug/l
2	55	Mn	1.0000	3.768E-03		1.114E-02		2.450E-02	ug/l
2	59	Co	1.0000	4.770E-04		3.015E-03		1.592E-03	ug/l
2	60	Ni	1.0000	5.847E-03		2.550E-02		7.493E-02	ug/l
2	63	Cu	1.0000	1.754E-02		7.663E-02		8.805E-02	ug/l
2	66	Zn	1.0000	5.842E-03		1.157E-01		1.328E-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	0.9999	4.287E-03		2.481E-02		1.481E-01	ug/l
1	78	Se	1.0000	9.200E-05		3.584E-02		6.897E-03	ug/l
3	88	Sr	0.9998	6.650E-03		7.110E-03		1.388E-02	ug/l
3	95	Mo	1.0000	1.422E-03		1.076E-02		1.477E-02	ug/l
2	103	Rh	0.0000	---	---	---	ug/l		
3	103	Rh	0.0000	---	---	---	ug/l		
3	107	Ag	1.0000	4.743E-04		4.497E-03		1.731E-03	ug/l
3	111	Cd	1.0000	-1.103E-04		4.760E-02		-1.709E-03	ug/l
3	118	Sn	0.9999	1.427E-03		1.717E-02		8.573E-03	ug/l
3	121	Sb	0.9999	5.948E-04		4.804E-03		2.291E-03	ug/l
3	135	Ba	1.0000	4.760E-04		3.581E-02		1.037E-02	ug/l
3	165	Ho	0.0000	---	---	---	ug/l		
3	175	Lu	0.0000	---	---	---	ug/l		
3	200	Hg	1.0000	1.412E-04		8.543E-03		7.251E-03	ug/l
3	205	Tl	1.0000	3.145E-04		1.421E-03		1.869E-03	ug/l
3	208	Pb	1.0000	2.515E-03		5.567E-03		1.076E-02	ug/l
3	209	Bi	0.0000	---	---	---	ug/l		
3	238	U	1.0000	1.055E-04		1.260E-03		3.668E-04	ug/l

TA Seattle/Tacoma Calibration Blank QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.D#
Date Acquired: May 24 2010 08:16 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: May 24 2010 01:17 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	6426759.0	A	48460.00	0.75
7	Li	3	1009068.0	A	27070.00	2.68
9	Be	3	3.3	P	2.89	86.61
23	Na	2	172632.1	P	1226.00	0.71
24	Mg	2	73.3	P	15.28	20.84
25	Mg	2		P		
26	Mg	2		P		
27	Al	2	205.0	P	62.65	30.56
31	P	2	713.4	P	151.50	21.24
39	K	2	83039.9	P	840.50	1.01
40	Ca	1	2363.7	P	193.00	8.17
44	Ca	2		P		
45	Sc	1	475167.5	P	8951.00	1.88
45	Sc	2	257907.4	P	2697.00	1.05
45	Sc	3		A		
47	Ti	2	0.7	P	1.16	173.25
50	V	2		P		
51	V	2	846.7	P	95.05	11.23
52	Cr	2	546.7	P	55.08	10.08
53	Cr	2		P		
54	Fe	1	236.7	P	23.09	9.76
54	Fe	2		P		
55	Mn	2	58.0	P	8.72	15.03
56	Fe	1		P		
59	Co	2	7.3	P	4.62	62.99
60	Ni	2	90.0	P	10.00	11.11
61	Ni	2		P		
63	Cu	2	270.0	P	78.11	28.93
65	Cu	2		P		
66	Zn	2	90.0	P	26.46	29.40
67	Zn	2		P		
68	Zn	2		P		
74	Ge	1	351796.7	P	9334.00	2.65
74	Ge	2	387685.8	P	2419.00	0.62
74	Ge	3	1595557.0	A	8099.00	0.51
75	As	2	66.0	P	3.46	5.25
78	Se	1	0.7	P	1.16	173.25
78	Se	2		P		
88	Sr	2		P		
88	Sr	3	186.7	P	30.55	16.37
95	Mo	3	40.0	P	10.00	25.00
98	Mo	3		P		
99	(Mo)	3		P		
103	Rh	2	769789.4	P	2772.00	0.36
103	Rh	3	1404769.0	A	10610.00	0.76
106	(Cd)	3		P		
107	Ag	3	13.3	P	11.55	86.62
108	(Cd)	3		P		
109	Ag	3		P		
111	Cd	3	-3.1	P	28.66	913.59
114	Cd	3		P		
118	Sn	2		P		
118	Sn	3	40.0	P	26.46	66.15
120	Sn	3		P		
121	Sb	3	16.7	P	11.55	69.30
123	Sb	3		P		
135	Ba	3	13.3	P	15.28	114.60
137	Ba	3		P		
165	Ho	3	2763284.0	A	34450.00	1.25
175	Lu	3	3024532.0	A	17420.00	0.58
200	Hg	3	18.0	P	7.21	40.06
201	Hg	3		P		
202	Hg	3		P		
203	Tl	3		P		
205	Tl	3	40.0	P	10.00	25.00
206	Pb	3		P		
207	Pb	3		P		
208	Pb	3	320.0	P	55.68	17.40
209	Bi	3	6361507.0	A	85180.00	1.34
238	U	3	13.3	P	15.28	114.60

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\052410A.B\009CALS.D\009CALS.D#
Date Acquired: May 24 2010 08:22 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	633.4	P	76.38	12.06
23	Na	103	2	180617.0	P	1543.00	0.85
24	Mg	103	2	5504.7	P	478.40	8.69
27	Al	103	2	388.3	P	30.55	7.87
31	P	103	2	826.7	P	138.70	16.78
39	K	103	2	87945.0	P	712.10	0.81
40	Ca	45	1	13584.4	P	549.60	4.05
47	Ti	103	2	12.0	P	1.00	8.33
51	V	103	2	1166.8	P	109.70	9.40
52	Cr	103	2	900.1	P	105.40	11.71
54	Fe	74	1	1680.2	P	121.70	7.24
55	Mn	103	2	326.7	P	44.06	13.49
59	Co	103	2	453.3	P	35.57	7.85
60	Ni	103	2	216.7	P	30.55	14.10
63	Cu	103	2	603.4	P	20.82	3.45
66	Zn	103	2	293.3	P	92.38	31.49
75	As	103	2	92.0	P	22.27	24.21
78	Se	74	1	12.0	P	5.29	44.10
88	Sr	103	3	1590.2	P	257.10	16.17
95	Mo	103	3	300.0	P	62.45	20.82
107	Ag	103	3	756.7	P	35.12	4.64
111	Cd	103	3	184.7	P	17.96	9.72
118	Sn	103	3	473.4	P	30.55	6.45
121	Sb	103	3	776.7	P	118.50	15.26
135	Ba	103	3	136.7	P	40.42	29.57
200	Hg	209	3	26.7	P	12.86	48.23
205	Tl	209	3	2030.3	P	144.20	7.10
208	Pb	209	3	3340.3	P	121.70	3.64
238	U	209	3	3660.7	P	242.80	6.63

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6459653	1.92	6427000	100.5	30 - 120	
45	Sc	1	476031	1.25	475200	100.2	30 - 120	
45	Sc	2	261419	1.73	257900	101.4	30 - 120	
74	Ge	1	350776	1.22	351800	99.7	30 - 120	
74	Ge	2	392115	0.36	387700	101.1	30 - 120	
74	Ge	3	1596234	1.80	1596000	100.0	30 - 120	
103	Rh	2	781624	0.27	769800	101.5	30 - 120	
103	Rh	3	1387155	1.22	1405000	98.7	30 - 120	
165	Ho	3	2749128	1.25	2763000	99.5	30 - 120	
175	Lu	3	3045450	0.73	3025000	100.7	30 - 120	
209	Bi	3	6383007	0.32	6362000	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\052410A.B\010CALS.D\010CALS.D#
Date Acquired: May 24 2010 08:29 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	6766.9	P	277.90	4.11
23	Na	103	2	272252.3	P	447.80	0.16
24	Mg	103	2	57603.3	P	1536.00	2.67
27	Al	103	2	2782.0	P	53.94	1.94
31	P	103	2	2323.6	P	160.40	6.90
39	K	103	2	130468.0	P	786.50	0.60
40	Ca	45	1	117483.8	P	2821.00	2.40
47	Ti	103	2	124.3	P	3.21	2.59
51	V	103	2	3730.7	P	137.50	3.69
52	Cr	103	2	3884.1	P	184.50	4.75
54	Fe	74	1	15606.8	P	493.00	3.16
55	Mn	103	2	2344.2	P	69.76	2.98
59	Co	103	2	4474.8	P	244.00	5.45
60	Ni	103	2	1273.5	P	49.34	3.87
63	Cu	103	2	3273.9	P	5.78	0.18
66	Zn	103	2	663.4	P	90.75	13.68
75	As	103	2	498.0	P	10.58	2.12
78	Se	74	1	99.3	P	9.45	9.52
88	Sr	103	3	13117.4	P	1022.00	7.79
95	Mo	103	3	2633.7	P	145.80	5.54
107	Ag	103	3	7726.1	P	395.50	5.12
111	Cd	103	3	1749.7	P	230.80	13.19
118	Sn	103	3	4444.3	P	338.70	7.62
121	Sb	103	3	7389.1	P	257.30	3.48
135	Ba	103	3	1290.1	P	55.69	4.32
200	Hg	209	3	156.7	P	25.33	16.17
205	Tl	209	3	21153.3	P	1008.00	4.77
208	Pb	209	3	30366.6	P	2116.00	6.97
238	U	209	3	36422.4	P	2249.00	6.17

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6547855	2.52	6427000	101.9	30 - 120	
45	Sc	1	476341	1.94	475200	100.2	30 - 120	
45	Sc	2	262353	1.26	257900	101.7	30 - 120	
74	Ge	1	354743	3.16	351800	100.8	30 - 120	
74	Ge	2	396296	0.10	387700	102.2	30 - 120	
74	Ge	3	1605579	2.12	1596000	100.6	30 - 120	
103	Rh	2	780124	0.44	769800	101.3	30 - 120	
103	Rh	3	1410123	0.73	1405000	100.4	30 - 120	
165	Ho	3	2748477	0.35	2763000	99.5	30 - 120	
175	Lu	3	3081741	1.43	3025000	101.9	30 - 120	
209	Bi	3	6452031	0.92	6362000	101.4	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\052410A.B\011CALS.D\011CALS.D#
Date Acquired: May 24 2010 08:35 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	70281.4	P	4351.00	6.19
23	Na	103	2	1196830.0	A	806.90	0.07
24	Mg	103	2	576441.9	P	1860.00	0.32
27	Al	103	2	26976.9	P	142.90	0.53
31	P	103	2	18831.2	P	353.90	1.88
39	K	103	2	543991.7	P	2430.00	0.45
40	Ca	45	1	1127811.0	A	20230.00	1.79
47	Ti	103	2	1172.1	P	29.51	2.52
51	V	103	2	28820.1	P	114.10	0.40
52	Cr	103	2	34802.0	P	1128.00	3.24
54	Fe	74	1	152733.3	P	1511.00	0.99
55	Mn	103	2	23280.7	P	221.40	0.95
59	Co	103	2	45799.1	P	341.80	0.75
60	Ni	103	2	11826.0	P	374.00	3.16
63	Cu	103	2	31600.4	P	138.00	0.44
66	Zn	103	2	6662.1	P	206.80	3.10
75	As	103	2	4384.8	P	84.34	1.92
78	Se	74	1	932.7	P	19.42	2.08
88	Sr	103	3	132540.2	P	6086.00	4.59
95	Mo	103	3	26442.5	P	1350.00	5.11
107	Ag	103	3	78534.7	P	1397.00	1.78
111	Cd	103	3	18251.0	P	1032.00	5.65
118	Sn	103	3	47453.5	P	2878.00	6.06
121	Sb	103	3	73231.2	P	3851.00	5.26
135	Ba	103	3	12980.8	P	425.70	3.28
200	Hg	209	3	1314.1	P	75.98	5.78
205	Tl	209	3	208947.6	P	14060.00	6.73
208	Pb	209	3	298792.3	P	13980.00	4.68
238	U	209	3	362943.1	P	20890.00	5.76

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6574255	1.18	6427000	102.3	30 - 120	
45	Sc	1	473742	1.31	475200	99.7	30 - 120	
45	Sc	2	264920	1.38	257900	102.7	30 - 120	
74	Ge	1	350992	1.07	351800	99.8	30 - 120	
74	Ge	2	395946	0.45	387700	102.1	30 - 120	
74	Ge	3	1618657	0.51	1596000	101.4	30 - 120	
103	Rh	2	779434	1.08	769800	101.3	30 - 120	
103	Rh	3	1411184	0.90	1405000	100.4	30 - 120	
165	Ho	3	2768589	0.91	2763000	100.2	30 - 120	
175	Lu	3	3077300	1.17	3025000	101.7	30 - 120	
209	Bi	3	6388787	1.34	6362000	100.4	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\052410A.B\012CALS.D\012CALS.D#
Date Acquired: May 24 2010 08:41 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	356527.8	P	21410.00	6.01
23	Na	103	2	5094092.0	A	11290.00	0.22
24	Mg	103	2	2754125.0	A	30980.00	1.12
27	Al	103	2	133241.8	P	325.00	0.24
31	P	103	2	94735.2	P	2030.00	2.14
39	K	103	2	2308070.0	A	21750.00	0.94
40	Ca	45	1	5495582.0	A	59210.00	1.08
47	Ti	103	2	5968.7	P	83.47	1.40
51	V	103	2	143573.1	P	771.80	0.54
52	Cr	103	2	169887.2	P	296.60	0.17
54	Fe	74	1	759847.0	P	3056.00	0.40
55	Mn	103	2	114287.5	P	611.20	0.53
59	Co	103	2	222417.7	P	2741.00	1.23
60	Ni	103	2	58272.3	P	1403.00	2.41
63	Cu	103	2	149729.4	P	2358.00	1.57
66	Zn	103	2	32753.5	P	191.20	0.58
75	As	103	2	21447.7	P	319.40	1.49
78	Se	74	1	4639.6	P	99.98	2.15
88	Sr	103	3	649238.9	P	36400.00	5.61
95	Mo	103	3	132835.5	P	7669.00	5.77
107	Ag	103	3	382937.6	P	13210.00	3.45
111	Cd	103	3	89471.7	P	5788.00	6.47
118	Sn	103	3	228092.2	P	13360.00	5.86
121	Sb	103	3	355563.7	P	18180.00	5.11
135	Ba	103	3	63125.8	P	3099.00	4.91
200	Hg	209	3	6006.9	P	357.70	5.95
205	Tl	209	3	1022145.0	P	61590.00	6.03
208	Pb	209	3	1443329.0	P	69370.00	4.81
238	U	209	3	1764048.0	A	120800.00	6.85

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6610668	1.77	6427000	102.9	30 - 120	
45	Sc	1	473882	0.29	475200	99.7	30 - 120	
45	Sc	2	264125	1.00	257900	102.4	30 - 120	
74	Ge	1	350074	0.80	351800	99.5	30 - 120	
74	Ge	2	393358	1.57	387700	101.5	30 - 120	
74	Ge	3	1622424	0.72	1596000	101.7	30 - 120	
103	Rh	2	750998	0.74	769800	97.6	30 - 120	
103	Rh	3	1395916	1.48	1405000	99.4	30 - 120	
165	Ho	3	2718601	1.22	2763000	98.4	30 - 120	
175	Lu	3	3059774	0.33	3025000	101.1	30 - 120	
209	Bi	3	6170754	1.21	6362000	97.0	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\052410A.B\013CALS.D\013CALS.D#
Date Acquired: May 24 2010 08:47 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	720666.3	P	36180.00	5.02
23	Na	103	2	9853257.0	A	68870.00	0.70
24	Mg	103	2	5478470.0	A	40780.00	0.74
27	Al	103	2	265049.7	P	3022.00	1.14
31	P	103	2	188758.3	P	2543.00	1.35
39	K	103	2	4480859.0	A	49060.00	1.09
40	Ca	45	1	10806440.0	A	164400.00	1.52
47	Ti	103	2	11828.8	P	47.09	0.40
51	V	103	2	282241.0	P	2233.00	0.79
52	Cr	103	2	334526.8	P	5205.00	1.56
54	Fe	74	1	1464975.0	A	17500.00	1.19
55	Mn	103	2	226344.7	P	1729.00	0.76
59	Co	103	2	440846.4	P	3344.00	0.76
60	Ni	103	2	114836.6	P	1305.00	1.14
63	Cu	103	2	292605.5	P	2628.00	0.90
66	Zn	103	2	64828.3	P	1400.00	2.16
75	As	103	2	42720.4	P	157.20	0.37
78	Se	74	1	9236.1	P	188.00	2.04
88	Sr	103	3	1319966.0	A	49680.00	3.76
95	Mo	103	3	264155.7	P	11600.00	4.39
107	Ag	103	3	748966.9	P	16520.00	2.21
111	Cd	103	3	176719.8	P	9598.00	5.43
118	Sn	103	3	457269.8	P	24860.00	5.44
121	Sb	103	3	713524.7	P	36180.00	5.07
135	Ba	103	3	125993.1	P	3641.00	2.89
200	Hg	209	3	11814.7	P	553.90	4.69
205	Tl	209	3	2048299.0	A	75920.00	3.71
208	Pb	209	3	2833065.0	A	97420.00	3.44
238	U	209	3	3492446.0	A	186500.00	5.34

ISTD Elements

IS Mass		Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	6675101	1.81	6427000	103.9	30 - 120	
45	Sc	1	469738	1.45	475200	98.9	30 - 120	
45	Sc	2	260139	1.05	257900	100.9	30 - 120	
74	Ge	1	345638	1.90	351800	98.2	30 - 120	
74	Ge	2	386813	0.82	387700	99.8	30 - 120	
74	Ge	3	1603415	1.43	1596000	100.5	30 - 120	
103	Rh	2	733661	1.26	769800	95.3	30 - 120	
103	Rh	3	1367027	1.01	1405000	97.3	30 - 120	
165	Ho	3	2721064	0.29	2763000	98.5	30 - 120	
175	Lu	3	3053823	0.17	3025000	101.0	30 - 120	
209	Bi	3	6058456	0.22	6362000	95.2	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\052410A.B\017SMPL.D\017SMPL.D#
Date Acquired: May 24 2010 09:11 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	**40.280**	ug/l	40.28	5.2	450	6	P	
23	**Na**	2	**3874.000**	ug/l	3,874.00	2.5	450000	103	A	
24	**Mg**	2	**3916.000**	ug/l	3,916.00	2.2	450000	103	A	
27	**Al**	2	**385.900**	ug/l	385.90	1.7	450000	103	P	
31	**P**	2	**3852.000**	ug/l	3,852.00	0.5	450000	103	P	
39	**K**	2	**3924.000**	ug/l	3,924.00	1.3	450000	103	A	
40	**Ca**	1	**4091.000**	ug/l	4,091.00	0.9	450000	45	A	
47	**Ti**	2	**38.880**	ug/l	38.88	1.2	4500	103	P	
51	**V**	2	**38.410**	ug/l	38.41	1.6	4500	103	P	
52	**Cr**	2	**38.660**	ug/l	38.66	1.1	4500	103	P	
54	**Fe**	1	**4033.000**	ug/l	4,033.00	1.0	450000	74	P	
55	**Mn**	2	**39.140**	ug/l	39.14	1.3	4500	103	P	
59	**Co**	2	**39.370**	ug/l	39.37	0.7	4500	103	P	
60	**Ni**	2	**39.300**	ug/l	39.30	2.4	4500	103	P	
63	**Cu**	2	**39.380**	ug/l	39.38	1.6	4500	103	P	
66	**Zn**	2	**39.960**	ug/l	39.96	2.1	4500	103	P	
75	**As**	2	**39.000**	ug/l	39.00	1.3	4500	103	P	
78	**Se**	1	**38.250**	ug/l	38.25	2.1	450	74	P	
88	**Sr**	3	**39.090**	ug/l	39.09	3.9	4500	103	P	
95	**Mo**	3	**39.410**	ug/l	39.41	5.6	4500	103	P	
107	**Ag**	3	**39.990**	ug/l	39.99	2.4	450	103	P	
111	**Cd**	3	**39.900**	ug/l	39.90	5.9	900	103	P	
118	**Sn**	3	**39.980**	ug/l	39.98	7.3	4500	103	P	
121	**Sb**	3	**39.720**	ug/l	39.72	4.8	4500	103	P	
135	**Ba**	3	**39.490**	ug/l	39.49	5.9	4500	103	P	
200	**Hg**	3	**2.008**	ug/l	2.01	1.6	45	209	P	
205	**Tl**	3	**40.010**	ug/l	40.01	4.8	4500	209	P	
208	**Pb**	3	**40.290**	ug/l	40.29	3.0	4500	209	P	
238	**U**	3	**39.890**	ug/l	39.89	3.8	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6606909	1.34	6427000	**102.8**	30	-	120	
45	Sc	1	482359	0.83	475200	**101.5**	30	-	120	
45	Sc	2	271553	1.23	257900	**105.3**	30	-	120	
74	Ge	1	361880	1.17	351800	**102.9**	30	-	120	
74	Ge	2	402492	0.33	387700	**103.8**	30	-	120	
74	Ge	3	1651821	1.34	1596000	**103.5**	30	-	120	
103	Rh	2	782262	1.18	769800	**101.6**	30	-	120	
103	Rh	3	1431091	0.76	1405000	**101.9**	30	-	120	
165	Ho	3	2844494	1.19	2763000	**102.9**	30	-	120	
175	Lu	3	3141342	0.87	3025000	**103.8**	30	-	120	
209	Bi	3	6362111	0.77	6362000	**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\052410A.B\018SMPL.D\018SMPL.D#
Date Acquired: May 24 2010 09:17 am 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	77.4	450	6	P	
23	**Na**	2	**-30.980**	ug/l	-30.98	10.8	450000	103	P	
24	**Mg**	2	**0.043**	ug/l	0.04	44.2	450000	103	P	
27	**Al**	2	**-0.096**	ug/l	-0.10	99.7	450000	103	P	
31	**P**	2	**-0.789**	ug/l	-0.79	354.5	450000	103	P	
39	**K**	2	**-5.185**	ug/l	-5.19	32.0	450000	103	P	
40	**Ca**	1	**0.041**	ug/l	0.04	352.8	450000	45	P	
47	**Ti**	2	**0.010**	ug/l	0.01	77.4	4500	103	P	
51	**V**	2	**-0.062**	ug/l	-0.06	44.1	4500	103	P	
52	**Cr**	2	**0.003**	ug/l	0.00	748.8	4500	103	P	
54	**Fe**	1	**-0.379**	ug/l	-0.38	111.8	450000	74	P	
55	**Mn**	2	**0.010**	ug/l	0.01	20.3	4500	103	P	
59	**Co**	2	**0.001**	ug/l	0.00	32.0	4500	103	P	
60	**Ni**	2	**0.038**	ug/l	0.04	63.3	4500	103	P	
63	**Cu**	2	**-0.006**	ug/l	-0.01	277.5	4500	103	P	
66	**Zn**	2	**-0.058**	ug/l	-0.06	73.8	4500	103	P	
75	**As**	2	**-0.035**	ug/l	-0.03	31.5	4500	103	P	
78	**Se**	1	**0.007**	ug/l	0.01	178.3	450	74	P	
88	**Sr**	3	**0.001**	ug/l	0.00	333.2	4500	103	P	
95	**Mo**	3	**0.002**	ug/l	0.00	329.0	4500	103	P	
107	**Ag**	3	**0.001**	ug/l	0.00	123.2	450	103	P	
111	**Cd**	3	**0.002**	ug/l	0.00	339.3	900	103	P	
118	**Sn**	3	**0.011**	ug/l	0.01	45.1	4500	103	P	
121	**Sb**	3	**0.011**	ug/l	0.01	63.5	4500	103	P	
135	**Ba**	3	**0.007**	ug/l	0.01	164.2	4500	103	P	
200	**Hg**	3	**0.007**	ug/l	0.01	73.1	45	209	P	
205	**Tl**	3	**0.226**	ug/l	0.23	5.8	4500	209	P	
208	**Pb**	3	**0.002**	ug/l	0.00	104.7	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.00	112.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6497935	0.90	6427000	**101.1**	30	-	120	
45	Sc	1	493915	2.19	475200	**103.9**	30	-	120	
45	Sc	2	276940	1.22	257900	**107.4**	30	-	120	
74	Ge	1	369437	2.55	351800	**105.0**	30	-	120	
74	Ge	2	415491	0.37	387700	**107.2**	30	-	120	
74	Ge	3	1663355	1.06	1596000	**104.2**	30	-	120	
103	Rh	2	812271	0.25	769800	**105.5**	30	-	120	
103	Rh	3	1477984	0.91	1405000	**105.2**	30	-	120	
165	Ho	3	2864025	0.31	2763000	**103.7**	30	-	120	
175	Lu	3	3201601	0.90	3025000	**105.8**	30	-	120	
209	Bi	3	6643174	1.35	6362000	**104.4**	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\052410A.B\020SMPL.D\020SMPL.D#
Date Acquired: May 24 2010 09:30 am 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	**2.057**	ug/l	2.06	3.3	450	6	P	
23	**Na**	2	**171.000**	ug/l	171.00	2.1	450000	103	P	
24	**Mg**	2	**200.000**	ug/l	200.00	1.3	450000	103	P	
27	**Al**	2	**20.050**	ug/l	20.05	2.7	450000	103	P	
31	**P**	2	**182.500**	ug/l	182.50	12.1	450000	103	P	
39	**K**	2	**198.000**	ug/l	198.00	2.0	450000	103	P	
40	**Ca**	1	**213.400**	ug/l	213.40	1.4	450000	45	P	
47	**Ti**	2	**1.947**	ug/l	1.95	2.9	4500	103	P	
51	**V**	2	**1.860**	ug/l	1.86	1.7	4500	103	P	
52	**Cr**	2	**1.935**	ug/l	1.94	4.5	4500	103	P	
54	**Fe**	1	**208.300**	ug/l	208.30	3.1	450000	74	P	
55	**Mn**	2	**1.983**	ug/l	1.98	3.4	4500	103	P	
59	**Co**	2	**1.979**	ug/l	1.98	1.2	4500	103	P	
60	**Ni**	2	**1.970**	ug/l	1.97	6.7	4500	103	P	
63	**Cu**	2	**2.022**	ug/l	2.02	3.4	4500	103	P	
66	**Zn**	2	**1.978**	ug/l	1.98	8.3	4500	103	P	
75	**As**	2	**2.025**	ug/l	2.03	5.5	4500	103	P	
78	**Se**	1	**2.029**	ug/l	2.03	13.5	450	74	P	
88	**Sr**	3	**2.006**	ug/l	2.01	2.2	4500	103	P	
95	**Mo**	3	**2.101**	ug/l	2.10	6.2	4500	103	P	
107	**Ag**	3	**2.080**	ug/l	2.08	2.3	450	103	P	
111	**Cd**	3	**2.053**	ug/l	2.05	6.8	900	103	P	
118	**Sn**	3	**2.060**	ug/l	2.06	3.1	4500	103	P	
121	**Sb**	3	**2.073**	ug/l	2.07	2.3	4500	103	P	
135	**Ba**	3	**1.956**	ug/l	1.96	8.7	4500	103	P	
200	**Hg**	3	**0.120**	ug/l	0.12	1.0	45	209	P	
205	**Tl**	3	**2.078**	ug/l	2.08	4.6	4500	209	P	
208	**Pb**	3	**2.078**	ug/l	2.08	3.3	4500	209	P	
238	**U**	3	**2.034**	ug/l	2.03	3.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6710676	1.73	6427000	**104.4**	30	-	120	
45	Sc	1	495548	0.90	475200	**104.3**	30	-	120	
45	Sc	2	279163	0.74	257900	**108.2**	30	-	120	
74	Ge	1	369453	1.06	351800	**105.0**	30	-	120	
74	Ge	2	417193	0.19	387700	**107.6**	30	-	120	
74	Ge	3	1706062	1.13	1596000	**106.9**	30	-	120	
103	Rh	2	818996	0.36	769800	**106.4**	30	-	120	
103	Rh	3	1486647	0.52	1405000	**105.8**	30	-	120	
165	Ho	3	2877257	0.56	2763000	**104.1**	30	-	120	
175	Lu	3	3180959	0.09	3025000	**105.2**	30	-	120	
209	Bi	3	6684655	1.86	6362000	**105.1**	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\052410A.B\021SMPL.D\021SMPL.D#
Date Acquired: May 24 2010 09:36 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	30.9	450	6	P	
23	**Na**	2	**283200.000**	ug/l	283,200.00	1.6	450000	103	A	
24	**Mg**	2	**109300.000**	ug/l	109,300.00	1.1	450000	103	A	
27	**Al**	2	**109400.000**	ug/l	109,400.00	0.6	450000	103	A	
31	**P**	2	**118900.000**	ug/l	118,900.00	1.1	450000	103	A	
39	**K**	2	**112100.000**	ug/l	112,100.00	0.9	450000	103	A	
40	**Ca**	1	**300100.000**	ug/l	300,100.00	0.6	450000	45	A	
47	**Ti**	2	**2279.000**	ug/l	2,279.00	0.4	4500	103	P	
51	**V**	2	**0.140**	ug/l	0.14	48.7	4500	103	P	
52	**Cr**	2	**1.257**	ug/l	1.26	8.5	4500	103	P	
54	**Fe**	1	**230000.000**	ug/l	230,000.00	1.2	450000	74	A	
55	**Mn**	2	**6.292**	ug/l	6.29	0.5	4500	103	P	
59	**Co**	2	**4.032**	ug/l	4.03	1.6	4500	103	P	
60	**Ni**	2	**2.958**	ug/l	2.96	3.4	4500	103	P	
63	**Cu**	2	**4.082**	ug/l	4.08	1.6	4500	103	P	
66	**Zn**	2	**3.601**	ug/l	3.60	4.6	4500	103	P	
75	**As**	2	**0.499**	ug/l	0.50	20.0	4500	103	P	
78	**Se**	1	**0.037**	ug/l	0.04	1.9	450	74	P	
88	**Sr**	3	**17.860**	ug/l	17.86	2.3	4500	103	P	
95	**Mo**	3	**2141.000**	ug/l	2,141.00	2.9	4500	103	A	
107	**Ag**	3	**0.186**	ug/l	0.19	5.7	450	103	P	
111	**Cd**	3	**0.069**	ug/l	0.07	166.1	900	103	P	
118	**Sn**	3	**0.122**	ug/l	0.12	6.6	4500	103	P	
121	**Sb**	3	**0.647**	ug/l	0.65	10.0	4500	103	P	
135	**Ba**	3	**0.474**	ug/l	0.47	12.9	4500	103	P	
200	**Hg**	3	**0.017**	ug/l	0.02	6.1	45	209	P	
205	**Tl**	3	**0.081**	ug/l	0.08	6.1	4500	209	P	
208	**Pb**	3	**0.271**	ug/l	0.27	5.1	4500	209	P	
238	**U**	3	**0.003**	ug/l	0.00	43.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6793446	1.05	6427000	**105.7**	30	-	120	
45	Sc	1	483261	0.48	475200	**101.7**	30	-	120	
45	Sc	2	253125	0.95	257900	**98.1**	30	-	120	
74	Ge	1	339880	1.61	351800	**96.6**	30	-	120	
74	Ge	2	355017	0.59	387700	**91.6**	30	-	120	
74	Ge	3	1541471	0.38	1596000	**96.6**	30	-	120	
103	Rh	2	619194	0.34	769800	**80.4**	30	-	120	
103	Rh	3	1207908	0.57	1405000	**86.0**	30	-	120	
165	Ho	3	2460732	1.69	2763000	**89.1**	30	-	120	
175	Lu	3	2757289	1.61	3025000	**91.2**	30	-	120	
209	Bi	3	5065202	0.45	6362000	**79.6**	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\052410A.B\022SMPL.D\022SMPL.D#
Date Acquired: May 24 2010 09:42 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	34.2	450	6	P	
23	**Na**	2	**283300.000**	ug/l	283,300.00	1.8	450000	103	A	
24	**Mg**	2	**109300.000**	ug/l	109,300.00	1.6	450000	103	A	
27	**Al**	2	**110200.000**	ug/l	110,200.00	1.4	450000	103	A	
31	**P**	2	**118300.000**	ug/l	118,300.00	0.3	450000	103	A	
39	**K**	2	**110900.000**	ug/l	110,900.00	1.5	450000	103	A	
40	**Ca**	1	**298300.000**	ug/l	298,300.00	0.5	450000	45	A	
47	**Ti**	2	**2195.000**	ug/l	2,195.00	0.7	4500	103	P	
51	**V**	2	**225.300**	ug/l	225.30	0.8	4500	103	P	
52	**Cr**	2	**220.400**	ug/l	220.40	0.6	4500	103	P	
54	**Fe**	1	**230100.000**	ug/l	230,100.00	0.3	450000	74	A	
55	**Mn**	2	**223.200**	ug/l	223.20	1.0	4500	103	P	
59	**Co**	2	**222.200**	ug/l	222.20	0.7	4500	103	P	
60	**Ni**	2	**212.300**	ug/l	212.30	0.9	4500	103	P	
63	**Cu**	2	**210.600**	ug/l	210.60	0.2	4500	103	P	
66	**Zn**	2	**106.100**	ug/l	106.10	0.8	4500	103	P	
75	**As**	2	**115.900**	ug/l	115.90	1.1	4500	103	P	
78	**Se**	1	**101.600**	ug/l	101.60	0.6	450	74	P	
88	**Sr**	3	**17.830**	ug/l	17.83	3.4	4500	103	P	
95	**Mo**	3	**2138.000**	ug/l	2,138.00	4.7	4500	103	A	
107	**Ag**	3	**50.260**	ug/l	50.26	2.2	450	103	P	
111	**Cd**	3	**102.900**	ug/l	102.90	2.7	900	103	P	
118	**Sn**	3	**0.101**	ug/l	0.10	15.9	4500	103	P	
121	**Sb**	3	**0.719**	ug/l	0.72	8.4	4500	103	P	
135	**Ba**	3	**0.467**	ug/l	0.47	29.5	4500	103	P	
200	**Hg**	3	**0.011**	ug/l	0.01	23.9	45	209	P	
205	**Tl**	3	**0.051**	ug/l	0.05	15.2	4500	209	P	
208	**Pb**	3	**0.267**	ug/l	0.27	3.7	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.00	8.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6490813	0.83	6427000	**101.0**	30	-	120	
45	Sc	1	479713	0.40	475200	**100.9**	30	-	120	
45	Sc	2	243093	0.40	257900	**94.3**	30	-	120	
74	Ge	1	341492	0.84	351800	**97.1**	30	-	120	
74	Ge	2	343052	0.26	387700	**88.5**	30	-	120	
74	Ge	3	1509506	0.89	1596000	**94.6**	30	-	120	
103	Rh	2	601249	0.50	769800	**78.1**	30	-	120	
103	Rh	3	1185802	0.17	1405000	**84.4**	30	-	120	
165	Ho	3	2458500	0.60	2763000	**89.0**	30	-	120	
175	Lu	3	2746272	0.72	3025000	**90.8**	30	-	120	
209	Bi	3	5061487	0.84	6362000	**79.6**	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\052410A.B\025SMPL.D\025SMPL.D#
Date Acquired: May 24 2010 10:00 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	**51.520**	ug/l	51.52	5.6	450	6	P	
23	**Na**	2	**4960.000**	ug/l	4,960.00	1.2	450000	103	A	
24	**Mg**	2	**4911.000**	ug/l	4,911.00	1.0	450000	103	A	
27	**Al**	2	**486.900**	ug/l	486.90	2.2	450000	103	P	
31	**P**	2	**4783.000**	ug/l	4,783.00	1.9	450000	103	P	
39	**K**	2	**4978.000**	ug/l	4,978.00	0.9	450000	103	A	
40	**Ca**	1	**5032.000**	ug/l	5,032.00	1.4	450000	45	A	
47	**Ti**	2	**47.900**	ug/l	47.90	1.2	4500	103	P	
51	**V**	2	**48.160**	ug/l	48.16	1.2	4500	103	P	
52	**Cr**	2	**47.560**	ug/l	47.56	2.3	4500	103	P	
54	**Fe**	1	**5117.000**	ug/l	5,117.00	0.8	450000	74	P	
55	**Mn**	2	**49.140**	ug/l	49.14	0.9	4500	103	P	
59	**Co**	2	**48.590**	ug/l	48.59	1.3	4500	103	P	
60	**Ni**	2	**48.280**	ug/l	48.28	1.9	4500	103	P	
63	**Cu**	2	**48.250**	ug/l	48.25	2.4	4500	103	P	
66	**Zn**	2	**48.530**	ug/l	48.53	1.9	4500	103	P	
75	**As**	2	**48.150**	ug/l	48.15	1.1	4500	103	P	
78	**Se**	1	**50.440**	ug/l	50.44	1.5	450	74	P	
88	**Sr**	3	**48.980**	ug/l	48.98	4.3	4500	103	P	
95	**Mo**	3	**49.080**	ug/l	49.08	5.2	4500	103	P	
107	**Ag**	3	**50.450**	ug/l	50.45	2.2	450	103	P	
111	**Cd**	3	**50.210**	ug/l	50.21	4.1	900	103	P	
118	**Sn**	3	**50.980**	ug/l	50.98	5.3	4500	103	P	
121	**Sb**	3	**51.520**	ug/l	51.52	4.3	4500	103	P	
135	**Ba**	3	**51.240**	ug/l	51.24	4.9	4500	103	P	
200	**Hg**	3	**2.457**	ug/l	2.46	1.4	45	209	P	
205	**Tl**	3	**49.080**	ug/l	49.08	3.3	4500	209	P	
208	**Pb**	3	**49.950**	ug/l	49.95	3.1	4500	209	P	
238	**U**	3	**49.920**	ug/l	49.92	3.2	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6091214	0.59	6427000	**94.8**	30	-	120	
45	Sc	1	479888	1.14	475200	**101.0**	30	-	120	
45	Sc	2	260738	0.87	257900	**101.1**	30	-	120	
74	Ge	1	353897	1.09	351800	**100.6**	30	-	120	
74	Ge	2	391629	0.39	387700	**101.0**	30	-	120	
74	Ge	3	1592144	0.97	1596000	**99.8**	30	-	120	
103	Rh	2	754736	1.17	769800	**98.0**	30	-	120	
103	Rh	3	1384216	0.46	1405000	**98.5**	30	-	120	
165	Ho	3	2830823	1.03	2763000	**102.5**	30	-	120	
175	Lu	3	3175527	1.38	3025000	**105.0**	30	-	120	
209	Bi	3	6516656	0.55	6362000	**102.4**	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\052410A.B\026SMPL.D\026SMPL.D#
Date Acquired: May 24 2010 10:06 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	25.0	450	6	P	
23	**Na**	2	**-50.480**	ug/l	-50.48	5.4	450000	103	P	
24	**Mg**	2	**0.115**	ug/l	0.12	41.5	450000	103	P	
27	**Al**	2	**-0.049**	ug/l	-0.05	111.9	450000	103	P	
31	**P**	2	**-0.641**	ug/l	-0.64	166.2	450000	103	P	
39	**K**	2	**-1.973**	ug/l	-1.97	41.2	450000	103	P	
40	**Ca**	1	**0.159**	ug/l	0.16	54.0	450000	45	P	
47	**Ti**	2	**0.005**	ug/l	0.01	177.9	4500	103	P	
51	**V**	2	**-0.055**	ug/l	-0.05	25.2	4500	103	P	
52	**Cr**	2	**-0.019**	ug/l	-0.02	103.5	4500	103	P	
54	**Fe**	1	**0.262**	ug/l	0.26	51.9	450000	74	P	
55	**Mn**	2	**-0.009**	ug/l	-0.01	25.4	4500	103	P	
59	**Co**	2	**0.001**	ug/l	0.00	112.6	4500	103	P	
60	**Ni**	2	**0.014**	ug/l	0.01	248.3	4500	103	P	
63	**Cu**	2	**0.008**	ug/l	0.01	191.8	4500	103	P	
66	**Zn**	2	**-0.023**	ug/l	-0.02	95.2	4500	103	P	
75	**As**	2	**-0.045**	ug/l	-0.04	40.5	4500	103	P	
78	**Se**	1	**0.000**	ug/l	0.00	7376.7	450	74	P	
88	**Sr**	3	**-0.002**	ug/l	0.00	69.3	4500	103	P	
95	**Mo**	3	**0.012**	ug/l	0.01	68.2	4500	103	P	
107	**Ag**	3	**0.006**	ug/l	0.01	57.2	450	103	P	
111	**Cd**	3	**0.010**	ug/l	0.01	40.0	900	103	P	
118	**Sn**	3	**0.017**	ug/l	0.02	61.8	4500	103	P	
121	**Sb**	3	**0.008**	ug/l	0.01	107.6	4500	103	P	
135	**Ba**	3	**0.005**	ug/l	0.00	153.3	4500	103	P	
200	**Hg**	3	**0.013**	ug/l	0.01	9.0	45	209	P	
205	**Tl**	3	**0.253**	ug/l	0.25	7.2	4500	209	P	
208	**Pb**	3	**0.004**	ug/l	0.00	41.4	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.00	46.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6193530	2.63	6427000	**96.4**	30	-	120	
45	Sc	1	491820	2.16	475200	**103.5**	30	-	120	
45	Sc	2	265049	0.94	257900	**102.8**	30	-	120	
74	Ge	1	365890	2.46	351800	**104.0**	30	-	120	
74	Ge	2	404136	0.46	387700	**104.2**	30	-	120	
74	Ge	3	1598505	1.22	1596000	**100.2**	30	-	120	
103	Rh	2	790640	0.71	769800	**102.7**	30	-	120	
103	Rh	3	1420088	1.37	1405000	**101.1**	30	-	120	
165	Ho	3	2860859	1.19	2763000	**103.5**	30	-	120	
175	Lu	3	3224225	1.05	3025000	**106.6**	30	-	120	
209	Bi	3	6698733	0.79	6362000	**105.3**	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\052410A.B\027SMPL.D\027SMPL.D#
Date Acquired: May 24 2010 10:12 am Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-63971/1-B 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	0.01	30.9	450	6	P	
23	**Na**	2	**-50.230**	ug/l	-251.15	4.7	450000	103	P	
24	**Mg**	2	**0.318**	ug/l	1.59	46.3	450000	103	P	
27	**Al**	2	**-0.186**	ug/l	-0.93	62.7	450000	103	P	
31	**P**	2	**-4.551**	ug/l	-22.76	159.1	450000	103	P	
39	**K**	2	**-5.999**	ug/l	-30.00	81.2	450000	103	P	
40	**Ca**	1	**0.195**	ug/l	0.98	80.8	450000	45	P	
47	**Ti**	2	**0.018**	ug/l	0.09	75.6	4500	103	P	
51	**V**	2	**-0.025**	ug/l	-0.13	132.3	4500	103	P	
52	**Cr**	2	**0.006**	ug/l	0.03	136.1	4500	103	P	
54	**Fe**	1	**0.325**	ug/l	1.63	192.1	450000	74	P	
55	**Mn**	2	**-0.005**	ug/l	-0.03	70.4	4500	103	P	
59	**Co**	2	**0.002**	ug/l	0.01	68.3	4500	103	P	
60	**Ni**	2	**0.011**	ug/l	0.06	106.6	4500	103	P	
63	**Cu**	2	**0.013**	ug/l	0.07	186.4	4500	103	P	
66	**Zn**	2	**-0.042**	ug/l	-0.21	101.3	4500	103	P	
75	**As**	2	**-0.009**	ug/l	-0.04	190.3	4500	103	P	
78	**Se**	1	**0.013**	ug/l	0.07	152.9	450	74	P	
88	**Sr**	3	**0.000**	ug/l	0.00	2268.1	4500	103	P	
95	**Mo**	3	**0.006**	ug/l	0.03	70.5	4500	103	P	
107	**Ag**	3	**0.001**	ug/l	0.00	160.7	450	103	P	
111	**Cd**	3	**0.001**	ug/l	0.00	651.4	900	103	P	
118	**Sn**	3	**0.016**	ug/l	0.08	51.8	4500	103	P	
121	**Sb**	3	**0.010**	ug/l	0.05	27.3	4500	103	P	
135	**Ba**	3	**0.015**	ug/l	0.07	146.7	4500	103	P	
200	**Hg**	3	**0.007**	ug/l	0.04	23.4	45	209	P	
205	**Tl**	3	**0.105**	ug/l	0.52	11.4	4500	209	P	
208	**Pb**	3	**0.001**	ug/l	0.01	19.0	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.01	24.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6114075	2.38	6427000	**95.1**	30	-	120	
45	Sc	1	496541	1.60	475200	**104.5**	30	-	120	
45	Sc	2	267212	0.85	257900	**103.6**	30	-	120	
74	Ge	1	370849	2.25	351800	**105.4**	30	-	120	
74	Ge	2	405388	1.14	387700	**104.6**	30	-	120	
74	Ge	3	1601291	0.83	1596000	**100.3**	30	-	120	
103	Rh	2	793625	1.41	769800	**103.1**	30	-	120	
103	Rh	3	1440511	1.70	1405000	**102.5**	30	-	120	
165	Ho	3	2893901	1.26	2763000	**104.7**	30	-	120	
175	Lu	3	3243086	0.39	3025000	**107.2**	30	-	120	
209	Bi	3	6764218	1.29	6362000	**106.3**	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\052410A.B\028SMPL.D\028SMPL.D#
Date Acquired: May 24 2010 10:18 am Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64088/19-A 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	35.0	450	6	P	
23	**Na**	2	**-52.360**	ug/l	-261.80	2.8	450000	103	P	
24	**Mg**	2	**0.200**	ug/l	1.00	26.2	450000	103	P	
27	**Al**	2	**-0.091**	ug/l	-0.46	171.7	450000	103	P	
31	**P**	2	**-5.123**	ug/l	-25.62	80.2	450000	103	P	
39	**K**	2	**-3.439**	ug/l	-17.20	59.4	450000	103	P	
40	**Ca**	1	**0.099**	ug/l	0.49	240.1	450000	45	P	
47	**Ti**	2	**0.007**	ug/l	0.04	58.4	4500	103	P	
51	**V**	2	**-0.020**	ug/l	-0.10	163.9	4500	103	P	
52	**Cr**	2	**0.000**	ug/l	0.00	9885.1	4500	103	P	
54	**Fe**	1	**0.185**	ug/l	0.92	230.4	450000	74	P	
55	**Mn**	2	**-0.001**	ug/l	-0.01	722.1	4500	103	P	
59	**Co**	2	**0.000**	ug/l	0.00	611.3	4500	103	P	
60	**Ni**	2	**0.018**	ug/l	0.09	328.8	4500	103	P	
63	**Cu**	2	**0.009**	ug/l	0.05	202.1	4500	103	P	
66	**Zn**	2	**-0.053**	ug/l	-0.27	53.0	4500	103	P	
75	**As**	2	**-0.027**	ug/l	-0.13	46.6	4500	103	P	
78	**Se**	1	**0.000**	ug/l	0.00	5590.9	450	74	P	
88	**Sr**	3	**0.006**	ug/l	0.03	39.9	4500	103	P	
95	**Mo**	3	**0.001**	ug/l	0.01	440.3	4500	103	P	
107	**Ag**	3	**0.001**	ug/l	0.01	58.1	450	103	P	
111	**Cd**	3	**0.011**	ug/l	0.05	8.0	900	103	P	
118	**Sn**	3	**0.008**	ug/l	0.04	57.6	4500	103	P	
121	**Sb**	3	**0.009**	ug/l	0.05	57.6	4500	103	P	
135	**Ba**	3	**0.010**	ug/l	0.05	45.0	4500	103	P	
200	**Hg**	3	**0.006**	ug/l	0.03	39.6	45	209	P	
205	**Tl**	3	**0.070**	ug/l	0.35	8.3	4500	209	P	
208	**Pb**	3	**0.001**	ug/l	0.01	70.0	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.01	67.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6179938	1.52	6427000	**96.2**	30	-	120	
45	Sc	1	504737	0.85	475200	**106.2**	30	-	120	
45	Sc	2	271925	1.17	257900	**105.4**	30	-	120	
74	Ge	1	376633	0.75	351800	**107.1**	30	-	120	
74	Ge	2	409515	0.33	387700	**105.6**	30	-	120	
74	Ge	3	1601668	0.90	1596000	**100.4**	30	-	120	
103	Rh	2	806939	1.35	769800	**104.8**	30	-	120	
103	Rh	3	1402004	1.08	1405000	**99.8**	30	-	120	
165	Ho	3	2870476	0.73	2763000	**103.9**	30	-	120	
175	Lu	3	3216402	0.78	3025000	**106.3**	30	-	120	
209	Bi	3	6738794	0.66	6362000	**105.9**	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\052410A.B\029SMPL.D\029SMPL.D#
Date Acquired: May 24 2010 10:25 am Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64088/20-A 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	**2.024**	ug/l	101.20	2.4	450	6	P	
23	**Na**	2	**350.900**	ug/l	17,545.00	1.9	450000	103	P	
24	**Mg**	2	**389.400**	ug/l	19,470.00	1.9	450000	103	P	
27	**Al**	2	**74.490**	ug/l	3,724.50	1.7	450000	103	P	
31	**P**	2	**348.400**	ug/l	17,420.00	5.0	450000	103	P	
39	**K**	2	**384.600**	ug/l	19,230.00	1.2	450000	103	P	
40	**Ca**	1	**424.600**	ug/l	21,230.00	0.6	450000	45	P	
47	**Ti**	2	**89.280**	ug/l	4,464.00	1.5	4500	103	P	
51	**V**	2	**18.720**	ug/l	936.00	2.8	4500	103	P	
52	**Cr**	2	**7.327**	ug/l	366.35	1.9	4500	103	P	
54	**Fe**	1	**450.200**	ug/l	22,510.00	1.3	450000	74	P	
55	**Mn**	2	**18.940**	ug/l	947.00	0.8	4500	103	P	
59	**Co**	2	**19.000**	ug/l	950.00	0.8	4500	103	P	
60	**Ni**	2	**18.630**	ug/l	931.50	1.3	4500	103	P	
63	**Cu**	2	**9.646**	ug/l	482.30	1.1	4500	103	P	
66	**Zn**	2	**18.520**	ug/l	926.00	3.4	4500	103	P	
75	**As**	2	**74.910**	ug/l	3,745.50	0.6	4500	103	P	
78	**Se**	1	**78.370**	ug/l	3,918.50	2.0	450	74	P	
88	**Sr**	3	**-0.002**	ug/l	-0.11	92.1	4500	103	P	
95	**Mo**	3	**97.820**	ug/l	4,891.00	3.2	4500	103	P	
107	**Ag**	3	**12.240**	ug/l	612.00	1.2	450	103	P	
111	**Cd**	3	**2.071**	ug/l	103.55	3.4	900	103	P	
118	**Sn**	3	**103.900**	ug/l	5,195.00	4.3	4500	103	P	
121	**Sb**	3	**59.370**	ug/l	2,968.50	2.7	4500	103	P	
135	**Ba**	3	**81.710**	ug/l	4,085.50	1.7	4500	103	P	
200	**Hg**	3	**0.972**	ug/l	48.62	1.1	45	209	P	
205	**Tl**	3	**77.800**	ug/l	3,890.00	4.2	4500	209	A	
208	**Pb**	3	**20.170**	ug/l	1,008.50	2.5	4500	209	P	
238	**U**	3	**0.000**	ug/l	-0.01	53.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6020070	1.19	6427000	**93.7**	30	-	120	
45	Sc	1	495665	1.54	475200	**104.3**	30	-	120	
45	Sc	2	267026	0.34	257900	**103.5**	30	-	120	
74	Ge	1	368938	1.66	351800	**104.9**	30	-	120	
74	Ge	2	402838	0.94	387700	**103.9**	30	-	120	
74	Ge	3	1599640	1.33	1596000	**100.2**	30	-	120	
103	Rh	2	796413	1.04	769800	**103.5**	30	-	120	
103	Rh	3	1403155	0.96	1405000	**99.9**	30	-	120	
165	Ho	3	2920715	0.83	2763000	**105.7**	30	-	120	
175	Lu	3	3243114	0.95	3025000	**107.2**	30	-	120	
209	Bi	3	6721066	0.86	6362000	**105.6**	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\052410A.B\030SMPL.D\030SMPL.D#
Date Acquired: May 24 2010 10:31 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64088/21-A 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	**2.003**	ug/l	100.15	2.9	450	6	P	
23	**Na**	2	**354.300**	ug/l	17,715.00	0.6	450000	103	P	
24	**Mg**	2	**397.700**	ug/l	19,885.00	1.7	450000	103	P	
27	**Al**	2	**75.020**	ug/l	3,751.00	1.9	450000	103	P	
31	**P**	2	**369.700**	ug/l	18,485.00	3.1	450000	103	P	
39	**K**	2	**395.000**	ug/l	19,750.00	1.3	450000	103	P	
40	**Ca**	1	**426.400**	ug/l	21,320.00	0.9	450000	45	P	
47	**Ti**	2	**90.510**	ug/l	4,525.50	0.2	4500	103	P	
51	**V**	2	**18.880**	ug/l	944.00	2.1	4500	103	P	
52	**Cr**	2	**7.623**	ug/l	381.15	0.7	4500	103	P	
54	**Fe**	1	**445.300**	ug/l	22,265.00	0.3	450000	74	P	
55	**Mn**	2	**19.260**	ug/l	963.00	0.9	4500	103	P	
59	**Co**	2	**19.020**	ug/l	951.00	0.3	4500	103	P	
60	**Ni**	2	**18.800**	ug/l	940.00	1.5	4500	103	P	
63	**Cu**	2	**9.722**	ug/l	486.10	2.0	4500	103	P	
66	**Zn**	2	**19.080**	ug/l	954.00	1.1	4500	103	P	
75	**As**	2	**75.620**	ug/l	3,781.00	1.7	4500	103	P	
78	**Se**	1	**78.560**	ug/l	3,928.00	2.4	450	74	P	
88	**Sr**	3	**-0.002**	ug/l	-0.10	120.6	4500	103	P	
95	**Mo**	3	**96.620**	ug/l	4,831.00	5.2	4500	103	P	
107	**Ag**	3	**12.280**	ug/l	614.00	2.1	450	103	P	
111	**Cd**	3	**2.075**	ug/l	103.75	11.7	900	103	P	
118	**Sn**	3	**103.300**	ug/l	5,165.00	5.1	4500	103	P	
121	**Sb**	3	**58.990**	ug/l	2,949.50	5.3	4500	103	P	
135	**Ba**	3	**82.860**	ug/l	4,143.00	5.4	4500	103	P	
200	**Hg**	3	**0.943**	ug/l	47.15	6.9	45	209	P	
205	**Tl**	3	**78.370**	ug/l	3,918.50	5.4	4500	209	A	
208	**Pb**	3	**19.990**	ug/l	999.50	5.1	4500	209	P	
238	**U**	3	**0.000**	ug/l	-0.01	153.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6056944	1.63	6427000	**94.2**	30	-	120	
45	Sc	1	490886	1.33	475200	**103.3**	30	-	120	
45	Sc	2	268418	1.28	257900	**104.1**	30	-	120	
74	Ge	1	367951	2.62	351800	**104.6**	30	-	120	
74	Ge	2	403849	0.82	387700	**104.2**	30	-	120	
74	Ge	3	1605847	0.84	1596000	**100.6**	30	-	120	
103	Rh	2	786697	0.83	769800	**102.2**	30	-	120	
103	Rh	3	1416700	1.02	1405000	**100.8**	30	-	120	
165	Ho	3	2909724	0.72	2763000	**105.3**	30	-	120	
175	Lu	3	3274401	1.37	3025000	**108.2**	30	-	120	
209	Bi	3	6793209	0.78	6362000	**106.8**	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\052410A.B\031SMPL.D\031SMPL.D#
Date Acquired: May 24 2010 10:37 am Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64088/22-A 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	**1.987**	ug/l	99.35	6.7	450	6	P	
23	**Na**	2	**353.100**	ug/l	17,655.00	1.4	450000	103	P	
24	**Mg**	2	**395.700**	ug/l	19,785.00	1.6	450000	103	P	
27	**Al**	2	**75.290**	ug/l	3,764.50	2.8	450000	103	P	
31	**P**	2	**373.600**	ug/l	18,680.00	3.3	450000	103	P	
39	**K**	2	**389.100**	ug/l	19,455.00	1.0	450000	103	P	
40	**Ca**	1	**430.600**	ug/l	21,530.00	0.3	450000	45	P	
47	**Ti**	2	**90.170**	ug/l	4,508.50	1.9	4500	103	P	
51	**V**	2	**18.780**	ug/l	939.00	2.0	4500	103	P	
52	**Cr**	2	**7.498**	ug/l	374.90	1.3	4500	103	P	
54	**Fe**	1	**441.300**	ug/l	22,065.00	0.9	450000	74	P	
55	**Mn**	2	**19.280**	ug/l	964.00	1.5	4500	103	P	
59	**Co**	2	**19.310**	ug/l	965.50	0.2	4500	103	P	
60	**Ni**	2	**18.720**	ug/l	936.00	1.9	4500	103	P	
63	**Cu**	2	**9.671**	ug/l	483.55	3.9	4500	103	P	
66	**Zn**	2	**19.390**	ug/l	969.50	2.5	4500	103	P	
75	**As**	2	**75.510**	ug/l	3,775.50	0.7	4500	103	P	
78	**Se**	1	**79.280**	ug/l	3,964.00	2.2	450	74	P	
88	**Sr**	3	**0.000**	ug/l	0.01	2630.5	4500	103	P	
95	**Mo**	3	**97.910**	ug/l	4,895.50	4.8	4500	103	P	
107	**Ag**	3	**12.360**	ug/l	618.00	3.0	450	103	P	
111	**Cd**	3	**1.936**	ug/l	96.80	1.8	900	103	P	
118	**Sn**	3	**103.200**	ug/l	5,160.00	4.9	4500	103	P	
121	**Sb**	3	**59.240**	ug/l	2,962.00	5.0	4500	103	P	
135	**Ba**	3	**82.020**	ug/l	4,101.00	4.7	4500	103	P	
200	**Hg**	3	**0.976**	ug/l	48.80	2.1	45	209	P	
205	**Tl**	3	**77.990**	ug/l	3,899.50	4.4	4500	209	A	
208	**Pb**	3	**20.130**	ug/l	1,006.50	4.0	4500	209	P	
238	**U**	3	**0.000**	ug/l	-0.01	410.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6094516	0.96	6427000	**94.8**	30	-	120	
45	Sc	1	498361	2.28	475200	**104.9**	30	-	120	
45	Sc	2	269365	0.60	257900	**104.4**	30	-	120	
74	Ge	1	372570	2.37	351800	**105.9**	30	-	120	
74	Ge	2	402216	0.98	387700	**103.7**	30	-	120	
74	Ge	3	1611508	0.63	1596000	**101.0**	30	-	120	
103	Rh	2	791014	0.99	769800	**102.8**	30	-	120	
103	Rh	3	1412789	0.46	1405000	**100.6**	30	-	120	
165	Ho	3	2957358	1.03	2763000	**107.0**	30	-	120	
175	Lu	3	3283084	0.33	3025000	**108.5**	30	-	120	
209	Bi	3	6768163	0.41	6362000	**106.4**	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\052410A.B\032SMPL.D\032SMPL.D#
Date Acquired: May 24 2010 10:43 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	**50.830**	ug/l	50.83	4.9	450	6	P	
23	**Na**	2	**4959.000**	ug/l	4,959.00	2.0	450000	103	A	
24	**Mg**	2	**4841.000**	ug/l	4,841.00	2.0	450000	103	A	
27	**Al**	2	**493.100**	ug/l	493.10	0.8	450000	103	P	
31	**P**	2	**4841.000**	ug/l	4,841.00	2.1	450000	103	P	
39	**K**	2	**4998.000**	ug/l	4,998.00	2.3	450000	103	A	
40	**Ca**	1	**5088.000**	ug/l	5,088.00	1.3	450000	45	A	
47	**Ti**	2	**48.410**	ug/l	48.41	3.1	4500	103	P	
51	**V**	2	**48.480**	ug/l	48.48	0.8	4500	103	P	
52	**Cr**	2	**48.220**	ug/l	48.22	0.3	4500	103	P	
54	**Fe**	1	**5018.000**	ug/l	5,018.00	1.0	450000	74	P	
55	**Mn**	2	**49.570**	ug/l	49.57	0.7	4500	103	P	
59	**Co**	2	**48.640**	ug/l	48.64	0.6	4500	103	P	
60	**Ni**	2	**48.200**	ug/l	48.20	1.2	4500	103	P	
63	**Cu**	2	**48.570**	ug/l	48.57	0.7	4500	103	P	
66	**Zn**	2	**48.950**	ug/l	48.95	1.5	4500	103	P	
75	**As**	2	**48.650**	ug/l	48.65	1.8	4500	103	P	
78	**Se**	1	**49.100**	ug/l	49.10	1.9	450	74	P	
88	**Sr**	3	**48.750**	ug/l	48.75	5.0	4500	103	P	
95	**Mo**	3	**49.190**	ug/l	49.19	6.3	4500	103	P	
107	**Ag**	3	**50.140**	ug/l	50.14	2.3	450	103	P	
111	**Cd**	3	**49.760**	ug/l	49.76	6.6	900	103	P	
118	**Sn**	3	**49.780**	ug/l	49.78	5.1	4500	103	P	
121	**Sb**	3	**50.680**	ug/l	50.68	4.5	4500	103	P	
135	**Ba**	3	**50.310**	ug/l	50.31	5.6	4500	103	P	
200	**Hg**	3	**2.485**	ug/l	2.49	3.7	45	209	P	
205	**Tl**	3	**49.700**	ug/l	49.70	4.3	4500	209	P	
208	**Pb**	3	**49.950**	ug/l	49.95	3.4	4500	209	P	
238	**U**	3	**49.710**	ug/l	49.71	4.7	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6273959	0.82	6427000	**97.6**	30	-	120	
45	Sc	1	501914	1.59	475200	**105.6**	30	-	120	
45	Sc	2	276963	0.13	257900	**107.4**	30	-	120	
74	Ge	1	378088	0.89	351800	**107.5**	30	-	120	
74	Ge	2	416940	1.23	387700	**107.5**	30	-	120	
74	Ge	3	1642023	0.79	1596000	**102.9**	30	-	120	
103	Rh	2	786931	0.75	769800	**102.2**	30	-	120	
103	Rh	3	1438629	0.31	1405000	**102.4**	30	-	120	
165	Ho	3	2937476	0.69	2763000	**106.3**	30	-	120	
175	Lu	3	3293604	2.43	3025000	**108.9**	30	-	120	
209	Bi	3	6691370	1.27	6362000	**105.2**	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\052410A.B\033SMPL.D\033SMPL.D#
Date Acquired: May 24 2010 10:49 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	94.6	450	6	P	
23	**Na**	2	**-53.420**	ug/l	-53.42	1.1	450000	103	P	
24	**Mg**	2	**0.195**	ug/l	0.20	14.0	450000	103	P	
27	**Al**	2	**-0.185**	ug/l	-0.19	65.6	450000	103	P	
31	**P**	2	**-5.802**	ug/l	-5.80	87.3	450000	103	P	
39	**K**	2	**-1.428**	ug/l	-1.43	130.5	450000	103	P	
40	**Ca**	1	**0.195**	ug/l	0.19	61.4	450000	45	P	
47	**Ti**	2	**0.002**	ug/l	0.00	350.3	4500	103	P	
51	**V**	2	**-0.036**	ug/l	-0.04	93.4	4500	103	P	
52	**Cr**	2	**0.004**	ug/l	0.00	585.7	4500	103	P	
54	**Fe**	1	**-0.212**	ug/l	-0.21	174.5	450000	74	P	
55	**Mn**	2	**0.000**	ug/l	0.00	806.1	4500	103	P	
59	**Co**	2	**0.001**	ug/l	0.00	41.0	4500	103	P	
60	**Ni**	2	**0.025**	ug/l	0.02	136.4	4500	103	P	
63	**Cu**	2	**-0.011**	ug/l	-0.01	161.9	4500	103	P	
66	**Zn**	2	**-0.040**	ug/l	-0.04	50.5	4500	103	P	
75	**As**	2	**-0.028**	ug/l	-0.03	101.1	4500	103	P	
78	**Se**	1	**0.000**	ug/l	0.00	3939.4	450	74	P	
88	**Sr**	3	**0.000**	ug/l	0.00	7546.3	4500	103	P	
95	**Mo**	3	**0.012**	ug/l	0.01	46.8	4500	103	P	
107	**Ag**	3	**0.001**	ug/l	0.00	165.9	450	103	P	
111	**Cd**	3	**0.007**	ug/l	0.01	104.4	900	103	P	
118	**Sn**	3	**0.041**	ug/l	0.04	14.0	4500	103	P	
121	**Sb**	3	**0.020**	ug/l	0.02	19.5	4500	103	P	
135	**Ba**	3	**0.007**	ug/l	0.01	228.0	4500	103	P	
200	**Hg**	3	**0.012**	ug/l	0.01	30.9	45	209	P	
205	**Tl**	3	**0.475**	ug/l	0.48	5.3	4500	209	P	
208	**Pb**	3	**0.004**	ug/l	0.00	15.6	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.00	9.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6286385	2.63	6427000	**97.8**	30	-	120	
45	Sc	1	503108	0.70	475200	**105.9**	30	-	120	
45	Sc	2	276589	1.04	257900	**107.2**	30	-	120	
74	Ge	1	376868	1.49	351800	**107.1**	30	-	120	
74	Ge	2	417274	0.39	387700	**107.6**	30	-	120	
74	Ge	3	1640776	0.69	1596000	**102.8**	30	-	120	
103	Rh	2	817702	1.04	769800	**106.2**	30	-	120	
103	Rh	3	1481155	1.32	1405000	**105.4**	30	-	120	
165	Ho	3	2984011	1.42	2763000	**108.0**	30	-	120	
175	Lu	3	3324920	0.73	3025000	**109.9**	30	-	120	
209	Bi	3	6918212	0.85	6362000	**108.7**	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\052410A.B\034SMPL.D\034SMPL.D#
Date Acquired: May 24 2010 10:55 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-1-A SD 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.D#

Tune #	Name
1	ı\1\7500\h2.u
2	ı\1\7500\he.u
3	,7500\nogas.u

Dilution Factor: **25.00** Final Dil Factor: **25.00**

QC Elements

Element		T#	Conc.	Units	Corr. Conc	RSD(%)	LDR	IS	P/A	Flag
9	**Be**	3	**0.001**	ug/l	0.02	60.0	450	6	P	
23	**Na**	2	**-2.102**	ug/l	-52.55	120.3	450000	103	P	
24	**Mg**	2	**2193.000**	ug/l	54,825.00	1.1	450000	103	A	
27	**Al**	2	**4.838**	ug/l	120.95	6.3	450000	103	P	
31	**P**	2	**-5.980**	ug/l	-149.50	75.5	450000	103	P	
39	**K**	2	**8.811**	ug/l	220.28	11.6	450000	103	P	
40	**Ca**	1	**74.850**	ug/l	1,871.25	1.4	450000	45	P	
47	**Ti**	2	**0.015**	ug/l	0.36	60.5	4500	103	P	
51	**V**	2	**-0.068**	ug/l	-1.71	39.5	4500	103	P	
52	**Cr**	2	**0.537**	ug/l	13.42	4.5	4500	103	P	
54	**Fe**	1	**2.589**	ug/l	64.73	16.7	450000	74	P	
55	**Mn**	2	**0.097**	ug/l	2.41	1.0	4500	103	P	
59	**Co**	2	**0.010**	ug/l	0.25	15.7	4500	103	P	
60	**Ni**	2	**0.092**	ug/l	2.29	62.2	4500	103	P	
63	**Cu**	2	**-0.027**	ug/l	-0.67	47.1	4500	103	P	
66	**Zn**	2	**0.167**	ug/l	4.16	55.2	4500	103	P	
75	**As**	2	**-0.068**	ug/l	-1.70	13.6	4500	103	P	
78	**Se**	1	**-0.001**	ug/l	-0.01	2042.7	450	74	P	
88	**Sr**	3	**0.354**	ug/l	8.84	11.4	4500	103	P	
95	**Mo**	3	**-0.002**	ug/l	-0.05	232.9	4500	103	P	
107	**Ag**	3	**0.001**	ug/l	0.04	122.7	450	103	P	
111	**Cd**	3	**0.005**	ug/l	0.12	283.6	900	103	P	
118	**Sn**	3	**0.021**	ug/l	0.51	32.1	4500	103	P	
121	**Sb**	3	**0.010**	ug/l	0.25	39.5	4500	103	P	
135	**Ba**	3	**0.182**	ug/l	4.55	21.9	4500	103	P	
200	**Hg**	3	**0.015**	ug/l	0.37	15.5	45	209	P	
205	**Tl**	3	**0.231**	ug/l	5.78	9.1	4500	209	P	
208	**Pb**	3	**0.013**	ug/l	0.33	23.3	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.02	113.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6766891	0.79	6427000	**105.3**	30	-	120	
45	Sc	1	524119	1.82	475200	**110.3**	30	-	120	
45	Sc	2	287193	1.50	257900	**111.4**	30	-	120	
74	Ge	1	399096	3.20	351800	**113.4**	30	-	120	
74	Ge	2	432602	0.53	387700	**111.6**	30	-	120	
74	Ge	3	1728077	0.37	1596000	**108.3**	30	-	120	
103	Rh	2	834359	0.82	769800	**108.4**	30	-	120	
103	Rh	3	1508209	1.52	1405000	**107.3**	30	-	120	
165	Ho	3	2979782	2.13	2763000	**107.8**	30	-	120	
175	Lu	3	3413336	0.45	3025000	**112.8**	30	-	120	
209	Bi	3	6960078	0.38	6362000	**109.4**	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\052410A.B\035SMPL.D\035SMPL.D#
Date Acquired: May 24 2010 11:01 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-1-A 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	16867.0	450	6	P	
23	**Na**	2	**179.600**	ug/l	898.00	4.6	450000	103	P	
24	**Mg**	2	**10440.000**	ug/l	52,200.00	1.2	450000	103	A	
27	**Al**	2	**10.990**	ug/l	54.95	10.0	450000	103	P	
31	**P**	2	**-1.417**	ug/l	-7.09	323.9	450000	103	P	
39	**K**	2	**72.110**	ug/l	360.55	1.1	450000	103	P	
40	**Ca**	1	**352.400**	ug/l	1,762.00	0.9	450000	45	P	
47	**Ti**	2	**0.051**	ug/l	0.25	49.5	4500	103	P	
51	**V**	2	**1.015**	ug/l	5.08	6.7	4500	103	P	
52	**Cr**	2	**2.761**	ug/l	13.81	3.1	4500	103	P	
54	**Fe**	1	**16.940**	ug/l	84.70	2.9	450000	74	P	
55	**Mn**	2	**0.446**	ug/l	2.23	5.3	4500	103	P	
59	**Co**	2	**0.051**	ug/l	0.25	2.8	4500	103	P	
60	**Ni**	2	**0.673**	ug/l	3.36	5.5	4500	103	P	
63	**Cu**	2	**0.036**	ug/l	0.18	50.9	4500	103	P	
66	**Zn**	2	**0.386**	ug/l	1.93	11.3	4500	103	P	
75	**As**	2	**0.164**	ug/l	0.82	24.6	4500	103	P	
78	**Se**	1	**0.040**	ug/l	0.20	104.5	450	74	P	
88	**Sr**	3	**1.676**	ug/l	8.38	4.6	4500	103	P	
95	**Mo**	3	**0.010**	ug/l	0.05	127.3	4500	103	P	
107	**Ag**	3	**0.002**	ug/l	0.01	32.6	450	103	P	
111	**Cd**	3	**0.011**	ug/l	0.05	169.0	900	103	P	
118	**Sn**	3	**0.035**	ug/l	0.17	10.8	4500	103	P	
121	**Sb**	3	**0.013**	ug/l	0.07	8.4	4500	103	P	
135	**Ba**	3	**0.629**	ug/l	3.14	15.0	4500	103	P	
200	**Hg**	3	**0.012**	ug/l	0.06	25.9	45	209	P	
205	**Tl**	3	**0.163**	ug/l	0.81	7.5	4500	209	P	
208	**Pb**	3	**0.038**	ug/l	0.19	13.8	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.01	52.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6401844	1.17	6427000	**99.6**	30	-	120	
45	Sc	1	491073	0.78	475200	**103.3**	30	-	120	
45	Sc	2	293741	0.70	257900	**113.9**	30	-	120	
74	Ge	1	369786	0.28	351800	**105.1**	30	-	120	
74	Ge	2	434630	0.58	387700	**112.1**	30	-	120	
74	Ge	3	1699725	2.00	1596000	**106.5**	30	-	120	
103	Rh	2	811550	1.29	769800	**105.4**	30	-	120	
103	Rh	3	1473858	1.53	1405000	**104.9**	30	-	120	
165	Ho	3	3016742	1.63	2763000	**109.2**	30	-	120	
175	Lu	3	3379385	0.23	3025000	**111.7**	30	-	120	
209	Bi	3	6810341	0.39	6362000	**107.0**	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\052410A.B\036SMPL.D\036SMPL.D#
Date Acquired: May 24 2010 11:07 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-1-B DU 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	5.6	450	6	P	
23	**Na**	2	**180.800**	ug/l	904.00	3.6	450000	103	P	
24	**Mg**	2	**10540.000**	ug/l	52,700.00	0.9	450000	103	A	
27	**Al**	2	**6.619**	ug/l	33.10	9.9	450000	103	P	
31	**P**	2	**-2.886**	ug/l	-14.43	119.7	450000	103	P	
39	**K**	2	**71.630**	ug/l	358.15	2.5	450000	103	P	
40	**Ca**	1	**350.300**	ug/l	1,751.50	1.1	450000	45	P	
47	**Ti**	2	**0.028**	ug/l	0.14	32.6	4500	103	P	
51	**V**	2	**1.303**	ug/l	6.52	12.1	4500	103	P	
52	**Cr**	2	**2.825**	ug/l	14.13	4.1	4500	103	P	
54	**Fe**	1	**16.880**	ug/l	84.40	9.7	450000	74	P	
55	**Mn**	2	**0.444**	ug/l	2.22	8.3	4500	103	P	
59	**Co**	2	**0.050**	ug/l	0.25	15.2	4500	103	P	
60	**Ni**	2	**0.794**	ug/l	3.97	10.4	4500	103	P	
63	**Cu**	2	**0.033**	ug/l	0.17	47.0	4500	103	P	
66	**Zn**	2	**0.383**	ug/l	1.91	44.1	4500	103	P	
75	**As**	2	**0.221**	ug/l	1.11	11.4	4500	103	P	
78	**Se**	1	**0.000**	ug/l	0.00	8884.0	450	74	P	
88	**Sr**	3	**1.638**	ug/l	8.19	5.2	4500	103	P	
95	**Mo**	3	**-0.002**	ug/l	-0.01	410.3	4500	103	P	
107	**Ag**	3	**0.002**	ug/l	0.01	92.1	450	103	P	
111	**Cd**	3	**0.013**	ug/l	0.06	119.6	900	103	P	
118	**Sn**	3	**0.030**	ug/l	0.15	3.1	4500	103	P	
121	**Sb**	3	**0.015**	ug/l	0.07	31.1	4500	103	P	
135	**Ba**	3	**0.682**	ug/l	3.41	4.1	4500	103	P	
200	**Hg**	3	**0.009**	ug/l	0.04	26.5	45	209	P	
205	**Tl**	3	**0.113**	ug/l	0.56	13.9	4500	209	P	
208	**Pb**	3	**0.036**	ug/l	0.18	7.4	4500	209	P	
238	**U**	3	**0.003**	ug/l	0.01	55.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6495824	1.83	6427000	**101.1**	30	-	120	
45	Sc	1	485616	0.23	475200	**102.2**	30	-	120	
45	Sc	2	289277	0.64	257900	**112.2**	30	-	120	
74	Ge	1	359912	1.51	351800	**102.3**	30	-	120	
74	Ge	2	430248	0.91	387700	**111.0**	30	-	120	
74	Ge	3	1686937	1.96	1596000	**105.7**	30	-	120	
103	Rh	2	800995	1.10	769800	**104.1**	30	-	120	
103	Rh	3	1468501	0.82	1405000	**104.5**	30	-	120	
165	Ho	3	3000296	0.66	2763000	**108.6**	30	-	120	
175	Lu	3	3342609	0.82	3025000	**110.5**	30	-	120	
209	Bi	3	6778422	0.71	6362000	**106.5**	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\052410A.B\037SMPL.D\037SMPL.D#
Date Acquired: May 24 2010 11:13 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-1-C MS 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	2.6	450	6	P	
23	**Na**	2	**418.300**	ug/l	20,915.00	2.8	450000	103	P	
24	**Mg**	2	**1413.000**	ug/l	70,650.00	1.0	450000	103	P	
27	**Al**	2	**81.140**	ug/l	4,057.00	0.9	450000	103	P	
31	**P**	2	**391.700**	ug/l	19,585.00	4.8	450000	103	P	
39	**K**	2	**433.800**	ug/l	21,690.00	0.7	450000	103	P	
40	**Ca**	1	**469.300**	ug/l	23,465.00	1.1	450000	45	P	
47	**Ti**	2	**96.930**	ug/l	4,846.50	0.9	4500	103	P	
51	**V**	2	**19.120**	ug/l	956.00	1.7	4500	103	P	
52	**Cr**	2	**7.865**	ug/l	393.25	1.2	4500	103	P	
54	**Fe**	1	**449.100**	ug/l	22,455.00	0.7	450000	74	P	
55	**Mn**	2	**19.770**	ug/l	988.50	1.6	4500	103	P	
59	**Co**	2	**19.350**	ug/l	967.50	0.8	4500	103	P	
60	**Ni**	2	**19.240**	ug/l	962.00	2.0	4500	103	P	
63	**Cu**	2	**9.704**	ug/l	485.20	2.3	4500	103	P	
66	**Zn**	2	**19.400**	ug/l	970.00	1.1	4500	103	P	
75	**As**	2	**72.310**	ug/l	3,615.50	0.9	4500	103	P	
78	**Se**	1	**76.520**	ug/l	3,826.00	1.5	450	74	P	
88	**Sr**	3	**0.157**	ug/l	7.86	1.2	4500	103	P	
95	**Mo**	3	**101.000**	ug/l	5,050.00	2.6	4500	103	P	
107	**Ag**	3	**12.200**	ug/l	610.00	2.2	450	103	P	
111	**Cd**	3	**2.040**	ug/l	102.00	6.2	900	103	P	
118	**Sn**	3	**106.700**	ug/l	5,335.00	1.3	4500	103	P	
121	**Sb**	3	**58.100**	ug/l	2,905.00	1.2	4500	103	P	
135	**Ba**	3	**80.830**	ug/l	4,041.50	1.7	4500	103	P	
200	**Hg**	3	**0.945**	ug/l	47.26	4.2	45	209	P	
205	**Tl**	3	**80.020**	ug/l	4,001.00	0.9	4500	209	A	
208	**Pb**	3	**20.320**	ug/l	1,016.00	2.2	4500	209	P	
238	**U**	3	**0.000**	ug/l	0.00	607.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7209281	0.38	6427000	**112.2**	30	-	120	
45	Sc	1	517513	2.39	475200	**108.9**	30	-	120	
45	Sc	2	288605	1.35	257900	**111.9**	30	-	120	
74	Ge	1	385631	1.89	351800	**109.6**	30	-	120	
74	Ge	2	426123	1.19	387700	**109.9**	30	-	120	
74	Ge	3	1701955	0.38	1596000	**106.6**	30	-	120	
103	Rh	2	810497	1.21	769800	**105.3**	30	-	120	
103	Rh	3	1482760	1.41	1405000	**105.5**	30	-	120	
165	Ho	3	2957867	0.92	2763000	**107.1**	30	-	120	
175	Lu	3	3301924	0.37	3025000	**109.2**	30	-	120	
209	Bi	3	6767229	1.70	6362000	**106.4**	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\052410A.B\038SMPL.D\038SMPL.D#
Date Acquired: May 24 2010 11:20 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-1-D MSD 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	**1.939**	ug/l	96.95	3.8	450	6	P	
23	**Na**	2	**418.600**	ug/l	20,930.00	0.2	450000	103	P	
24	**Mg**	2	**1401.000**	ug/l	70,050.00	1.1	450000	103	P	
27	**Al**	2	**89.610**	ug/l	4,480.50	0.1	450000	103	P	
31	**P**	2	**402.100**	ug/l	20,105.00	1.9	450000	103	P	
39	**K**	2	**432.300**	ug/l	21,615.00	1.5	450000	103	P	
40	**Ca**	1	**474.400**	ug/l	23,720.00	1.0	450000	45	P	
47	**Ti**	2	**96.600**	ug/l	4,830.00	1.6	4500	103	P	
51	**V**	2	**18.980**	ug/l	949.00	1.4	4500	103	P	
52	**Cr**	2	**7.977**	ug/l	398.85	3.2	4500	103	P	
54	**Fe**	1	**451.800**	ug/l	22,590.00	1.4	450000	74	P	
55	**Mn**	2	**19.840**	ug/l	992.00	0.8	4500	103	P	
59	**Co**	2	**19.590**	ug/l	979.50	0.7	4500	103	P	
60	**Ni**	2	**19.360**	ug/l	968.00	2.3	4500	103	P	
63	**Cu**	2	**9.642**	ug/l	482.10	1.1	4500	103	P	
66	**Zn**	2	**19.580**	ug/l	979.00	0.7	4500	103	P	
75	**As**	2	**73.040**	ug/l	3,652.00	0.9	4500	103	P	
78	**Se**	1	**76.680**	ug/l	3,834.00	1.8	450	74	P	
88	**Sr**	3	**0.151**	ug/l	7.56	8.7	4500	103	P	
95	**Mo**	3	**99.740**	ug/l	4,987.00	4.4	4500	103	P	
107	**Ag**	3	**12.270**	ug/l	613.50	3.3	450	103	P	
111	**Cd**	3	**2.076**	ug/l	103.80	4.9	900	103	P	
118	**Sn**	3	**103.300**	ug/l	5,165.00	5.9	4500	103	P	
121	**Sb**	3	**57.820**	ug/l	2,891.00	4.4	4500	103	P	
135	**Ba**	3	**79.130**	ug/l	3,956.50	2.8	4500	103	P	
200	**Hg**	3	**0.951**	ug/l	47.56	5.6	45	209	P	
205	**Tl**	3	**79.130**	ug/l	3,956.50	0.8	4500	209	A	
208	**Pb**	3	**20.090**	ug/l	1,004.50	3.7	4500	209	P	
238	**U**	3	**0.000**	ug/l	-0.01	387.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7101154	2.13	6427000	**110.5**	30	-	120	
45	Sc	1	535337	1.11	475200	**112.7**	30	-	120	
45	Sc	2	289930	1.81	257900	**112.4**	30	-	120	
74	Ge	1	399518	2.02	351800	**113.6**	30	-	120	
74	Ge	2	431729	2.17	387700	**111.4**	30	-	120	
74	Ge	3	1740984	1.16	1596000	**109.1**	30	-	120	
103	Rh	2	821970	1.12	769800	**106.8**	30	-	120	
103	Rh	3	1519348	1.72	1405000	**108.1**	30	-	120	
165	Ho	3	2966918	0.57	2763000	**107.4**	30	-	120	
175	Lu	3	3288602	1.05	3025000	**108.7**	30	-	120	
209	Bi	3	6822928	0.55	6362000	**107.2**	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\052410A.B\039SMPL.D\039SMPL.D#
Date Acquired: May 24 2010 11:26 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-1-A PDS 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	6.7	450	6	P	
23	**Na**	2	**425.600**	ug/l	21,280.00	1.2	450000	103	P	
24	**Mg**	2	**1438.000**	ug/l	71,900.00	1.0	450000	103	P	
27	**Al**	2	**83.680**	ug/l	4,184.00	2.2	450000	103	P	
31	**P**	2	**406.600**	ug/l	20,330.00	1.8	450000	103	P	
39	**K**	2	**443.700**	ug/l	22,185.00	1.3	450000	103	P	
40	**Ca**	1	**494.100**	ug/l	24,705.00	1.9	450000	45	P	
47	**Ti**	2	**101.000**	ug/l	5,050.00	0.9	4500	103	P	
51	**V**	2	**19.460**	ug/l	973.00	2.2	4500	103	P	
52	**Cr**	2	**8.173**	ug/l	408.65	1.0	4500	103	P	
54	**Fe**	1	**474.600**	ug/l	23,730.00	1.3	450000	74	P	
55	**Mn**	2	**20.450**	ug/l	1,022.50	0.4	4500	103	P	
59	**Co**	2	**20.130**	ug/l	1,006.50	0.8	4500	103	P	
60	**Ni**	2	**19.940**	ug/l	997.00	1.4	4500	103	P	
63	**Cu**	2	**10.130**	ug/l	506.50	0.2	4500	103	P	
66	**Zn**	2	**19.890**	ug/l	994.50	2.4	4500	103	P	
75	**As**	2	**75.750**	ug/l	3,787.50	0.8	4500	103	P	
78	**Se**	1	**78.740**	ug/l	3,937.00	0.7	450	74	P	
88	**Sr**	3	**0.172**	ug/l	8.60	8.1	4500	103	P	
95	**Mo**	3	**103.000**	ug/l	5,150.00	3.7	4500	103	P	
107	**Ag**	3	**12.770**	ug/l	638.50	1.3	450	103	P	
111	**Cd**	3	**2.029**	ug/l	101.45	5.8	900	103	P	
118	**Sn**	3	**107.900**	ug/l	5,395.00	4.7	4500	103	P	
121	**Sb**	3	**60.250**	ug/l	3,012.50	3.4	4500	103	P	
135	**Ba**	3	**82.130**	ug/l	4,106.50	2.6	4500	103	P	
200	**Hg**	3	**0.981**	ug/l	49.05	1.8	45	209	P	
205	**Tl**	3	**80.940**	ug/l	4,047.00	2.7	4500	209	A	
208	**Pb**	3	**20.440**	ug/l	1,022.00	4.9	4500	209	P	
238	**U**	3	**0.000**	ug/l	-0.01	361.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	7127710	0.11	6427000	**110.9**	30	-	120	
45	Sc	1	539433	1.05	475200	**113.5**	30	-	120	
45	Sc	2	291794	0.54	257900	**113.1**	30	-	120	
74	Ge	1	409545	1.92	351800	**116.4**	30	-	120	
74	Ge	2	438179	1.03	387700	**113.0**	30	-	120	
74	Ge	3	1732466	1.27	1596000	**108.6**	30	-	120	
103	Rh	2	836885	1.15	769800	**108.7**	30	-	120	
103	Rh	3	1516467	0.90	1405000	**107.9**	30	-	120	
165	Ho	3	3057220	1.49	2763000	**110.6**	30	-	120	
175	Lu	3	3373786	0.43	3025000	**111.5**	30	-	120	
209	Bi	3	6980621	0.54	6362000	**109.7**	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\052410A.B\040SMPL.D\040SMPL.D#
Date Acquired: May 24 2010 11:32 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-2-A 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	73.1	450	6	P	
23	**Na**	2	**963.400**	ug/l	4,817.00	1.1	450000	103	A	
24	**Mg**	2	**2850.000**	ug/l	14,250.00	0.4	450000	103	A	
27	**Al**	2	**11.820**	ug/l	59.10	2.5	450000	103	P	
31	**P**	2	**-6.445**	ug/l	-32.23	90.6	450000	103	P	
39	**K**	2	**166.200**	ug/l	831.00	0.1	450000	103	P	
40	**Ca**	1	**4316.000**	ug/l	21,580.00	0.6	450000	45	A	
47	**Ti**	2	**0.181**	ug/l	0.90	6.0	4500	103	P	
51	**V**	2	**0.651**	ug/l	3.26	6.2	4500	103	P	
52	**Cr**	2	**0.095**	ug/l	0.48	10.3	4500	103	P	
54	**Fe**	1	**8.190**	ug/l	40.95	8.0	450000	74	P	
55	**Mn**	2	**1.703**	ug/l	8.52	0.7	4500	103	P	
59	**Co**	2	**0.028**	ug/l	0.14	12.8	4500	103	P	
60	**Ni**	2	**0.275**	ug/l	1.37	24.9	4500	103	P	
63	**Cu**	2	**0.119**	ug/l	0.59	12.4	4500	103	P	
66	**Zn**	2	**0.594**	ug/l	2.97	14.8	4500	103	P	
75	**As**	2	**0.162**	ug/l	0.81	28.9	4500	103	P	
78	**Se**	1	**0.031**	ug/l	0.16	105.9	450	74	P	
88	**Sr**	3	**43.420**	ug/l	217.10	3.5	4500	103	P	
95	**Mo**	3	**0.094**	ug/l	0.47	19.3	4500	103	P	
107	**Ag**	3	**0.000**	ug/l	0.00	430.3	450	103	P	
111	**Cd**	3	**0.010**	ug/l	0.05	77.3	900	103	P	
118	**Sn**	3	**0.205**	ug/l	1.02	11.3	4500	103	P	
121	**Sb**	3	**0.407**	ug/l	2.04	9.4	4500	103	P	
135	**Ba**	3	**11.370**	ug/l	56.85	2.9	4500	103	P	
200	**Hg**	3	**0.016**	ug/l	0.08	10.2	45	209	P	
205	**Tl**	3	**0.065**	ug/l	0.32	16.3	4500	209	P	
208	**Pb**	3	**0.024**	ug/l	0.12	18.8	4500	209	P	
238	**U**	3	**0.005**	ug/l	0.02	35.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6057112	3.64	6427000	**94.2**	30	-	120	
45	Sc	1	511537	1.59	475200	**107.6**	30	-	120	
45	Sc	2	280059	0.62	257900	**108.6**	30	-	120	
74	Ge	1	389149	3.62	351800	**110.6**	30	-	120	
74	Ge	2	428678	0.08	387700	**110.6**	30	-	120	
74	Ge	3	1664395	0.88	1596000	**104.3**	30	-	120	
103	Rh	2	812985	0.48	769800	**105.6**	30	-	120	
103	Rh	3	1474211	0.05	1405000	**104.9**	30	-	120	
165	Ho	3	2979149	1.22	2763000	**107.8**	30	-	120	
175	Lu	3	3339873	0.92	3025000	**110.4**	30	-	120	
209	Bi	3	6848082	0.92	6362000	**107.6**	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\052410A.B\041SMPL.D\041SMPL.D#
Date Acquired: May 24 2010 11:38 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-3-A 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	145.0	450	6	P	
23	**Na**	2	**3499.000**	ug/l	17,495.00	0.9	450000	103	A	
24	**Mg**	2	**6750.000**	ug/l	33,750.00	1.6	450000	103	A	
27	**Al**	2	**5.910**	ug/l	29.55	4.1	450000	103	P	
31	**P**	2	**0.460**	ug/l	2.30	1330.6	450000	103	P	
39	**K**	2	**393.200**	ug/l	1,966.00	0.4	450000	103	P	
40	**Ca**	1	**5449.000**	ug/l	27,245.00	0.9	450000	45	A	
47	**Ti**	2	**0.115**	ug/l	0.57	60.9	4500	103	P	
51	**V**	2	**0.893**	ug/l	4.47	6.4	4500	103	P	
52	**Cr**	2	**0.496**	ug/l	2.48	12.4	4500	103	P	
54	**Fe**	1	**5.063**	ug/l	25.32	30.1	450000	74	P	
55	**Mn**	2	**5.306**	ug/l	26.53	1.2	4500	103	P	
59	**Co**	2	**0.071**	ug/l	0.35	10.8	4500	103	P	
60	**Ni**	2	**0.776**	ug/l	3.88	10.1	4500	103	P	
63	**Cu**	2	**0.219**	ug/l	1.10	28.1	4500	103	P	
66	**Zn**	2	**1.289**	ug/l	6.45	2.0	4500	103	P	
75	**As**	2	**0.304**	ug/l	1.52	9.3	4500	103	P	
78	**Se**	1	**0.205**	ug/l	1.02	46.0	450	74	P	
88	**Sr**	3	**104.500**	ug/l	522.50	1.8	4500	103	A	
95	**Mo**	3	**0.476**	ug/l	2.38	16.4	4500	103	P	
107	**Ag**	3	**0.002**	ug/l	0.01	118.3	450	103	P	
111	**Cd**	3	**0.131**	ug/l	0.66	26.0	900	103	P	
118	**Sn**	3	**0.095**	ug/l	0.47	20.1	4500	103	P	
121	**Sb**	3	**0.303**	ug/l	1.51	4.6	4500	103	P	
135	**Ba**	3	**51.740**	ug/l	258.70	1.2	4500	103	P	
200	**Hg**	3	**0.011**	ug/l	0.06	32.6	45	209	P	
205	**Tl**	3	**0.053**	ug/l	0.26	5.3	4500	209	P	
208	**Pb**	3	**0.050**	ug/l	0.25	10.0	4500	209	P	
238	**U**	3	**0.045**	ug/l	0.23	8.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5914045	0.70	6427000	**92.0**	30	-	120	
45	Sc	1	509707	1.09	475200	**107.3**	30	-	120	
45	Sc	2	285725	0.62	257900	**110.8**	30	-	120	
74	Ge	1	393111	3.29	351800	**111.7**	30	-	120	
74	Ge	2	434107	0.64	387700	**112.0**	30	-	120	
74	Ge	3	1684219	1.11	1596000	**105.5**	30	-	120	
103	Rh	2	815641	1.10	769800	**106.0**	30	-	120	
103	Rh	3	1462180	1.38	1405000	**104.1**	30	-	120	
165	Ho	3	2995515	0.77	2763000	**108.4**	30	-	120	
175	Lu	3	3337948	0.92	3025000	**110.3**	30	-	120	
209	Bi	3	6805018	0.66	6362000	**107.0**	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\052410A.B\042SMPL.D\042SMPL.D#
Date Acquired: May 24 2010 11:44 am Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-4-A 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	258.6	450	6	P	
23	**Na**	2	**5917.000**	ug/l	29,585.00	0.9	450000	103	A	
24	**Mg**	2	**7648.000**	ug/l	38,240.00	2.0	450000	103	A	
27	**Al**	2	**6.003**	ug/l	30.02	4.2	450000	103	P	
31	**P**	2	**3.879**	ug/l	19.40	78.2	450000	103	P	
39	**K**	2	**1317.000**	ug/l	6,585.00	0.9	450000	103	P	
40	**Ca**	1	**7234.000**	ug/l	36,170.00	1.0	450000	45	A	
47	**Ti**	2	**0.055**	ug/l	0.28	65.5	4500	103	P	
51	**V**	2	**1.533**	ug/l	7.67	12.8	4500	103	P	
52	**Cr**	2	**0.181**	ug/l	0.90	10.8	4500	103	P	
54	**Fe**	1	**3.941**	ug/l	19.71	34.1	450000	74	P	
55	**Mn**	2	**4.519**	ug/l	22.60	1.3	4500	103	P	
59	**Co**	2	**0.036**	ug/l	0.18	4.6	4500	103	P	
60	**Ni**	2	**0.344**	ug/l	1.72	10.4	4500	103	P	
63	**Cu**	2	**0.352**	ug/l	1.76	17.8	4500	103	P	
66	**Zn**	2	**3.371**	ug/l	16.86	5.3	4500	103	P	
75	**As**	2	**0.520**	ug/l	2.60	13.0	4500	103	P	
78	**Se**	1	**0.076**	ug/l	0.38	102.0	450	74	P	
88	**Sr**	3	**77.550**	ug/l	387.75	4.4	4500	103	P	
95	**Mo**	3	**0.281**	ug/l	1.41	18.0	4500	103	P	
107	**Ag**	3	**0.004**	ug/l	0.02	51.1	450	103	P	
111	**Cd**	3	**0.237**	ug/l	1.19	39.5	900	103	P	
118	**Sn**	3	**0.127**	ug/l	0.63	11.0	4500	103	P	
121	**Sb**	3	**0.138**	ug/l	0.69	7.9	4500	103	P	
135	**Ba**	3	**9.753**	ug/l	48.77	6.7	4500	103	P	
200	**Hg**	3	**0.008**	ug/l	0.04	74.2	45	209	P	
205	**Tl**	3	**0.046**	ug/l	0.23	10.7	4500	209	P	
208	**Pb**	3	**0.055**	ug/l	0.27	9.0	4500	209	P	
238	**U**	3	**0.082**	ug/l	0.41	10.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5855476	1.42	6427000	**91.1**	30	-	120	
45	Sc	1	514330	1.37	475200	**108.2**	30	-	120	
45	Sc	2	279531	0.53	257900	**108.4**	30	-	120	
74	Ge	1	392911	0.27	351800	**111.7**	30	-	120	
74	Ge	2	424598	0.27	387700	**109.5**	30	-	120	
74	Ge	3	1632992	2.11	1596000	**102.3**	30	-	120	
103	Rh	2	789756	1.31	769800	**102.6**	30	-	120	
103	Rh	3	1415834	0.44	1405000	**100.8**	30	-	120	
165	Ho	3	2942894	2.55	2763000	**106.5**	30	-	120	
175	Lu	3	3310196	1.29	3025000	**109.4**	30	-	120	
209	Bi	3	6695496	1.16	6362000	**105.2**	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\052410A.B\043SMPL.D\043SMPL.D#
Date Acquired: May 24 2010 11:50 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	**50.980**	ug/l	50.98	5.2	450	6	P	
23	**Na**	2	**4813.000**	ug/l	4,813.00	0.9	450000	103	A	
24	**Mg**	2	**4873.000**	ug/l	4,873.00	1.9	450000	103	A	
27	**Al**	2	**492.200**	ug/l	492.20	1.1	450000	103	P	
31	**P**	2	**4854.000**	ug/l	4,854.00	1.1	450000	103	P	
39	**K**	2	**5027.000**	ug/l	5,027.00	2.6	450000	103	A	
40	**Ca**	1	**5188.000**	ug/l	5,188.00	2.1	450000	45	A	
47	**Ti**	2	**49.070**	ug/l	49.07	1.6	4500	103	P	
51	**V**	2	**48.470**	ug/l	48.47	0.4	4500	103	P	
52	**Cr**	2	**48.510**	ug/l	48.51	2.1	4500	103	P	
54	**Fe**	1	**4940.000**	ug/l	4,940.00	2.3	450000	74	P	
55	**Mn**	2	**49.760**	ug/l	49.76	0.6	4500	103	P	
59	**Co**	2	**48.730**	ug/l	48.73	0.7	4500	103	P	
60	**Ni**	2	**48.280**	ug/l	48.28	1.1	4500	103	P	
63	**Cu**	2	**48.760**	ug/l	48.76	1.3	4500	103	P	
66	**Zn**	2	**49.320**	ug/l	49.32	2.0	4500	103	P	
75	**As**	2	**49.720**	ug/l	49.72	0.9	4500	103	P	
78	**Se**	1	**49.410**	ug/l	49.41	1.7	450	74	P	
88	**Sr**	3	**49.570**	ug/l	49.57	4.3	4500	103	P	
95	**Mo**	3	**49.950**	ug/l	49.95	5.0	4500	103	P	
107	**Ag**	3	**50.700**	ug/l	50.70	3.5	450	103	P	
111	**Cd**	3	**51.320**	ug/l	51.32	6.4	900	103	P	
118	**Sn**	3	**51.170**	ug/l	51.17	5.3	4500	103	P	
121	**Sb**	3	**51.460**	ug/l	51.46	5.1	4500	103	P	
135	**Ba**	3	**51.380**	ug/l	51.38	4.4	4500	103	P	
200	**Hg**	3	**2.524**	ug/l	2.52	3.9	45	209	P	
205	**Tl**	3	**49.180**	ug/l	49.18	2.6	4500	209	P	
208	**Pb**	3	**50.150**	ug/l	50.15	2.7	4500	209	P	
238	**U**	3	**49.640**	ug/l	49.64	4.6	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6265410	2.24	6427000	**97.5**	30	-	120	
45	Sc	1	526641	1.80	475200	**110.8**	30	-	120	
45	Sc	2	284775	1.03	257900	**110.4**	30	-	120	
74	Ge	1	402430	2.76	351800	**114.4**	30	-	120	
74	Ge	2	424826	1.27	387700	**109.6**	30	-	120	
74	Ge	3	1695005	1.64	1596000	**106.2**	30	-	120	
103	Rh	2	807604	1.43	769800	**104.9**	30	-	120	
103	Rh	3	1466079	0.91	1405000	**104.3**	30	-	120	
165	Ho	3	2973572	1.62	2763000	**107.6**	30	-	120	
175	Lu	3	3325602	2.70	3025000	**109.9**	30	-	120	
209	Bi	3	6781591	1.15	6362000	**106.6**	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\052410A.B\044SMPL.D\044SMPL.D#
Date Acquired: May 24 2010 11:56 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	54.4	450	6	P	
23	**Na**	2	**-51.710**	ug/l	-51.71	1.2	450000	103	P	
24	**Mg**	2	**0.230**	ug/l	0.23	43.8	450000	103	P	
27	**Al**	2	**-0.078**	ug/l	-0.08	161.0	450000	103	P	
31	**P**	2	**-8.783**	ug/l	-8.78	31.2	450000	103	P	
39	**K**	2	**3.346**	ug/l	3.35	101.5	450000	103	P	
40	**Ca**	1	**0.224**	ug/l	0.22	74.2	450000	45	P	
47	**Ti**	2	**0.002**	ug/l	0.00	372.9	4500	103	P	
51	**V**	2	**0.021**	ug/l	0.02	101.0	4500	103	P	
52	**Cr**	2	**0.002**	ug/l	0.00	877.6	4500	103	P	
54	**Fe**	1	**0.315**	ug/l	0.32	183.5	450000	74	P	
55	**Mn**	2	**0.000**	ug/l	0.00	10047.0	4500	103	P	
59	**Co**	2	**0.001**	ug/l	0.00	120.9	4500	103	P	
60	**Ni**	2	**0.027**	ug/l	0.03	142.1	4500	103	P	
63	**Cu**	2	**-0.004**	ug/l	0.00	345.2	4500	103	P	
66	**Zn**	2	**-0.065**	ug/l	-0.07	54.7	4500	103	P	
75	**As**	2	**-0.008**	ug/l	-0.01	224.8	4500	103	P	
78	**Se**	1	**-0.001**	ug/l	0.00	1141.7	450	74	P	
88	**Sr**	3	**0.001**	ug/l	0.00	983.6	4500	103	P	
95	**Mo**	3	**0.010**	ug/l	0.01	82.2	4500	103	P	
107	**Ag**	3	**0.007**	ug/l	0.01	18.8	450	103	P	
111	**Cd**	3	**0.008**	ug/l	0.01	166.6	900	103	P	
118	**Sn**	3	**0.036**	ug/l	0.04	22.1	4500	103	P	
121	**Sb**	3	**0.047**	ug/l	0.05	23.4	4500	103	P	
135	**Ba**	3	**0.016**	ug/l	0.02	113.8	4500	103	P	
200	**Hg**	3	**0.012**	ug/l	0.01	51.9	45	209	P	
205	**Tl**	3	**0.296**	ug/l	0.30	3.6	4500	209	P	
208	**Pb**	3	**0.004**	ug/l	0.00	102.8	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.00	31.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6285199	1.70	6427000	**97.8**	30	-	120	
45	Sc	1	536080	1.77	475200	**112.8**	30	-	120	
45	Sc	2	291808	2.03	257900	**113.1**	30	-	120	
74	Ge	1	411389	2.10	351800	**116.9**	30	-	120	
74	Ge	2	439039	0.59	387700	**113.2**	30	-	120	
74	Ge	3	1706380	1.62	1596000	**106.9**	30	-	120	
103	Rh	2	839646	1.30	769800	**109.1**	30	-	120	
103	Rh	3	1524202	0.80	1405000	**108.5**	30	-	120	
165	Ho	3	3061906	0.79	2763000	**110.8**	30	-	120	
175	Lu	3	3388530	1.16	3025000	**112.0**	30	-	120	
209	Bi	3	7125308	0.03	6362000	**112.0**	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\052410A.B\045SMPL.D\045SMPL.D#
Date Acquired: May 24 2010 12:02 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-9-A 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	143.5	450	6	P	
23	**Na**	2	**5600.000**	ug/l	28,000.00	1.8	450000	103	A	
24	**Mg**	2	**6558.000**	ug/l	32,790.00	1.9	450000	103	A	
27	**Al**	2	**24.870**	ug/l	124.35	1.9	450000	103	P	
31	**P**	2	**11.260**	ug/l	56.30	18.4	450000	103	P	
39	**K**	2	**1343.000**	ug/l	6,715.00	1.5	450000	103	P	
40	**Ca**	1	**14600.000**	ug/l	73,000.00	1.3	450000	45	A	
47	**Ti**	2	**0.197**	ug/l	0.98	10.8	4500	103	P	
51	**V**	2	**1.073**	ug/l	5.37	5.7	4500	103	P	
52	**Cr**	2	**0.204**	ug/l	1.02	13.5	4500	103	P	
54	**Fe**	1	**28.700**	ug/l	143.50	6.4	450000	74	P	
55	**Mn**	2	**19.330**	ug/l	96.65	0.5	4500	103	P	
59	**Co**	2	**0.139**	ug/l	0.70	7.6	4500	103	P	
60	**Ni**	2	**0.642**	ug/l	3.21	12.1	4500	103	P	
63	**Cu**	2	**0.184**	ug/l	0.92	29.0	4500	103	P	
66	**Zn**	2	**0.952**	ug/l	4.76	20.2	4500	103	P	
75	**As**	2	**0.647**	ug/l	3.24	4.9	4500	103	P	
78	**Se**	1	**0.081**	ug/l	0.40	46.1	450	74	P	
88	**Sr**	3	**126.300**	ug/l	631.50	5.3	4500	103	A	
95	**Mo**	3	**0.478**	ug/l	2.39	10.9	4500	103	P	
107	**Ag**	3	**0.003**	ug/l	0.02	98.7	450	103	P	
111	**Cd**	3	**0.022**	ug/l	0.11	68.5	900	103	P	
118	**Sn**	3	**0.060**	ug/l	0.30	26.2	4500	103	P	
121	**Sb**	3	**0.486**	ug/l	2.43	2.3	4500	103	P	
135	**Ba**	3	**9.754**	ug/l	48.77	2.0	4500	103	P	
200	**Hg**	3	**0.012**	ug/l	0.06	35.1	45	209	P	
205	**Tl**	3	**0.127**	ug/l	0.63	14.0	4500	209	P	
208	**Pb**	3	**0.061**	ug/l	0.31	5.2	4500	209	P	
238	**U**	3	**0.121**	ug/l	0.61	3.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5866421	0.98	6427000	**91.3**	30	-	120	
45	Sc	1	516531	1.85	475200	**108.7**	30	-	120	
45	Sc	2	280290	2.07	257900	**108.7**	30	-	120	
74	Ge	1	395698	2.52	351800	**112.5**	30	-	120	
74	Ge	2	429078	1.21	387700	**110.7**	30	-	120	
74	Ge	3	1644066	1.56	1596000	**103.0**	30	-	120	
103	Rh	2	790583	1.12	769800	**102.7**	30	-	120	
103	Rh	3	1403127	0.34	1405000	**99.9**	30	-	120	
165	Ho	3	2994349	0.98	2763000	**108.4**	30	-	120	
175	Lu	3	3311484	0.54	3025000	**109.5**	30	-	120	
209	Bi	3	6763626	0.26	6362000	**106.3**	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\052410A.B\046SMPL.D\046SMPL.D#
Date Acquired: May 24 2010 12:08 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-10-A 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	146.0	450	6	P	
23	**Na**	2	**4115.000**	ug/l	20,575.00	2.6	450000	103	A	
24	**Mg**	2	**13000.000**	ug/l	65,000.00	2.3	450000	103	A	
27	**Al**	2	**7.707**	ug/l	38.54	5.8	450000	103	P	
31	**P**	2	**8.055**	ug/l	40.28	64.1	450000	103	P	
39	**K**	2	**1045.000**	ug/l	5,225.00	1.6	450000	103	P	
40	**Ca**	1	**3448.000**	ug/l	17,240.00	0.3	450000	45	A	
47	**Ti**	2	**0.279**	ug/l	1.40	67.0	4500	103	P	
51	**V**	2	**1.683**	ug/l	8.42	2.6	4500	103	P	
52	**Cr**	2	**0.237**	ug/l	1.18	19.6	4500	103	P	
54	**Fe**	1	**6.589**	ug/l	32.95	6.3	450000	74	P	
55	**Mn**	2	**6.390**	ug/l	31.95	1.9	4500	103	P	
59	**Co**	2	**0.059**	ug/l	0.29	13.5	4500	103	P	
60	**Ni**	2	**0.498**	ug/l	2.49	0.5	4500	103	P	
63	**Cu**	2	**0.132**	ug/l	0.66	22.4	4500	103	P	
66	**Zn**	2	**0.628**	ug/l	3.14	22.8	4500	103	P	
75	**As**	2	**0.597**	ug/l	2.98	7.6	4500	103	P	
78	**Se**	1	**0.057**	ug/l	0.28	51.4	450	74	P	
88	**Sr**	3	**26.910**	ug/l	134.55	4.7	4500	103	P	
95	**Mo**	3	**0.154**	ug/l	0.77	23.6	4500	103	P	
107	**Ag**	3	**0.005**	ug/l	0.02	47.3	450	103	P	
111	**Cd**	3	**0.010**	ug/l	0.05	81.2	900	103	P	
118	**Sn**	3	**0.035**	ug/l	0.18	30.7	4500	103	P	
121	**Sb**	3	**0.075**	ug/l	0.38	15.5	4500	103	P	
135	**Ba**	3	**1.707**	ug/l	8.54	13.9	4500	103	P	
200	**Hg**	3	**0.010**	ug/l	0.05	53.4	45	209	P	
205	**Tl**	3	**0.081**	ug/l	0.41	7.0	4500	209	P	
208	**Pb**	3	**0.012**	ug/l	0.06	27.3	4500	209	P	
238	**U**	3	**0.040**	ug/l	0.20	4.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5921356	1.90	6427000	**92.1**	30	-	120	
45	Sc	1	515681	1.93	475200	**108.5**	30	-	120	
45	Sc	2	284083	0.08	257900	**110.2**	30	-	120	
74	Ge	1	393978	1.32	351800	**112.0**	30	-	120	
74	Ge	2	431553	0.81	387700	**111.3**	30	-	120	
74	Ge	3	1657015	1.41	1596000	**103.8**	30	-	120	
103	Rh	2	798448	1.32	769800	**103.7**	30	-	120	
103	Rh	3	1412780	0.61	1405000	**100.6**	30	-	120	
165	Ho	3	2927915	0.65	2763000	**106.0**	30	-	120	
175	Lu	3	3320389	0.36	3025000	**109.8**	30	-	120	
209	Bi	3	6666018	0.12	6362000	**104.8**	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\052410A.B\047SMPL.D\047SMPL.D#
Date Acquired: May 24 2010 12:15 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-11-A 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	4099.0	450	6	P	
23	**Na**	2	**12780.000**	ug/l	63,900.00	1.6	450000	103	A	
24	**Mg**	2	**19770.000**	ug/l	98,850.00	2.1	450000	103	A	
27	**Al**	2	**11.640**	ug/l	58.20	4.1	450000	103	P	
31	**P**	2	**20.820**	ug/l	104.10	32.2	450000	103	P	
39	**K**	2	**3593.000**	ug/l	17,965.00	2.4	450000	103	A	
40	**Ca**	1	**5792.000**	ug/l	28,960.00	1.6	450000	45	A	
47	**Ti**	2	**0.168**	ug/l	0.84	5.1	4500	103	P	
51	**V**	2	**2.358**	ug/l	11.79	2.2	4500	103	P	
52	**Cr**	2	**0.184**	ug/l	0.92	16.2	4500	103	P	
54	**Fe**	1	**11.540**	ug/l	57.70	3.3	450000	74	P	
55	**Mn**	2	**2.088**	ug/l	10.44	2.9	4500	103	P	
59	**Co**	2	**0.028**	ug/l	0.14	13.1	4500	103	P	
60	**Ni**	2	**0.460**	ug/l	2.30	27.5	4500	103	P	
63	**Cu**	2	**0.201**	ug/l	1.01	9.8	4500	103	P	
66	**Zn**	2	**1.489**	ug/l	7.45	9.1	4500	103	P	
75	**As**	2	**1.031**	ug/l	5.16	6.0	4500	103	P	
78	**Se**	1	**0.068**	ug/l	0.34	28.2	450	74	P	
88	**Sr**	3	**65.500**	ug/l	327.50	2.0	4500	103	P	
95	**Mo**	3	**0.325**	ug/l	1.63	16.7	4500	103	P	
107	**Ag**	3	**0.004**	ug/l	0.02	39.5	450	103	P	
111	**Cd**	3	**0.010**	ug/l	0.05	105.8	900	103	P	
118	**Sn**	3	**0.097**	ug/l	0.48	4.7	4500	103	P	
121	**Sb**	3	**0.070**	ug/l	0.35	20.3	4500	103	P	
135	**Ba**	3	**2.749**	ug/l	13.75	3.6	4500	103	P	
200	**Hg**	3	**0.012**	ug/l	0.06	23.8	45	209	P	
205	**Tl**	3	**0.066**	ug/l	0.33	13.9	4500	209	P	
208	**Pb**	3	**0.065**	ug/l	0.33	13.3	4500	209	P	
238	**U**	3	**0.111**	ug/l	0.56	3.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6320910	1.37	6427000	**98.3**	30	-	120	
45	Sc	1	529979	0.29	475200	**111.5**	30	-	120	
45	Sc	2	293278	0.62	257900	**113.7**	30	-	120	
74	Ge	1	399864	0.70	351800	**113.7**	30	-	120	
74	Ge	2	433641	0.85	387700	**111.8**	30	-	120	
74	Ge	3	1675450	0.82	1596000	**105.0**	30	-	120	
103	Rh	2	791825	1.20	769800	**102.9**	30	-	120	
103	Rh	3	1425490	1.59	1405000	**101.5**	30	-	120	
165	Ho	3	3003179	1.58	2763000	**108.7**	30	-	120	
175	Lu	3	3331372	0.44	3025000	**110.1**	30	-	120	
209	Bi	3	6659857	0.12	6362000	**104.7**	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\052410A.B\048SMPL.D\048SMPL.D#
Date Acquired: May 24 2010 12:21 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-12-A 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	37262.0	450	6	P	
23	**Na**	2	**9857.000**	ug/l	49,285.00	0.7	450000	103	A	
24	**Mg**	2	**17930.000**	ug/l	89,650.00	1.5	450000	103	A	
27	**Al**	2	**12.790**	ug/l	63.95	7.5	450000	103	P	
31	**P**	2	**7.736**	ug/l	38.68	42.8	450000	103	P	
39	**K**	2	**1367.000**	ug/l	6,835.00	1.1	450000	103	P	
40	**Ca**	1	**4975.000**	ug/l	24,875.00	1.6	450000	45	A	
47	**Ti**	2	**0.127**	ug/l	0.64	27.3	4500	103	P	
51	**V**	2	**2.148**	ug/l	10.74	1.3	4500	103	P	
52	**Cr**	2	**0.258**	ug/l	1.29	7.7	4500	103	P	
54	**Fe**	1	**18.580**	ug/l	92.90	3.2	450000	74	P	
55	**Mn**	2	**11.160**	ug/l	55.80	0.6	4500	103	P	
59	**Co**	2	**0.225**	ug/l	1.13	2.8	4500	103	P	
60	**Ni**	2	**1.886**	ug/l	9.43	5.6	4500	103	P	
63	**Cu**	2	**0.228**	ug/l	1.14	10.8	4500	103	P	
66	**Zn**	2	**0.475**	ug/l	2.37	5.3	4500	103	P	
75	**As**	2	**0.619**	ug/l	3.10	7.6	4500	103	P	
78	**Se**	1	**0.178**	ug/l	0.89	65.2	450	74	P	
88	**Sr**	3	**52.100**	ug/l	260.50	4.7	4500	103	P	
95	**Mo**	3	**0.513**	ug/l	2.56	21.2	4500	103	P	
107	**Ag**	3	**0.000**	ug/l	0.00	434.5	450	103	P	
111	**Cd**	3	**0.001**	ug/l	0.01	119.4	900	103	P	
118	**Sn**	3	**0.046**	ug/l	0.23	18.6	4500	103	P	
121	**Sb**	3	**0.118**	ug/l	0.59	9.6	4500	103	P	
135	**Ba**	3	**7.072**	ug/l	35.36	3.9	4500	103	P	
200	**Hg**	3	**0.010**	ug/l	0.05	36.6	45	209	P	
205	**Tl**	3	**0.060**	ug/l	0.30	9.0	4500	209	P	
208	**Pb**	3	**0.024**	ug/l	0.12	19.8	4500	209	P	
238	**U**	3	**0.125**	ug/l	0.63	3.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6350871	1.40	6427000	**98.8**	30	-	120	
45	Sc	1	521442	0.71	475200	**109.7**	30	-	120	
45	Sc	2	284586	0.59	257900	**110.3**	30	-	120	
74	Ge	1	392529	0.62	351800	**111.6**	30	-	120	
74	Ge	2	424706	0.68	387700	**109.5**	30	-	120	
74	Ge	3	1641488	2.05	1596000	**102.9**	30	-	120	
103	Rh	2	779957	0.92	769800	**101.3**	30	-	120	
103	Rh	3	1393246	1.06	1405000	**99.2**	30	-	120	
165	Ho	3	2951383	0.39	2763000	**106.8**	30	-	120	
175	Lu	3	3290608	1.18	3025000	**108.8**	30	-	120	
209	Bi	3	6582885	1.00	6362000	**103.5**	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\052410A.B\049SMPL.D\049SMPL.D#
Date Acquired: May 24 2010 12:27 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-13-A 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	57.4	450	6	P	
23	**Na**	2	**1248.000**	ug/l	6,240.00	1.8	450000	103	A	
24	**Mg**	2	**5483.000**	ug/l	27,415.00	2.6	450000	103	A	
27	**Al**	2	**16.690**	ug/l	83.45	3.3	450000	103	P	
31	**P**	2	**-4.450**	ug/l	-22.25	113.2	450000	103	P	
39	**K**	2	**262.900**	ug/l	1,314.50	2.3	450000	103	P	
40	**Ca**	1	**6306.000**	ug/l	31,530.00	1.5	450000	45	A	
47	**Ti**	2	**0.168**	ug/l	0.84	41.9	4500	103	P	
51	**V**	2	**1.949**	ug/l	9.75	2.7	4500	103	P	
52	**Cr**	2	**0.229**	ug/l	1.14	17.2	4500	103	P	
54	**Fe**	1	**22.640**	ug/l	113.20	5.7	450000	74	P	
55	**Mn**	2	**20.640**	ug/l	103.20	1.2	4500	103	P	
59	**Co**	2	**0.186**	ug/l	0.93	2.0	4500	103	P	
60	**Ni**	2	**1.883**	ug/l	9.42	3.5	4500	103	P	
63	**Cu**	2	**0.126**	ug/l	0.63	10.5	4500	103	P	
66	**Zn**	2	**0.349**	ug/l	1.74	39.5	4500	103	P	
75	**As**	2	**0.368**	ug/l	1.84	9.0	4500	103	P	
78	**Se**	1	**0.037**	ug/l	0.19	29.8	450	74	P	
88	**Sr**	3	**48.190**	ug/l	240.95	4.3	4500	103	P	
95	**Mo**	3	**0.026**	ug/l	0.13	14.1	4500	103	P	
107	**Ag**	3	**0.000**	ug/l	0.00	8681.2	450	103	P	
111	**Cd**	3	**0.008**	ug/l	0.04	45.1	900	103	P	
118	**Sn**	3	**0.040**	ug/l	0.20	10.9	4500	103	P	
121	**Sb**	3	**0.044**	ug/l	0.22	11.6	4500	103	P	
135	**Ba**	3	**35.110**	ug/l	175.55	4.0	4500	103	P	
200	**Hg**	3	**0.012**	ug/l	0.06	58.1	45	209	P	
205	**Tl**	3	**0.047**	ug/l	0.23	16.0	4500	209	P	
208	**Pb**	3	**0.019**	ug/l	0.10	39.7	4500	209	P	
238	**U**	3	**0.009**	ug/l	0.05	6.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6177185	1.45	6427000	**96.1**	30	-	120	
45	Sc	1	522891	1.86	475200	**110.0**	30	-	120	
45	Sc	2	275780	1.27	257900	**106.9**	30	-	120	
74	Ge	1	396472	1.93	351800	**112.7**	30	-	120	
74	Ge	2	413964	0.28	387700	**106.8**	30	-	120	
74	Ge	3	1597027	0.77	1596000	**100.1**	30	-	120	
103	Rh	2	770319	1.29	769800	**100.1**	30	-	120	
103	Rh	3	1392200	0.26	1405000	**99.1**	30	-	120	
165	Ho	3	2921276	0.85	2763000	**105.7**	30	-	120	
175	Lu	3	3286094	1.56	3025000	**108.6**	30	-	120	
209	Bi	3	6685765	1.88	6362000	**105.1**	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\052410A.B\050SMPL.D\050SMPL.D#
Date Acquired: May 24 2010 12:33 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-14-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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	2.9	450	6	P	
23	**Na**	2	**629.100**	ug/l	3,145.50	0.5	450000	103	P	
24	**Mg**	2	**10190.000**	ug/l	50,950.00	0.8	450000	103	A	
27	**Al**	2	**5.264**	ug/l	26.32	5.2	450000	103	P	
31	**P**	2	**-2.290**	ug/l	-11.45	262.0	450000	103	P	
39	**K**	2	**99.750**	ug/l	498.75	2.2	450000	103	P	
40	**Ca**	1	**3794.000**	ug/l	18,970.00	2.4	450000	45	A	
47	**Ti**	2	**0.089**	ug/l	0.45	57.8	4500	103	P	
51	**V**	2	**1.879**	ug/l	9.40	4.3	4500	103	P	
52	**Cr**	2	**0.995**	ug/l	4.97	5.5	4500	103	P	
54	**Fe**	1	**9.641**	ug/l	48.21	10.9	450000	74	P	
55	**Mn**	2	**0.323**	ug/l	1.61	4.3	4500	103	P	
59	**Co**	2	**0.019**	ug/l	0.10	21.7	4500	103	P	
60	**Ni**	2	**16.640**	ug/l	83.20	3.0	4500	103	P	
63	**Cu**	2	**0.064**	ug/l	0.32	2.7	4500	103	P	
66	**Zn**	2	**0.371**	ug/l	1.85	23.7	4500	103	P	
75	**As**	2	**0.305**	ug/l	1.53	7.7	4500	103	P	
78	**Se**	1	**0.012**	ug/l	0.06	157.9	450	74	P	
88	**Sr**	3	**28.290**	ug/l	141.45	1.2	4500	103	P	
95	**Mo**	3	**0.005**	ug/l	0.03	40.2	4500	103	P	
107	**Ag**	3	**0.001**	ug/l	0.01	54.5	450	103	P	
111	**Cd**	3	**0.008**	ug/l	0.04	98.2	900	103	P	
118	**Sn**	3	**0.029**	ug/l	0.15	5.0	4500	103	P	
121	**Sb**	3	**0.037**	ug/l	0.19	26.2	4500	103	P	
135	**Ba**	3	**7.638**	ug/l	38.19	0.4	4500	103	P	
200	**Hg**	3	**0.007**	ug/l	0.03	47.3	45	209	P	
205	**Tl**	3	**0.045**	ug/l	0.23	6.9	4500	209	P	
208	**Pb**	3	**0.013**	ug/l	0.07	36.4	4500	209	P	
238	**U**	3	**0.021**	ug/l	0.11	3.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6025903	1.09	6427000	**93.8**	30	-	120	
45	Sc	1	518712	0.98	475200	**109.2**	30	-	120	
45	Sc	2	275075	0.79	257900	**106.7**	30	-	120	
74	Ge	1	395236	1.69	351800	**112.3**	30	-	120	
74	Ge	2	415046	0.72	387700	**107.1**	30	-	120	
74	Ge	3	1590890	0.71	1596000	**99.7**	30	-	120	
103	Rh	2	766767	1.05	769800	**99.6**	30	-	120	
103	Rh	3	1369262	0.62	1405000	**97.5**	30	-	120	
165	Ho	3	2927454	1.32	2763000	**106.0**	30	-	120	
175	Lu	3	3305255	0.49	3025000	**109.3**	30	-	120	
209	Bi	3	6706808	2.07	6362000	**105.4**	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\052410A.B\051SMPL.D\051SMPL.D#
Date Acquired: May 24 2010 12:39 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-15-A Vial Number: 2307
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	193.6	450	6	P	
23	**Na**	2	**550.500**	ug/l	2,752.50	1.7	450000	103	P	
24	**Mg**	2	**9985.000**	ug/l	49,925.00	2.3	450000	103	A	
27	**Al**	2	**4.201**	ug/l	21.01	6.6	450000	103	P	
31	**P**	2	**-7.927**	ug/l	-39.64	92.5	450000	103	P	
39	**K**	2	**72.630**	ug/l	363.15	2.0	450000	103	P	
40	**Ca**	1	**3345.000**	ug/l	16,725.00	0.7	450000	45	A	
47	**Ti**	2	**0.038**	ug/l	0.19	61.4	4500	103	P	
51	**V**	2	**1.854**	ug/l	9.27	3.8	4500	103	P	
52	**Cr**	2	**1.622**	ug/l	8.11	4.3	4500	103	P	
54	**Fe**	1	**6.197**	ug/l	30.99	8.2	450000	74	P	
55	**Mn**	2	**0.053**	ug/l	0.27	4.4	4500	103	P	
59	**Co**	2	**0.048**	ug/l	0.24	18.6	4500	103	P	
60	**Ni**	2	**22.010**	ug/l	110.05	4.5	4500	103	P	
63	**Cu**	2	**0.068**	ug/l	0.34	50.0	4500	103	P	
66	**Zn**	2	**0.202**	ug/l	1.01	37.9	4500	103	P	
75	**As**	2	**0.291**	ug/l	1.45	11.9	4500	103	P	
78	**Se**	1	**-0.001**	ug/l	0.00	1785.5	450	74	P	
88	**Sr**	3	**24.070**	ug/l	120.35	6.0	4500	103	P	
95	**Mo**	3	**0.021**	ug/l	0.11	88.6	4500	103	P	
107	**Ag**	3	**-0.001**	ug/l	0.00	88.4	450	103	P	
111	**Cd**	3	**0.001**	ug/l	0.01	826.7	900	103	P	
118	**Sn**	3	**0.030**	ug/l	0.15	55.1	4500	103	P	
121	**Sb**	3	**0.032**	ug/l	0.16	14.2	4500	103	P	
135	**Ba**	3	**7.118**	ug/l	35.59	6.3	4500	103	P	
200	**Hg**	3	**0.006**	ug/l	0.03	63.4	45	209	P	
205	**Tl**	3	**0.052**	ug/l	0.26	6.2	4500	209	P	
208	**Pb**	3	**0.004**	ug/l	0.02	20.6	4500	209	P	
238	**U**	3	**0.005**	ug/l	0.03	5.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6154961	1.15	6427000	**95.8**	30	-	120	
45	Sc	1	515366	0.16	475200	**108.5**	30	-	120	
45	Sc	2	275803	0.30	257900	**106.9**	30	-	120	
74	Ge	1	396500	0.45	351800	**112.7**	30	-	120	
74	Ge	2	418493	0.25	387700	**107.9**	30	-	120	
74	Ge	3	1595605	0.53	1596000	**100.0**	30	-	120	
103	Rh	2	769406	1.19	769800	**99.9**	30	-	120	
103	Rh	3	1384876	1.53	1405000	**98.6**	30	-	120	
165	Ho	3	2937552	0.20	2763000	**106.3**	30	-	120	
175	Lu	3	3338826	0.90	3025000	**110.4**	30	-	120	
209	Bi	3	6665976	0.57	6362000	**104.8**	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\052410A.B\052SMPL.D\052SMPL.D#
Date Acquired: May 24 2010 12:45 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-16-A Vial Number: 2308
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	27.6	450	6	P	
23	**Na**	2	**6080.000**	ug/l	30,400.00	1.8	450000	103	A	
24	**Mg**	2	**4091.000**	ug/l	20,455.00	2.1	450000	103	A	
27	**Al**	2	**17.000**	ug/l	85.00	4.8	450000	103	P	
31	**P**	2	**-0.873**	ug/l	-4.37	409.1	450000	103	P	
39	**K**	2	**1029.000**	ug/l	5,145.00	0.6	450000	103	P	
40	**Ca**	1	**10970.000**	ug/l	54,850.00	1.1	450000	45	A	
47	**Ti**	2	**0.214**	ug/l	1.07	19.1	4500	103	P	
51	**V**	2	**1.902**	ug/l	9.51	4.1	4500	103	P	
52	**Cr**	2	**0.250**	ug/l	1.25	23.6	4500	103	P	
54	**Fe**	1	**24.660**	ug/l	123.30	3.0	450000	74	P	
55	**Mn**	2	**7.494**	ug/l	37.47	1.2	4500	103	P	
59	**Co**	2	**0.104**	ug/l	0.52	5.0	4500	103	P	
60	**Ni**	2	**0.807**	ug/l	4.04	5.6	4500	103	P	
63	**Cu**	2	**0.466**	ug/l	2.33	5.2	4500	103	P	
66	**Zn**	2	**0.786**	ug/l	3.93	25.4	4500	103	P	
75	**As**	2	**0.546**	ug/l	2.73	8.0	4500	103	P	
78	**Se**	1	**0.012**	ug/l	0.06	157.6	450	74	P	
88	**Sr**	3	**94.240**	ug/l	471.20	3.8	4500	103	M	
95	**Mo**	3	**0.351**	ug/l	1.76	16.3	4500	103	P	
107	**Ag**	3	**0.001**	ug/l	0.00	384.3	450	103	P	
111	**Cd**	3	**0.034**	ug/l	0.17	86.4	900	103	P	
118	**Sn**	3	**0.060**	ug/l	0.30	4.9	4500	103	P	
121	**Sb**	3	**0.081**	ug/l	0.40	16.7	4500	103	P	
135	**Ba**	3	**8.599**	ug/l	43.00	5.7	4500	103	P	
200	**Hg**	3	**0.011**	ug/l	0.06	9.6	45	209	P	
205	**Tl**	3	**0.033**	ug/l	0.17	3.8	4500	209	P	
208	**Pb**	3	**0.061**	ug/l	0.30	6.8	4500	209	P	
238	**U**	3	**0.083**	ug/l	0.41	6.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6018743	0.69	6427000	**93.6**	30	-	120	
45	Sc	1	527700	0.90	475200	**111.0**	30	-	120	
45	Sc	2	278316	0.42	257900	**107.9**	30	-	120	
74	Ge	1	399222	1.40	351800	**113.5**	30	-	120	
74	Ge	2	419627	0.23	387700	**108.2**	30	-	120	
74	Ge	3	1592328	0.88	1596000	**99.8**	30	-	120	
103	Rh	2	784637	0.94	769800	**101.9**	30	-	120	
103	Rh	3	1382503	0.60	1405000	**98.4**	30	-	120	
165	Ho	3	2949292	1.31	2763000	**106.7**	30	-	120	
175	Lu	3	3304121	1.61	3025000	**109.2**	30	-	120	
209	Bi	3	6705493	1.41	6362000	**105.4**	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\052410A.B\053SMPL.D\053SMPL.D#
Date Acquired: May 24 2010 12:51 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-17-A Vial Number: 2309
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	187.7	450	6	P	
23	**Na**	2	**702.800**	ug/l	3,514.00	0.5	450000	103	P	
24	**Mg**	2	**5887.000**	ug/l	29,435.00	1.0	450000	103	A	
27	**Al**	2	**6.128**	ug/l	30.64	7.5	450000	103	P	
31	**P**	2	**-4.957**	ug/l	-24.79	60.2	450000	103	P	
39	**K**	2	**127.500**	ug/l	637.50	1.9	450000	103	P	
40	**Ca**	1	**4829.000**	ug/l	24,145.00	1.2	450000	45	A	
47	**Ti**	2	**0.096**	ug/l	0.48	25.6	4500	103	P	
51	**V**	2	**1.663**	ug/l	8.32	4.0	4500	103	P	
52	**Cr**	2	**1.019**	ug/l	5.10	2.6	4500	103	P	
54	**Fe**	1	**7.165**	ug/l	35.83	19.1	450000	74	P	
55	**Mn**	2	**0.231**	ug/l	1.15	3.6	4500	103	P	
59	**Co**	2	**0.010**	ug/l	0.05	9.5	4500	103	P	
60	**Ni**	2	**1.390**	ug/l	6.95	5.8	4500	103	P	
63	**Cu**	2	**0.089**	ug/l	0.45	36.7	4500	103	P	
66	**Zn**	2	**0.406**	ug/l	2.03	8.7	4500	103	P	
75	**As**	2	**0.321**	ug/l	1.60	19.2	4500	103	P	
78	**Se**	1	**0.049**	ug/l	0.25	76.7	450	74	P	
88	**Sr**	3	**40.300**	ug/l	201.50	4.8	4500	103	P	
95	**Mo**	3	**0.100**	ug/l	0.50	7.0	4500	103	P	
107	**Ag**	3	**0.002**	ug/l	0.01	83.5	450	103	P	
111	**Cd**	3	**0.008**	ug/l	0.04	202.0	900	103	P	
118	**Sn**	3	**0.024**	ug/l	0.12	26.7	4500	103	P	
121	**Sb**	3	**0.035**	ug/l	0.17	11.2	4500	103	P	
135	**Ba**	3	**13.360**	ug/l	66.80	3.5	4500	103	P	
200	**Hg**	3	**0.010**	ug/l	0.05	20.5	45	209	P	
205	**Tl**	3	**0.029**	ug/l	0.14	24.1	4500	209	P	
208	**Pb**	3	**0.022**	ug/l	0.11	2.7	4500	209	P	
238	**U**	3	**0.005**	ug/l	0.02	15.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6073927	1.85	6427000	**94.5**	30	-	120	
45	Sc	1	522827	1.12	475200	**110.0**	30	-	120	
45	Sc	2	276411	1.29	257900	**107.2**	30	-	120	
74	Ge	1	400858	1.40	351800	**113.9**	30	-	120	
74	Ge	2	413563	0.88	387700	**106.7**	30	-	120	
74	Ge	3	1594250	0.80	1596000	**99.9**	30	-	120	
103	Rh	2	774169	0.30	769800	**100.6**	30	-	120	
103	Rh	3	1377982	1.17	1405000	**98.1**	30	-	120	
165	Ho	3	2940605	0.68	2763000	**106.4**	30	-	120	
175	Lu	3	3286867	1.88	3025000	**108.7**	30	-	120	
209	Bi	3	6705772	0.58	6362000	**105.4**	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\052410A.B\054SMPL.D\054SMPL.D#
Date Acquired: May 24 2010 12:57 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19305-A-1-B Vial Number: 2310
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	0.01	15.6	450	6	P	
23	**Na**	2	**5711.000**	ug/l	28,555.00	0.8	450000	103	A	
24	**Mg**	2	**692.100**	ug/l	3,460.50	1.2	450000	103	P	
27	**Al**	2	**4.511**	ug/l	22.56	1.5	450000	103	P	
31	**P**	2	**1.857**	ug/l	9.29	128.6	450000	103	P	
39	**K**	2	**842.100**	ug/l	4,210.50	3.0	450000	103	P	
40	**Ca**	1	**2442.000**	ug/l	12,210.00	1.0	450000	45	A	
47	**Ti**	2	**0.103**	ug/l	0.51	10.4	4500	103	P	
51	**V**	2	**1.520**	ug/l	7.60	5.9	4500	103	P	
52	**Cr**	2	**0.103**	ug/l	0.51	9.3	4500	103	P	
54	**Fe**	1	**84.660**	ug/l	423.30	1.5	450000	74	P	
55	**Mn**	2	**155.900**	ug/l	779.50	1.0	4500	103	P	
59	**Co**	2	**0.174**	ug/l	0.87	7.9	4500	103	P	
60	**Ni**	2	**0.535**	ug/l	2.67	15.4	4500	103	P	
63	**Cu**	2	**0.083**	ug/l	0.42	25.9	4500	103	P	
66	**Zn**	2	**2.014**	ug/l	10.07	16.7	4500	103	P	
75	**As**	2	**0.670**	ug/l	3.35	10.7	4500	103	P	
78	**Se**	1	**0.024**	ug/l	0.12	117.5	450	74	P	
88	**Sr**	3	**17.300**	ug/l	86.50	5.0	4500	103	P	
95	**Mo**	3	**0.338**	ug/l	1.69	23.8	4500	103	P	
107	**Ag**	3	**0.002**	ug/l	0.01	86.3	450	103	P	
111	**Cd**	3	**0.008**	ug/l	0.04	83.0	900	103	P	
118	**Sn**	3	**0.091**	ug/l	0.45	13.9	4500	103	P	
121	**Sb**	3	**0.136**	ug/l	0.68	2.0	4500	103	P	
135	**Ba**	3	**77.010**	ug/l	385.05	3.9	4500	103	P	
200	**Hg**	3	**0.005**	ug/l	0.03	81.5	45	209	P	
205	**Tl**	3	**0.022**	ug/l	0.11	12.1	4500	209	P	
208	**Pb**	3	**0.056**	ug/l	0.28	8.4	4500	209	P	
238	**U**	3	**0.006**	ug/l	0.03	5.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6205311	0.13	6427000	**96.6**	30	-	120	
45	Sc	1	520524	2.01	475200	**109.5**	30	-	120	
45	Sc	2	277794	1.59	257900	**107.7**	30	-	120	
74	Ge	1	393723	2.90	351800	**111.9**	30	-	120	
74	Ge	2	415380	1.21	387700	**107.1**	30	-	120	
74	Ge	3	1586680	0.94	1596000	**99.4**	30	-	120	
103	Rh	2	787198	1.35	769800	**102.3**	30	-	120	
103	Rh	3	1390497	0.76	1405000	**99.0**	30	-	120	
165	Ho	3	2964243	0.91	2763000	**107.3**	30	-	120	
175	Lu	3	3312974	1.00	3025000	**109.5**	30	-	120	
209	Bi	3	6904324	0.99	6362000	**108.5**	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\052410A.B\055SMPL.D\055SMPL.D#
Date Acquired: May 24 2010 01:04 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	**49.590**	ug/l	49.59	4.0	450	6	P	
23	**Na**	2	**4885.000**	ug/l	4,885.00	1.3	450000	103	A	
24	**Mg**	2	**4950.000**	ug/l	4,950.00	0.8	450000	103	A	
27	**Al**	2	**500.600**	ug/l	500.60	1.1	450000	103	P	
31	**P**	2	**4889.000**	ug/l	4,889.00	1.4	450000	103	P	
39	**K**	2	**5117.000**	ug/l	5,117.00	0.9	450000	103	A	
40	**Ca**	1	**5145.000**	ug/l	5,145.00	1.3	450000	45	A	
47	**Ti**	2	**49.420**	ug/l	49.42	1.3	4500	103	P	
51	**V**	2	**48.950**	ug/l	48.95	1.5	4500	103	P	
52	**Cr**	2	**48.780**	ug/l	48.78	1.1	4500	103	P	
54	**Fe**	1	**4954.000**	ug/l	4,954.00	0.2	450000	74	P	
55	**Mn**	2	**51.120**	ug/l	51.12	0.5	4500	103	P	
59	**Co**	2	**48.770**	ug/l	48.77	0.6	4500	103	P	
60	**Ni**	2	**47.700**	ug/l	47.70	1.1	4500	103	P	
63	**Cu**	2	**48.920**	ug/l	48.92	0.8	4500	103	P	
66	**Zn**	2	**49.070**	ug/l	49.07	0.3	4500	103	P	
75	**As**	2	**49.640**	ug/l	49.64	1.0	4500	103	P	
78	**Se**	1	**48.370**	ug/l	48.37	4.5	450	74	P	
88	**Sr**	3	**48.710**	ug/l	48.71	4.5	4500	103	P	
95	**Mo**	3	**48.760**	ug/l	48.76	3.0	4500	103	P	
107	**Ag**	3	**50.170**	ug/l	50.17	2.9	450	103	P	
111	**Cd**	3	**50.030**	ug/l	50.03	3.8	900	103	P	
118	**Sn**	3	**50.490**	ug/l	50.49	4.5	4500	103	P	
121	**Sb**	3	**50.650**	ug/l	50.65	4.3	4500	103	P	
135	**Ba**	3	**51.100**	ug/l	51.10	4.3	4500	103	P	
200	**Hg**	3	**2.474**	ug/l	2.47	2.1	45	209	P	
205	**Tl**	3	**48.900**	ug/l	48.90	3.1	4500	209	P	
208	**Pb**	3	**50.130**	ug/l	50.13	3.1	4500	209	P	
238	**U**	3	**50.170**	ug/l	50.17	3.5	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6564495	1.03	6427000	**102.1**	30	-	120	
45	Sc	1	538971	1.28	475200	**113.4**	30	-	120	
45	Sc	2	286869	0.71	257900	**111.2**	30	-	120	
74	Ge	1	407664	1.30	351800	**115.9**	30	-	120	
74	Ge	2	424799	0.81	387700	**109.6**	30	-	120	
74	Ge	3	1673723	1.26	1596000	**104.9**	30	-	120	
103	Rh	2	790364	0.98	769800	**102.7**	30	-	120	
103	Rh	3	1468272	1.57	1405000	**104.5**	30	-	120	
165	Ho	3	3039633	1.07	2763000	**110.0**	30	-	120	
175	Lu	3	3327275	1.19	3025000	**110.0**	30	-	120	
209	Bi	3	6854838	1.15	6362000	**107.7**	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\052410A.B\056SMPL.D\056SMPL.D#
Date Acquired: May 24 2010 01:10 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: May 24 2010 01:17 pm
ISTD Ref File : C:\ICPCHEM\1\DATA\052410A.B\008CALB.D\008CALB.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	34.5	450	6	P	
23	**Na**	2	**-55.530**	ug/l	-55.53	2.3	450000	103	P	
24	**Mg**	2	**0.159**	ug/l	0.16	51.2	450000	103	P	
27	**Al**	2	**-0.097**	ug/l	-0.10	30.4	450000	103	P	
31	**P**	2	**-5.148**	ug/l	-5.15	43.3	450000	103	P	
39	**K**	2	**-1.276**	ug/l	-1.28	258.9	450000	103	P	
40	**Ca**	1	**0.235**	ug/l	0.23	24.8	450000	45	P	
47	**Ti**	2	**0.004**	ug/l	0.00	95.7	4500	103	P	
51	**V**	2	**0.211**	ug/l	0.21	26.5	4500	103	P	
52	**Cr**	2	**0.008**	ug/l	0.01	325.6	4500	103	P	
54	**Fe**	1	**0.667**	ug/l	0.67	41.4	450000	74	P	
55	**Mn**	2	**0.020**	ug/l	0.02	49.4	4500	103	P	
59	**Co**	2	**0.001**	ug/l	0.00	133.1	4500	103	P	
60	**Ni**	2	**0.037**	ug/l	0.04	71.3	4500	103	P	
63	**Cu**	2	**0.008**	ug/l	0.01	383.2	4500	103	P	
66	**Zn**	2	**0.029**	ug/l	0.03	83.0	4500	103	P	
75	**As**	2	**0.030**	ug/l	0.03	19.8	4500	103	P	
78	**Se**	1	**0.005**	ug/l	0.00	211.1	450	74	P	
88	**Sr**	3	**0.007**	ug/l	0.01	65.3	4500	103	P	
95	**Mo**	3	**0.004**	ug/l	0.00	339.1	4500	103	P	
107	**Ag**	3	**0.003**	ug/l	0.00	103.4	450	103	P	
111	**Cd**	3	**0.014**	ug/l	0.01	82.5	900	103	P	
118	**Sn**	3	**0.026**	ug/l	0.03	34.3	4500	103	P	
121	**Sb**	3	**0.023**	ug/l	0.02	34.1	4500	103	P	
135	**Ba**	3	**0.011**	ug/l	0.01	127.9	4500	103	P	
200	**Hg**	3	**0.010**	ug/l	0.01	50.4	45	209	P	
205	**Tl**	3	**0.292**	ug/l	0.29	5.3	4500	209	P	
208	**Pb**	3	**0.004**	ug/l	0.00	75.1	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.00	35.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	6611751	0.98	6427000	**102.9**	30	-	120	
45	Sc	1	547927	1.01	475200	**115.3**	30	-	120	
45	Sc	2	290061	1.13	257900	**112.5**	30	-	120	
74	Ge	1	422215	2.51	351800	**120.0**	30	-	120	**IS Fail**
74	Ge	2	439259	0.52	387700	**113.3**	30	-	120	
74	Ge	3	1680746	0.57	1596000	**105.3**	30	-	120	
103	Rh	2	841770	0.58	769800	**109.3**	30	-	120	
103	Rh	3	1510258	0.33	1405000	**107.5**	30	-	120	
165	Ho	3	3062836	0.63	2763000	**110.9**	30	-	120	
175	Lu	3	3455735	1.08	3025000	**114.2**	30	-	120	
209	Bi	3	7204323	0.46	6362000	**113.2**	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

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	1.592E-04	4.985E-03	2.474E-03	ug/l
2	23	Na	1.0000	28.59 2.204	138.6	ug/l	
2	24	Mg	1.0000	5.466E-02	2.173E-01	4.681E-01	ug/l
2	27	Al	1.0000	4.100E-02	2.591E-01	6.883E-01	ug/l
2	31	P	1.0000	1.549E-01	13.65	37.94	ug/l
2	39	K	0.9999	20.29 14.60	215.9	ug/l	
1	40	Ca	0.9999	4.192E-01	2.118E-01	2.970	ug/l
1	45	Sc	0.0000	--- ---	---	ug/l	
2	45	Sc	0.0000	--- ---	---	ug/l	
2	47	Ti	1.0000	2.612E-04	5.648E-02	1.087E-02	ug/l
2	51	V	1.0000	3.098E-01	8.388E-02	5.583E-01	ug/l
2	52	Cr	1.0000	1.529E-01	1.359E-01	2.391E-01	ug/l
1	54	Fe	0.9997	6.664E-02	1.231	3.196	ug/l
2	55	Mn	1.0000	2.044E-02	3.406E-02	4.457E-02	ug/l
2	59	Co	1.0000	2.083E-03	8.332E-04	2.492E-03	ug/l
2	60	Ni	1.0000	1.105E-02	6.895E-02	5.200E-02	ug/l
2	63	Cu	1.0000	4.230E-02	4.027E-02	7.724E-02	ug/l
2	66	Zn	1.0000	2.734E-02	1.273E-01	2.232E-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	9.544E-03	2.194E-02	1.704E-01	ug/l
1	78	Se	1.0000	2.688E-04	7.342E-02	2.165E-02	ug/l
3	88	Sr	1.0000	5.164E-03	7.288E-03	1.191E-02	ug/l
3	95	Mo	1.0000	2.441E-04	1.414E-02	2.722E-03	ug/l
2	103	Rh	0.0000	--- ---	---	ug/l	
3	103	Rh	0.0000	--- ---	---	ug/l	
3	107	Ag	1.0000	1.040E-03	1.510E-02	3.538E-03	ug/l
3	111	Cd	1.0000	6.216E-04	2.724E-02	9.108E-03	ug/l
3	118	Sn	1.0000	3.649E-03	4.537E-03	2.049E-02	ug/l
3	121	Sb	1.0000	1.567E-03	8.617E-03	5.643E-03	ug/l
3	135	Ba	1.0000	1.307E-03	4.902E-02	2.608E-02	ug/l
3	165	Ho	0.0000	--- ---	---	ug/l	
3	175	Lu	0.0000	--- ---	---	ug/l	
3	200	Hg	0.9999	1.595E-02	7.283E-02	7.681E-01	ug/l
3	205	Tl	1.0000	2.329E-03	6.336E-03	1.285E-02	ug/l
3	208	Pb	1.0000	3.454E-03	3.552E-03	1.377E-02	ug/l
3	209	Bi	0.0000	--- ---	---	ug/l	
3	238	U	1.0000	1.686E-04	8.375E-04	5.539E-04	ug/l

TA Seattle/Tacoma Calibration Blank QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.D#
Date Acquired: Jun 2 2010 11:31 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 03 2010 05:40 am
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	4716139.0	A	47030.00	1.00
7	Li	3	732496.5	P	7107.00	0.97
9	Be	3	15.0	P	10.00	66.67
23	Na	2	146467.8	P	1215.00	0.83
24	Mg	2	280.0	P	43.59	15.57
25	Mg	2		P		
26	Mg	2		P		
27	Al	2	210.0	P	25.98	12.37
31	P	2	793.4	P	97.14	12.24
39	K	2	103913.9	P	2495.00	2.40
40	Ca	1	5531.4	P	137.60	2.49
44	Ca	2		P		
45	Sc	1	659831.1	P	15120.00	2.29
45	Sc	2	256116.0	P	788.00	0.31
45	Sc	3		A		
47	Ti	2	1.3	P	2.31	173.17
50	V	2		P		
51	V	2	1586.8	P	83.27	5.25
52	Cr	2	783.4	P	150.10	19.16
53	Cr	2		P		
54	Fe	1	660.0	P	78.11	11.83
54	Fe	2		P		
55	Mn	2	104.7	P	26.56	25.38
56	Fe	1		P		
59	Co	2	10.7	P	1.16	10.83
60	Ni	2	56.7	P	25.17	44.42
61	Ni	2		P		
63	Cu	2	216.7	P	37.86	17.47
65	Cu	2		P		
66	Zn	2	140.0	P	26.46	18.90
67	Zn	2		P		
68	Zn	2		P		
74	Ge	1	495739.3	P	12710.00	2.56
74	Ge	2	370225.2	P	2658.00	0.72
74	Ge	3	1353551.0	A	18930.00	1.40
75	As	2	70.7	P	3.06	4.32
78	Se	1	2.7	P	3.06	114.56
78	Se	2		P		
88	Sr	2		P		
88	Sr	3	140.0	P	30.00	21.43
95	Mo	3	6.7	P	11.55	173.24
98	Mo	3		P		
99	(Mo)	3		P		
103	Rh	2	687660.7	P	7883.00	1.15
103	Rh	3	1279644.0	M	16340.00	1.28
106	(Cd)	3		P		
107	Ag	3	26.7	P	37.86	141.97
108	(Cd)	3		P		
109	Ag	3		P		
111	Cd	3	15.9	P	15.87	99.70
114	Cd	3		P		
118	Sn	2		P		
118	Sn	3	93.3	P	5.77	6.19
120	Sn	3		P		
121	Sb	3	40.0	P	20.00	50.00
123	Sb	3		P		
135	Ba	3	33.3	P	20.82	62.46
137	Ba	3		P		
165	Ho	3	2555640.0	A	11510.00	0.45
175	Lu	3	2886512.0	A	18530.00	0.64
200	Hg	3	1894.2	P	64.39	3.40
201	Hg	3		P		
202	Hg	3		P		
203	Tl	3		P		
205	Tl	3	276.7	P	47.26	17.08
206	Pb	3		P		
207	Pb	3		P		
208	Pb	3	410.0	P	34.64	8.45
209	Bi	3	5936156.0	A	41910.00	0.71
238	U	3	20.0	P	10.00	50.00

TA Seattle/Tacoma Calibration Standard QC Report ICP-MS 7500ce

Data File: C:\ICPCHEM\1\DATA\060210B.B\006CALS.D\006CALS.D#
Date Acquired: Jun 2 2010 11:38 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	640.0 P	10.00	1.56
23	Na	45	2	157091.6 P	414.40	0.26
24	Mg	45	2	6682.0 P	278.50	4.17
27	Al	45	2	840.0 P	70.54	8.40
31	P	45	2	930.1 P	78.11	8.40
39	K	45	2	107984.2 P	1645.00	1.52
40	Ca	45	1	24811.9 P	476.30	1.92
47	Ti	45	2	12.3 P	2.08	16.88
51	V	45	2	1863.6 P	162.90	8.74
52	Cr	45	2	906.7 P	40.40	4.46
54	Fe	74	1	2807.1 P	80.23	2.86
55	Mn	45	2	344.7 P	15.14	4.39
59	Co	45	2	438.7 P	37.86	8.63
60	Ni	45	2	196.7 P	23.09	11.74
63	Cu	45	2	450.0 P	100.00	22.22
66	Zn	45	2	496.7 P	90.75	18.27
75	As	74	2	91.3 P	11.72	12.83
78	Se	74	1	14.7 P	8.08	55.11
88	Sr	74	3	1206.8 P	197.30	16.35
95	Mo	74	3	253.3 P	15.28	6.03
107	Ag	103	3	763.4 P	124.20	16.27
111	Cd	103	3	188.3 P	35.74	18.98
118	Sn	103	3	513.4 P	45.11	8.79
121	Sb	103	3	623.4 P	118.50	19.01
135	Ba	103	3	126.7 P	68.07	53.74
200	Hg	209	3	1915.5 P	39.01	2.04
205	Tl	209	3	2393.7 P	11.55	0.48
208	Pb	209	3	3637.1 P	280.40	7.71
238	U	209	3	3547.4 P	320.20	9.03

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4715189	1.06	4716000	100.0	30 - 120	
45	Sc	1	639876	0.74	659800	97.0	30 - 120	
45	Sc	2	256281	0.74	256100	100.1	30 - 120	
74	Ge	1	484114	0.96	495700	97.7	30 - 120	
74	Ge	2	370270	0.79	370200	100.0	30 - 120	
74	Ge	3	1343856	1.40	1354000	99.3	30 - 120	
103	Rh	2	694088	1.08	687700	100.9	30 - 120	
103	Rh	3	1269005	2.63	1280000	99.1	30 - 120	
165	Ho	3	2518101	0.49	2556000	98.5	30 - 120	
175	Lu	3	2824614	0.43	2887000	97.8	30 - 120	
209	Bi	3	5815723	1.01	5936000	98.0	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\060210B.B\007CALS.D\007CALS.D#
Date Acquired: Jun 2 2010 11:46 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	6241.6	P	350.20	5.61
23	Na	45	2	257070.9	P	1832.00	0.71
24	Mg	45	2	62626.6	P	1076.00	1.72
27	Al	45	2	3328.8	P	221.60	6.66
31	P	45	2	2853.8	P	196.60	6.89
39	K	45	2	154765.3	P	1300.00	0.84
40	Ca	45	1	195493.3	P	4101.00	2.10
47	Ti	45	2	120.0	P	13.23	11.03
51	V	45	2	4701.1	P	420.20	8.94
52	Cr	45	2	4017.5	P	65.08	1.62
54	Fe	74	1	21766.1	P	622.00	2.86
55	Mn	45	2	2471.6	P	49.42	2.00
59	Co	45	2	4302.8	P	114.20	2.65
60	Ni	45	2	1180.1	P	110.00	9.32
63	Cu	45	2	3063.8	P	176.20	5.75
66	Zn	45	2	846.7	P	46.20	5.46
75	As	74	2	467.3	P	33.73	7.22
78	Se	74	1	112.0	P	24.58	21.95
88	Sr	74	3	12616.9	P	431.40	3.42
95	Mo	74	3	2557.0	P	119.30	4.67
107	Ag	103	3	7736.1	P	350.40	4.53
111	Cd	103	3	1925.5	P	81.33	4.22
118	Sn	103	3	4717.8	P	418.80	8.88
121	Sb	103	3	7299.1	P	73.77	1.01
135	Ba	103	3	1390.1	P	157.20	11.31
200	Hg	209	3	1880.2	P	94.31	5.02
205	Tl	209	3	21858.0	P	156.60	0.72
208	Pb	209	3	31607.9	P	350.90	1.11
238	U	209	3	37780.4	P	928.60	2.46

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4736176	0.54	4716000	100.4	30 - 120	
45	Sc	1	630338	1.21	659800	95.5	30 - 120	
45	Sc	2	256828	0.48	256100	100.3	30 - 120	
74	Ge	1	480385	1.98	495700	96.9	30 - 120	
74	Ge	2	373422	0.14	370200	100.9	30 - 120	
74	Ge	3	1373533	1.29	1354000	101.4	30 - 120	
103	Rh	2	693652	0.92	687700	100.9	30 - 120	
103	Rh	3	1298537	1.11	1280000	101.4	30 - 120	
165	Ho	3	2561586	0.71	2556000	100.2	30 - 120	
175	Lu	3	2842373	0.43	2887000	98.5	30 - 120	
209	Bi	3	5974214	0.96	5936000	100.6	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\060210B.B\008CALS.D\008CALS.D#
Date Acquired: Jun 2 2010 11:53 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	63372.6	P	934.20	1.47
23	Na	45	2	1263182.0	A	10470.00	0.83
24	Mg	45	2	628455.8	P	5236.00	0.83
27	Al	45	2	31171.3	P	602.10	1.93
31	P	45	2	21251.7	P	480.60	2.26
39	K	45	2	612989.6	P	3362.00	0.55
40	Ca	45	1	1913455.0	A	45850.00	2.40
47	Ti	45	2	1223.7	P	56.51	4.62
51	V	45	2	29501.9	P	176.60	0.60
52	Cr	45	2	33792.6	P	1189.00	3.52
54	Fe	74	1	212857.5	P	2317.00	1.09
55	Mn	45	2	24051.5	P	82.32	0.34
59	Co	45	2	43929.9	P	535.30	1.22
60	Ni	45	2	11008.5	P	425.50	3.87
63	Cu	45	2	29645.9	P	415.10	1.40
66	Zn	45	2	6198.4	P	261.20	4.21
75	As	74	2	4230.7	P	121.20	2.86
78	Se	74	1	1237.4	P	61.34	4.96
88	Sr	74	3	125887.8	P	847.00	0.67
95	Mo	74	3	26038.1	P	134.90	0.52
107	Ag	103	3	76702.7	P	848.10	1.11
111	Cd	103	3	18041.2	P	447.80	2.48
118	Sn	103	3	46536.5	P	903.70	1.94
121	Sb	103	3	72925.8	P	1056.00	1.45
135	Ba	103	3	13124.3	P	274.60	2.09
200	Hg	209	3	3027.8	P	76.16	2.52
205	Tl	209	3	221967.9	P	2724.00	1.23
208	Pb	209	3	307814.1	P	3414.00	1.11
238	U	209	3	375230.2	P	385.90	0.10

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4827453	1.88	4716000	102.4	30 - 120	
45	Sc	1	644376	0.47	659800	97.7	30 - 120	
45	Sc	2	258881	1.34	256100	101.1	30 - 120	
74	Ge	1	489492	1.98	495700	98.7	30 - 120	
74	Ge	2	370314	1.35	370200	100.0	30 - 120	
74	Ge	3	1413889	0.87	1354000	104.4	30 - 120	
103	Rh	2	683951	0.79	687700	99.5	30 - 120	
103	Rh	3	1280186	1.68	1280000	100.0	30 - 120	
165	Ho	3	2576370	1.72	2556000	100.8	30 - 120	
175	Lu	3	2860628	0.76	2887000	99.1	30 - 120	
209	Bi	3	5942613	1.48	5936000	100.1	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\060210B.B\009CALS.D\009CALS.D#
Date Acquired: Jun 2 2010 12:00 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	310625.8	P	23370.00	7.52
23	Na	45	2	5541313.0	A	114900.00	2.07
24	Mg	45	2	3049549.0	A	35770.00	1.17
27	Al	45	2	154542.6	P	792.30	0.51
31	P	45	2	106131.6	P	696.70	0.66
39	K	45	2	2584949.0	A	8309.00	0.32
40	Ca	45	1	9297556.0	A	76350.00	0.82
47	Ti	45	2	6130.2	P	173.80	2.84
51	V	45	2	144537.5	P	431.60	0.30
52	Cr	45	2	168280.6	P	1602.00	0.95
54	Fe	74	1	1055623.0	P	6997.00	0.66
55	Mn	45	2	119024.1	P	1337.00	1.12
59	Co	45	2	217867.9	P	2317.00	1.06
60	Ni	45	2	55084.8	P	568.90	1.03
63	Cu	45	2	142160.5	P	2318.00	1.63
66	Zn	45	2	31503.7	P	833.70	2.65
75	As	74	2	20745.9	P	294.40	1.42
78	Se	74	1	6064.9	P	204.90	3.38
88	Sr	74	3	608897.0	P	39490.00	6.49
95	Mo	74	3	125096.0	P	8055.00	6.44
107	Ag	103	3	365226.7	P	18700.00	5.12
111	Cd	103	3	84129.5	P	5894.00	7.01
118	Sn	103	3	218490.4	P	16090.00	7.36
121	Sb	103	3	340330.3	P	26830.00	7.88
135	Ba	103	3	62064.5	P	5046.00	8.13
200	Hg	209	3	7925.4	P	282.40	3.56
205	Tl	209	3	1042904.0	P	82210.00	7.88
208	Pb	209	3	1453004.0	P	100700.00	6.93
238	U	209	3	1752716.0	A	141700.00	8.08

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4861930	0.47	4716000	103.1	30 - 120	
45	Sc	1	641369	0.45	659800	97.2	30 - 120	
45	Sc	2	257711	1.52	256100	100.6	30 - 120	
74	Ge	1	485083	1.31	495700	97.9	30 - 120	
74	Ge	2	366588	1.06	370200	99.0	30 - 120	
74	Ge	3	1396213	2.04	1354000	103.1	30 - 120	
103	Rh	2	664610	1.04	687700	96.6	30 - 120	
103	Rh	3	1236203	0.53	1280000	96.6	30 - 120	
165	Ho	3	2583931	0.86	2556000	101.1	30 - 120	
175	Lu	3	2855749	0.31	2887000	98.9	30 - 120	
209	Bi	3	5799614	0.77	5936000	97.7	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\060210B.B\010CALS.D\010CALS.D#
Date Acquired: Jun 2 2010 12:07 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	633555.3	P	29040.00	4.58
23	Na	45	2	10676500.0	A	203000.00	1.90
24	Mg	45	2	5960683.0	A	60460.00	1.01
27	Al	45	2	305107.8	P	3694.00	1.21
31	P	45	2	209923.4	P	587.00	0.28
39	K	45	2	4887909.0	A	24880.00	0.51
40	Ca	45	1	17823690.0	A	230900.00	1.30
47	Ti	45	2	12351.0	P	94.53	0.77
51	V	45	2	286002.2	P	3057.00	1.07
52	Cr	45	2	327221.7	P	5588.00	1.71
54	Fe	74	1	1964037.0	A	4490.00	0.23
55	Mn	45	2	234689.4	P	2261.00	0.96
59	Co	45	2	427177.4	P	4948.00	1.16
60	Ni	45	2	108875.6	P	1361.00	1.25
63	Cu	45	2	280365.1	P	4093.00	1.46
66	Zn	45	2	63032.1	P	1560.00	2.47
75	As	74	2	40815.5	P	441.00	1.08
78	Se	74	1	11805.0	P	191.20	1.62
88	Sr	74	3	1212072.0	M	36510.00	3.01
95	Mo	74	3	251174.7	P	8702.00	3.46
107	Ag	103	3	724337.6	P	23570.00	3.25
111	Cd	103	3	168550.3	P	8861.00	5.26
118	Sn	103	3	440563.6	P	25100.00	5.70
121	Sb	103	3	686606.9	P	32340.00	4.71
135	Ba	103	3	123673.3	P	3943.00	3.19
200	Hg	209	3	13515.2	P	364.50	2.70
205	Tl	209	3	2050631.0	A	122900.00	5.99
208	Pb	209	3	2832580.0	M	83870.00	2.96
238	U	209	3	3442763.0	A	173200.00	5.03

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)	Flag
6	Li	3	4915833	1.43	4716000	104.2	30 - 120	
45	Sc	1	635655	1.56	659800	96.3	30 - 120	
45	Sc	2	256245	0.99	256100	100.1	30 - 120	
74	Ge	1	476195	2.21	495700	96.1	30 - 120	
74	Ge	2	364368	1.18	370200	98.4	30 - 120	
74	Ge	3	1401103	1.13	1354000	103.5	30 - 120	
103	Rh	2	655662	0.87	687700	95.3	30 - 120	
103	Rh	3	1233766	0.97	1280000	96.4	30 - 120	
165	Ho	3	2545357	0.25	2556000	99.6	30 - 120	
175	Lu	3	2823299	0.89	2887000	97.8	30 - 120	
209	Bi	3	5646353	0.55	5936000	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\060210B.B\014SMPL.D\014SMPL.D#
Date Acquired: Jun 2 2010 12:36 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**41.180**	ug/l	41.18	0.6	450	6	P	
23	**Na**	2	**4098.000**	ug/l	4,098.00	0.5	450000	45	A	
24	**Mg**	2	**4086.000**	ug/l	4,086.00	1.4	450000	45	A	
27	**Al**	2	**401.400**	ug/l	401.40	1.7	450000	45	P	
31	**P**	2	**3962.000**	ug/l	3,962.00	2.2	450000	45	P	
39	**K**	2	**4104.000**	ug/l	4,104.00	2.2	450000	45	A	
40	**Ca**	1	**4080.000**	ug/l	4,080.00	1.0	450000	45	A	
47	**Ti**	2	**40.560**	ug/l	40.56	1.9	4500	45	P	
51	**V**	2	**39.440**	ug/l	39.44	0.8	4500	45	P	
52	**Cr**	2	**40.450**	ug/l	40.45	1.3	4500	45	P	
54	**Fe**	1	**4195.000**	ug/l	4,195.00	0.6	450000	74	P	
55	**Mn**	2	**40.520**	ug/l	40.52	1.4	15000	45	P	
59	**Co**	2	**40.690**	ug/l	40.69	0.9	4500	45	P	
60	**Ni**	2	**40.450**	ug/l	40.45	0.5	15000	45	P	
63	**Cu**	2	**40.460**	ug/l	40.46	0.9	15000	45	P	
66	**Zn**	2	**40.710**	ug/l	40.71	2.1	15000	45	P	
75	**As**	2	**39.850**	ug/l	39.85	0.8	4500	74	P	
78	**Se**	1	**39.100**	ug/l	39.10	3.3	450	74	P	
88	**Sr**	3	**41.550**	ug/l	41.55	1.4	4500	74	P	
95	**Mo**	3	**41.560**	ug/l	41.56	0.8	4500	74	P	
107	**Ag**	3	**41.440**	ug/l	41.44	1.7	450	103	P	
111	**Cd**	3	**42.380**	ug/l	42.38	2.1	900	103	P	
118	**Sn**	3	**42.210**	ug/l	42.21	2.5	4500	103	P	
121	**Sb**	3	**41.940**	ug/l	41.94	2.3	4500	103	P	
135	**Ba**	3	**41.660**	ug/l	41.66	3.4	4500	103	P	
200	**Hg**	3	**2.000**	ug/l	2.00	1.4	45	209	P	
205	**Tl**	3	**42.080**	ug/l	42.08	2.2	4500	209	P	
208	**Pb**	3	**42.010**	ug/l	42.01	1.0	4500	209	P	
238	**U**	3	**42.020**	ug/l	42.02	0.5	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4925022	0.96	4716000	**104.4**	30	-	120	
45	Sc	1	649728	1.26	659800	**98.5**	30	-	120	
45	Sc	2	260280	1.40	256100	**101.6**	30	-	120	
74	Ge	1	489643	1.33	495700	**98.8**	30	-	120	
74	Ge	2	373383	0.48	370200	**100.9**	30	-	120	
74	Ge	3	1429794	1.50	1354000	**105.6**	30	-	120	
103	Rh	2	680779	1.22	687700	**99.0**	30	-	120	
103	Rh	3	1252649	1.83	1280000	**97.9**	30	-	120	
165	Ho	3	2629001	0.87	2556000	**102.9**	30	-	120	
175	Lu	3	2927129	2.35	2887000	**101.4**	30	-	120	
209	Bi	3	5876169	0.66	5936000	**99.0**	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\060210B.B\015SMPL.D\015SMPL.D#
Date Acquired: Jun 2 2010 12:43 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	77.2	450	6	P	
23	**Na**	2	**-0.871**	ug/l	-0.87	97.3	450000	45	P	
24	**Mg**	2	**0.184**	ug/l	0.18	31.7	450000	45	P	
27	**Al**	2	**-0.086**	ug/l	-0.09	13.5	450000	45	P	
31	**P**	2	**-5.434**	ug/l	-5.43	15.4	450000	45	P	
39	**K**	2	**-10.970**	ug/l	-10.97	41.3	450000	45	P	
40	**Ca**	1	**0.261**	ug/l	0.26	232.8	450000	45	P	
47	**Ti**	2	**0.018**	ug/l	0.02	90.9	4500	45	P	
51	**V**	2	**-0.003**	ug/l	0.00	1290.9	4500	45	P	
52	**Cr**	2	**-0.001**	ug/l	0.00	2281.4	4500	45	P	
54	**Fe**	1	**0.575**	ug/l	0.57	123.0	450000	74	P	
55	**Mn**	2	**-0.004**	ug/l	0.00	118.2	15000	45	P	
59	**Co**	2	**0.003**	ug/l	0.00	35.5	4500	45	P	
60	**Ni**	2	**0.017**	ug/l	0.02	172.7	15000	45	P	
63	**Cu**	2	**-0.009**	ug/l	-0.01	302.5	15000	45	P	
66	**Zn**	2	**-0.042**	ug/l	-0.04	207.3	15000	45	P	
75	**As**	2	**-0.025**	ug/l	-0.02	145.2	4500	74	P	
78	**Se**	1	**-0.001**	ug/l	0.00	2100.2	450	74	P	
88	**Sr**	3	**0.001**	ug/l	0.00	348.8	4500	74	P	
95	**Mo**	3	**0.013**	ug/l	0.01	29.3	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	67.4	450	103	P	
111	**Cd**	3	**-0.005**	ug/l	0.00	277.9	900	103	P	
118	**Sn**	3	**0.015**	ug/l	0.02	90.6	4500	103	P	
121	**Sb**	3	**0.011**	ug/l	0.01	30.5	4500	103	P	
135	**Ba**	3	**0.000**	ug/l	0.00	4008.2	4500	103	P	
200	**Hg**	3	**0.014**	ug/l	0.01	74.9	45	209	P	
205	**Tl**	3	**0.186**	ug/l	0.19	3.5	4500	209	P	
208	**Pb**	3	**0.000**	ug/l	0.00	2888.2	4500	209	P	
238	**U**	3	**0.003**	ug/l	0.00	30.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4826746	1.63	4716000	**102.3**	30	-	120	
45	Sc	1	691038	0.64	659800	**104.7**	30	-	120	
45	Sc	2	262536	0.42	256100	**102.5**	30	-	120	
74	Ge	1	524429	1.44	495700	**105.8**	30	-	120	
74	Ge	2	383932	1.05	370200	**103.7**	30	-	120	
74	Ge	3	1403134	1.22	1354000	**103.6**	30	-	120	
103	Rh	2	713361	1.09	687700	**103.7**	30	-	120	
103	Rh	3	1291533	2.00	1280000	**100.9**	30	-	120	
165	Ho	3	2631833	0.69	2556000	**103.0**	30	-	120	
175	Lu	3	2974627	0.64	2887000	**103.0**	30	-	120	
209	Bi	3	6118876	2.22	5936000	**103.1**	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\060210B.B\017SMPL.D\017SMPL.D#
Date Acquired: Jun 2 2010 12:57 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**2.017**	ug/l	2.02	7.6	450	6	P	
23	**Na**	2	**207.800**	ug/l	207.80	1.5	450000	45	P	
24	**Mg**	2	**211.600**	ug/l	211.60	0.9	450000	45	P	
27	**Al**	2	**19.250**	ug/l	19.25	1.3	450000	45	P	
31	**P**	2	**195.200**	ug/l	195.20	7.5	450000	45	P	
39	**K**	2	**198.800**	ug/l	198.80	1.7	450000	45	P	
40	**Ca**	1	**220.400**	ug/l	220.40	0.8	450000	45	P	
47	**Ti**	2	**2.144**	ug/l	2.14	2.8	4500	45	P	
51	**V**	2	**1.965**	ug/l	1.97	5.0	4500	45	P	
52	**Cr**	2	**2.058**	ug/l	2.06	4.7	4500	45	P	
54	**Fe**	1	**214.000**	ug/l	214.00	0.4	450000	74	P	
55	**Mn**	2	**2.056**	ug/l	2.06	1.8	15000	45	P	
59	**Co**	2	**2.073**	ug/l	2.07	0.4	4500	45	P	
60	**Ni**	2	**2.066**	ug/l	2.07	6.0	15000	45	P	
63	**Cu**	2	**2.072**	ug/l	2.07	8.4	15000	45	P	
66	**Zn**	2	**1.948**	ug/l	1.95	6.7	15000	45	P	
75	**As**	2	**1.990**	ug/l	1.99	12.8	4500	74	P	
78	**Se**	1	**1.843**	ug/l	1.84	5.8	450	74	P	
88	**Sr**	3	**2.035**	ug/l	2.04	9.1	4500	74	P	
95	**Mo**	3	**2.063**	ug/l	2.06	5.7	4500	74	P	
107	**Ag**	3	**2.010**	ug/l	2.01	4.8	450	103	P	
111	**Cd**	3	**1.975**	ug/l	1.98	11.5	900	103	P	
118	**Sn**	3	**1.945**	ug/l	1.95	10.3	4500	103	P	
121	**Sb**	3	**1.987**	ug/l	1.99	7.5	4500	103	P	
135	**Ba**	3	**1.935**	ug/l	1.94	11.1	4500	103	P	
200	**Hg**	3	**0.045**	ug/l	0.04	87.1	45	209	P	
205	**Tl**	3	**2.019**	ug/l	2.02	5.6	4500	209	P	
208	**Pb**	3	**2.030**	ug/l	2.03	4.9	4500	209	P	
238	**U**	3	**2.018**	ug/l	2.02	7.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4804345	1.20	4716000	**101.9**	30	-	120	
45	Sc	1	674397	1.59	659800	**102.2**	30	-	120	
45	Sc	2	265212	1.08	256100	**103.6**	30	-	120	
74	Ge	1	511156	1.18	495700	**103.1**	30	-	120	
74	Ge	2	382991	1.28	370200	**103.5**	30	-	120	
74	Ge	3	1393596	1.55	1354000	**102.9**	30	-	120	
103	Rh	2	712979	0.60	687700	**103.7**	30	-	120	
103	Rh	3	1303559	1.39	1280000	**101.8**	30	-	120	
165	Ho	3	2659325	0.34	2556000	**104.0**	30	-	120	
175	Lu	3	2917799	1.53	2887000	**101.1**	30	-	120	
209	Bi	3	6125623	0.54	5936000	**103.2**	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\060210B.B\018SMPL.D\018SMPL.D#
Date Acquired: Jun 2 2010 01:05 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	292.7	450	6	P	
23	**Na**	2	**241100.000**	ug/l	241,100.00	1.0	450000	45	A	
24	**Mg**	2	**94630.000**	ug/l	94,630.00	1.5	450000	45	A	
27	**Al**	2	**91910.000**	ug/l	91,910.00	0.7	450000	45	A	
31	**P**	2	**99630.000**	ug/l	99,630.00	2.2	450000	45	A	
39	**K**	2	**94410.000**	ug/l	94,410.00	1.5	450000	45	A	
40	**Ca**	1	**300000.000**	ug/l	300,000.00	0.2	450000	45	A	
47	**Ti**	2	**1925.000**	ug/l	1,925.00	1.5	4500	45	P	
51	**V**	2	**0.069**	ug/l	0.07	21.8	4500	45	P	
52	**Cr**	2	**1.014**	ug/l	1.01	2.8	4500	45	P	
54	**Fe**	1	**234000.000**	ug/l	234,000.00	0.5	450000	74	A	
55	**Mn**	2	**5.527**	ug/l	5.53	4.6	15000	45	P	
59	**Co**	2	**3.494**	ug/l	3.49	2.6	4500	45	P	
60	**Ni**	2	**2.633**	ug/l	2.63	11.2	15000	45	P	
63	**Cu**	2	**3.599**	ug/l	3.60	5.3	15000	45	P	
66	**Zn**	2	**3.131**	ug/l	3.13	11.1	15000	45	P	
75	**As**	2	**0.402**	ug/l	0.40	4.9	4500	74	P	
78	**Se**	1	**0.051**	ug/l	0.05	33.4	450	74	P	
88	**Sr**	3	**16.410**	ug/l	16.41	4.2	4500	74	P	
95	**Mo**	3	**1957.000**	ug/l	1,957.00	4.3	4500	74	A	
107	**Ag**	3	**0.170**	ug/l	0.17	5.8	450	103	P	
111	**Cd**	3	**0.203**	ug/l	0.20	130.5	900	103	P	
118	**Sn**	3	**0.077**	ug/l	0.08	33.1	4500	103	P	
121	**Sb**	3	**0.624**	ug/l	0.62	5.1	4500	103	P	
135	**Ba**	3	**0.336**	ug/l	0.34	5.5	4500	103	P	
200	**Hg**	3	**0.018**	ug/l	0.02	204.8	45	209	P	
205	**Tl**	3	**0.058**	ug/l	0.06	7.8	4500	209	P	
208	**Pb**	3	**0.253**	ug/l	0.25	3.0	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.00	83.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4646895	0.77	4716000	**98.5**	30	-	120	
45	Sc	1	613749	0.91	659800	**93.0**	30	-	120	
45	Sc	2	235815	1.37	256100	**92.1**	30	-	120	
74	Ge	1	441255	1.64	495700	**89.0**	30	-	120	
74	Ge	2	321248	0.86	370200	**86.8**	30	-	120	
74	Ge	3	1279041	0.25	1354000	**94.5**	30	-	120	
103	Rh	2	536510	0.58	687700	**78.0**	30	-	120	
103	Rh	3	1063557	1.45	1280000	**83.1**	30	-	120	
165	Ho	3	2335495	1.12	2556000	**91.4**	30	-	120	
175	Lu	3	2605307	0.49	2887000	**90.2**	30	-	120	
209	Bi	3	4803935	1.18	5936000	**80.9**	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\060210B.B\019SMPL.D\019SMPL.D#
Date Acquired: Jun 2 2010 01:12 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	162.9	450	6	P	
23	**Na**	2	**249800.000**	ug/l	249,800.00	0.3	450000	45	A	
24	**Mg**	2	**96940.000**	ug/l	96,940.00	0.2	450000	45	A	
27	**Al**	2	**94050.000**	ug/l	94,050.00	0.4	450000	45	A	
31	**P**	2	**101000.000**	ug/l	101,000.00	1.2	450000	45	A	
39	**K**	2	**96350.000**	ug/l	96,350.00	0.8	450000	45	A	
40	**Ca**	1	**302100.000**	ug/l	302,100.00	0.6	450000	45	A	
47	**Ti**	2	**1930.000**	ug/l	1,930.00	0.3	4500	45	P	
51	**V**	2	**201.700**	ug/l	201.70	0.6	4500	45	P	
52	**Cr**	2	**198.400**	ug/l	198.40	0.7	4500	45	P	
54	**Fe**	1	**234200.000**	ug/l	234,200.00	1.3	450000	74	A	
55	**Mn**	2	**196.900**	ug/l	196.90	0.7	15000	45	P	
59	**Co**	2	**197.900**	ug/l	197.90	0.4	4500	45	P	
60	**Ni**	2	**193.900**	ug/l	193.90	0.8	15000	45	P	
63	**Cu**	2	**187.000**	ug/l	187.00	1.1	15000	45	P	
66	**Zn**	2	**95.270**	ug/l	95.27	0.9	15000	45	P	
75	**As**	2	**106.300**	ug/l	106.30	1.5	4500	74	P	
78	**Se**	1	**101.400**	ug/l	101.40	2.2	450	74	P	
88	**Sr**	3	**16.870**	ug/l	16.87	3.3	4500	74	P	
95	**Mo**	3	**2016.000**	ug/l	2,016.00	4.9	4500	74	A	
107	**Ag**	3	**50.300**	ug/l	50.30	1.6	450	103	P	
111	**Cd**	3	**102.900**	ug/l	102.90	4.8	900	103	P	
118	**Sn**	3	**0.107**	ug/l	0.11	3.1	4500	103	P	
121	**Sb**	3	**0.678**	ug/l	0.68	9.2	4500	103	P	
135	**Ba**	3	**0.336**	ug/l	0.34	11.1	4500	103	P	
200	**Hg**	3	**-0.040**	ug/l	-0.04	18.7	45	209	P	
205	**Tl**	3	**0.036**	ug/l	0.04	8.1	4500	209	P	
208	**Pb**	3	**0.253**	ug/l	0.25	8.1	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.00	60.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4603869	0.88	4716000	**97.6**	30	-	120	
45	Sc	1	604992	1.22	659800	**91.7**	30	-	120	
45	Sc	2	226120	0.47	256100	**88.3**	30	-	120	
74	Ge	1	436447	0.70	495700	**88.0**	30	-	120	
74	Ge	2	308788	0.14	370200	**83.4**	30	-	120	
74	Ge	3	1237189	1.30	1354000	**91.4**	30	-	120	
103	Rh	2	519373	1.20	687700	**75.5**	30	-	120	
103	Rh	3	1047845	0.22	1280000	**81.9**	30	-	120	
165	Ho	3	2288707	0.81	2556000	**89.5**	30	-	120	
175	Lu	3	2562574	0.49	2887000	**88.8**	30	-	120	
209	Bi	3	4791886	0.41	5936000	**80.7**	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\060210B.B\023SMPL.D\023SMPL.D#
Date Acquired: Jun 2 2010 01:40 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**50.770**	ug/l	50.77	5.9	450	6	P	
23	**Na**	2	**5003.000**	ug/l	5,003.00	2.0	450000	45	A	
24	**Mg**	2	**4983.000**	ug/l	4,983.00	1.6	450000	45	A	
27	**Al**	2	**493.200**	ug/l	493.20	1.2	450000	45	P	
31	**P**	2	**4894.000**	ug/l	4,894.00	1.6	450000	45	P	
39	**K**	2	**5100.000**	ug/l	5,100.00	1.5	450000	45	A	
40	**Ca**	1	**5213.000**	ug/l	5,213.00	1.9	450000	45	A	
47	**Ti**	2	**49.050**	ug/l	49.05	1.5	4500	45	P	
51	**V**	2	**49.190**	ug/l	49.19	2.0	4500	45	P	
52	**Cr**	2	**50.110**	ug/l	50.11	0.9	4500	45	P	
54	**Fe**	1	**5194.000**	ug/l	5,194.00	0.2	450000	74	P	
55	**Mn**	2	**50.360**	ug/l	50.36	0.4	15000	45	P	
59	**Co**	2	**50.570**	ug/l	50.57	0.5	4500	45	P	
60	**Ni**	2	**50.320**	ug/l	50.32	0.8	15000	45	P	
63	**Cu**	2	**50.110**	ug/l	50.11	1.2	15000	45	P	
66	**Zn**	2	**50.480**	ug/l	50.48	0.8	15000	45	P	
75	**As**	2	**50.070**	ug/l	50.07	1.5	4500	74	P	
78	**Se**	1	**48.570**	ug/l	48.57	2.4	450	74	P	
88	**Sr**	3	**50.850**	ug/l	50.85	4.1	4500	74	P	
95	**Mo**	3	**50.980**	ug/l	50.98	4.9	4500	74	P	
107	**Ag**	3	**50.080**	ug/l	50.08	2.8	450	103	P	
111	**Cd**	3	**50.080**	ug/l	50.08	6.6	900	103	P	
118	**Sn**	3	**50.290**	ug/l	50.29	6.8	4500	103	P	
121	**Sb**	3	**49.970**	ug/l	49.97	5.8	4500	103	P	
135	**Ba**	3	**49.670**	ug/l	49.67	6.1	4500	103	P	
200	**Hg**	3	**2.402**	ug/l	2.40	3.7	45	209	P	
205	**Tl**	3	**50.040**	ug/l	50.04	6.5	4500	209	P	
208	**Pb**	3	**49.970**	ug/l	49.97	4.7	4500	209	P	
238	**U**	3	**50.200**	ug/l	50.20	5.0	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4614941	1.03	4716000	**97.9**	30	-	120	
45	Sc	1	656729	1.26	659800	**99.5**	30	-	120	
45	Sc	2	253430	0.26	256100	**99.0**	30	-	120	
74	Ge	1	498799	0.99	495700	**100.6**	30	-	120	
74	Ge	2	363247	1.61	370200	**98.1**	30	-	120	
74	Ge	3	1377097	0.78	1354000	**101.7**	30	-	120	
103	Rh	2	669520	1.32	687700	**97.4**	30	-	120	
103	Rh	3	1242090	0.97	1280000	**97.0**	30	-	120	
165	Ho	3	2595822	0.63	2556000	**101.6**	30	-	120	
175	Lu	3	2896399	1.17	2887000	**100.3**	30	-	120	
209	Bi	3	5906021	1.12	5936000	**99.5**	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\060210B.B\024SMPL.D\024SMPL.D#
Date Acquired: Jun 2 2010 01:47 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	92.1	450	6	P	
23	**Na**	2	**-0.123**	ug/l	-0.12	3735.4	450000	45	P	
24	**Mg**	2	**0.502**	ug/l	0.50	32.7	450000	45	P	
27	**Al**	2	**-0.043**	ug/l	-0.04	168.3	450000	45	P	
31	**P**	2	**-6.557**	ug/l	-6.56	63.4	450000	45	P	
39	**K**	2	**-8.778**	ug/l	-8.78	77.9	450000	45	P	
40	**Ca**	1	**0.199**	ug/l	0.20	250.8	450000	45	P	
47	**Ti**	2	**0.022**	ug/l	0.02	101.6	4500	45	P	
51	**V**	2	**-0.024**	ug/l	-0.02	197.4	4500	45	P	
52	**Cr**	2	**0.004**	ug/l	0.00	1360.6	4500	45	P	
54	**Fe**	1	**0.443**	ug/l	0.44	177.2	450000	74	P	
55	**Mn**	2	**-0.005**	ug/l	0.00	87.8	15000	45	P	
59	**Co**	2	**0.003**	ug/l	0.00	51.6	4500	45	P	
60	**Ni**	2	**0.021**	ug/l	0.02	151.9	15000	45	P	
63	**Cu**	2	**-0.018**	ug/l	-0.02	101.9	15000	45	P	
66	**Zn**	2	**0.023**	ug/l	0.02	595.2	15000	45	P	
75	**As**	2	**-0.050**	ug/l	-0.05	68.9	4500	74	P	
78	**Se**	1	**-0.022**	ug/l	-0.02	0.0	450	74	P	
88	**Sr**	3	**0.000**	ug/l	0.00	2187.1	4500	74	P	
95	**Mo**	3	**0.011**	ug/l	0.01	78.9	4500	74	P	
107	**Ag**	3	**0.006**	ug/l	0.01	140.5	450	103	P	
111	**Cd**	3	**-0.003**	ug/l	0.00	147.8	900	103	P	
118	**Sn**	3	**0.025**	ug/l	0.02	59.2	4500	103	P	
121	**Sb**	3	**0.011**	ug/l	0.01	76.8	4500	103	P	
135	**Ba**	3	**-0.010**	ug/l	-0.01	76.2	4500	103	P	
200	**Hg**	3	**-0.035**	ug/l	-0.03	84.9	45	209	P	
205	**Tl**	3	**0.168**	ug/l	0.17	8.9	4500	209	P	
208	**Pb**	3	**0.003**	ug/l	0.00	78.9	4500	209	P	
238	**U**	3	**0.004**	ug/l	0.00	7.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4688740	3.17	4716000	**99.4**	30	-	120	
45	Sc	1	662399	0.98	659800	**100.4**	30	-	120	
45	Sc	2	258062	2.01	256100	**100.8**	30	-	120	
74	Ge	1	507497	1.55	495700	**102.4**	30	-	120	
74	Ge	2	370440	1.06	370200	**100.1**	30	-	120	
74	Ge	3	1375395	1.15	1354000	**101.6**	30	-	120	
103	Rh	2	695528	1.42	687700	**101.1**	30	-	120	
103	Rh	3	1280863	2.03	1280000	**100.1**	30	-	120	
165	Ho	3	2601202	1.03	2556000	**101.8**	30	-	120	
175	Lu	3	2930965	0.63	2887000	**101.5**	30	-	120	
209	Bi	3	6046304	1.57	5936000	**101.9**	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\060210B.B\025SMPL.D\025SMPL.D#
Date Acquired: Jun 2 2010 01:55 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64602/21-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.001**	ug/l	0.01	124.7	450	6	P	
23	**Na**	2	**-1.436**	ug/l	-14.36	69.6	450000	45	P	
24	**Mg**	2	**0.174**	ug/l	1.74	71.4	450000	45	P	
27	**Al**	2	**-0.157**	ug/l	-1.57	51.0	450000	45	P	
31	**P**	2	**-6.910**	ug/l	-69.10	62.2	450000	45	P	
39	**K**	2	**-9.038**	ug/l	-90.38	23.4	450000	45	P	
40	**Ca**	1	**-0.871**	ug/l	-8.71	35.6	450000	45	P	
47	**Ti**	2	**0.027**	ug/l	0.27	17.2	4500	45	P	
51	**V**	2	**-0.033**	ug/l	-0.33	22.3	4500	45	P	
52	**Cr**	2	**-0.001**	ug/l	-0.01	5687.3	4500	45	P	
54	**Fe**	1	**0.407**	ug/l	4.07	79.2	450000	74	P	
55	**Mn**	2	**-0.002**	ug/l	-0.02	200.0	15000	45	P	
59	**Co**	2	**0.001**	ug/l	0.01	200.0	4500	45	P	
60	**Ni**	2	**0.015**	ug/l	0.15	32.5	15000	45	P	
63	**Cu**	2	**-0.010**	ug/l	-0.10	125.0	15000	45	P	
66	**Zn**	2	**0.025**	ug/l	0.25	351.9	15000	45	P	
75	**As**	2	**-0.007**	ug/l	-0.07	536.3	4500	74	P	
78	**Se**	1	**0.005**	ug/l	0.05	478.5	450	74	P	
88	**Sr**	3	**-0.003**	ug/l	-0.03	26.6	4500	74	P	
95	**Mo**	3	**0.005**	ug/l	0.05	149.2	4500	74	P	
107	**Ag**	3	**0.002**	ug/l	0.02	156.2	450	103	P	
111	**Cd**	3	**-0.003**	ug/l	-0.03	531.8	900	103	P	
118	**Sn**	3	**-0.002**	ug/l	-0.02	317.7	4500	103	P	
121	**Sb**	3	**0.005**	ug/l	0.05	66.0	4500	103	P	
135	**Ba**	3	**-0.008**	ug/l	-0.08	266.1	4500	103	P	
200	**Hg**	3	**-0.015**	ug/l	-0.15	136.2	45	209	P	
205	**Tl**	3	**0.067**	ug/l	0.67	3.9	4500	209	P	
208	**Pb**	3	**-0.003**	ug/l	-0.03	89.6	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.01	122.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4693647	1.02	4716000	**99.5**	30	-	120	
45	Sc	1	656800	1.26	659800	**99.5**	30	-	120	
45	Sc	2	257803	0.63	256100	**100.7**	30	-	120	
74	Ge	1	505334	1.44	495700	**101.9**	30	-	120	
74	Ge	2	371351	1.33	370200	**100.3**	30	-	120	
74	Ge	3	1374498	2.21	1354000	**101.5**	30	-	120	
103	Rh	2	702173	0.97	687700	**102.1**	30	-	120	
103	Rh	3	1284896	3.65	1280000	**100.4**	30	-	120	
165	Ho	3	2580523	0.29	2556000	**101.0**	30	-	120	
175	Lu	3	2907059	1.40	2887000	**100.7**	30	-	120	
209	Bi	3	6084910	1.42	5936000	**102.5**	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\060210B.B\026SMPL.D\026SMPL.D#
Date Acquired: Jun 2 2010 02:02 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-16-B 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.081**	ug/l	4.03	22.0	450	6	P	
23	**Na**	2	**-1.218**	ug/l	-60.90	161.7	450000	45	P	
24	**Mg**	2	**7873.000**	ug/l	393,650.00	0.5	450000	45	A	
27	**Al**	2	**701.600**	ug/l	35,080.00	1.3	450000	45	P	
31	**P**	2	**46.890**	ug/l	2,344.50	7.2	450000	45	P	
39	**K**	2	**33.540**	ug/l	1,677.00	15.7	450000	45	P	
40	**Ca**	1	**128.100**	ug/l	6,405.00	1.0	450000	45	P	
47	**Ti**	2	**12.130**	ug/l	606.50	2.5	4500	45	P	
51	**V**	2	**8.001**	ug/l	400.05	2.4	4500	45	P	
52	**Cr**	2	**247.800**	ug/l	12,390.00	0.9	4500	45	P	
54	**Fe**	1	**30140.000**	ug/l	1,507,000.00	0.9	450000	74	A	
55	**Mn**	2	**237.600**	ug/l	11,880.00	0.3	15000	45	P	
59	**Co**	2	**37.240**	ug/l	1,862.00	0.2	4500	45	P	
60	**Ni**	2	**653.600**	ug/l	32,680.00	0.7	15000	45	P	
63	**Cu**	2	**6.240**	ug/l	312.00	1.5	15000	45	P	
66	**Zn**	2	**14.080**	ug/l	704.00	3.4	15000	45	P	
75	**As**	2	**0.417**	ug/l	20.85	20.9	4500	74	P	
78	**Se**	1	**0.038**	ug/l	1.92	25.5	450	74	P	
88	**Sr**	3	**0.773**	ug/l	38.64	6.2	4500	74	P	
95	**Mo**	3	**0.077**	ug/l	3.83	22.0	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.14	75.1	450	103	P	
111	**Cd**	3	**0.061**	ug/l	3.07	42.4	900	103	P	
118	**Sn**	3	**0.132**	ug/l	6.61	7.2	4500	103	P	
121	**Sb**	3	**0.439**	ug/l	21.95	5.0	4500	103	P	
135	**Ba**	3	**11.390**	ug/l	569.50	5.6	4500	103	P	
200	**Hg**	3	**4.664**	ug/l	233.20	4.9	45	209	P	
205	**Tl**	3	**0.116**	ug/l	5.78	11.6	4500	209	P	
208	**Pb**	3	**6.281**	ug/l	314.05	4.4	4500	209	P	
238	**U**	3	**0.066**	ug/l	3.29	16.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4502210	0.90	4716000	**95.5**	30	-	120	
45	Sc	1	656286	1.35	659800	**99.5**	30	-	120	
45	Sc	2	256572	0.43	256100	**100.2**	30	-	120	
74	Ge	1	492785	1.60	495700	**99.4**	30	-	120	
74	Ge	2	367060	1.79	370200	**99.2**	30	-	120	
74	Ge	3	1384765	1.20	1354000	**102.3**	30	-	120	
103	Rh	2	671729	0.93	687700	**97.7**	30	-	120	
103	Rh	3	1256540	1.68	1280000	**98.2**	30	-	120	
165	Ho	3	2611570	0.58	2556000	**102.2**	30	-	120	
175	Lu	3	2958555	0.75	2887000	**102.5**	30	-	120	
209	Bi	3	5967538	0.81	5936000	**100.5**	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\060210B.B\027SMPL.D\027SMPL.D#
Date Acquired: Jun 2 2010 02:09 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-16-B 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.448**	ug/l	4.48	3.5	450	6	P	
23	**Na**	2	**28.900**	ug/l	289.00	7.1	450000	45	P	
24	**Mg**	2	**37080.000**	ug/l	370,800.00	1.0	450000	45	A	
27	**Al**	2	**3413.000**	ug/l	34,130.00	0.5	450000	45	P	
31	**P**	2	**237.300**	ug/l	2,373.00	1.6	450000	45	P	
39	**K**	2	**184.200**	ug/l	1,842.00	3.6	450000	45	P	
40	**Ca**	1	**622.300**	ug/l	6,223.00	1.0	450000	45	A	
47	**Ti**	2	**59.210**	ug/l	592.10	1.8	4500	45	P	
51	**V**	2	**39.130**	ug/l	391.30	2.7	4500	45	P	
52	**Cr**	2	**1152.000**	ug/l	11,520.00	0.7	4500	45	A	
54	**Fe**	1	**153400.000**	ug/l	1,534,000.00	1.4	450000	74	A	
55	**Mn**	2	**1144.000**	ug/l	11,440.00	1.0	15000	45	A	
59	**Co**	2	**180.200**	ug/l	1,802.00	0.6	4500	45	P	
60	**Ni**	2	**3077.000**	ug/l	30,770.00	0.8	15000	45	A	
63	**Cu**	2	**29.220**	ug/l	292.20	2.4	15000	45	P	
66	**Zn**	2	**68.880**	ug/l	688.80	0.7	15000	45	P	
75	**As**	2	**2.293**	ug/l	22.93	3.6	4500	74	P	
78	**Se**	1	**0.107**	ug/l	1.07	67.9	450	74	P	
88	**Sr**	3	**4.035**	ug/l	40.35	0.8	4500	74	P	
95	**Mo**	3	**0.343**	ug/l	3.43	2.6	4500	74	P	
107	**Ag**	3	**0.038**	ug/l	0.38	21.0	450	103	P	
111	**Cd**	3	**0.257**	ug/l	2.57	24.3	900	103	P	
118	**Sn**	3	**0.675**	ug/l	6.75	12.5	4500	103	P	
121	**Sb**	3	**2.240**	ug/l	22.40	3.8	4500	103	P	
135	**Ba**	3	**60.510**	ug/l	605.10	0.3	4500	103	P	
200	**Hg**	3	**24.420**	ug/l	244.20	1.3	45	209	P	
205	**Tl**	3	**0.459**	ug/l	4.59	2.2	4500	209	P	
208	**Pb**	3	**32.940**	ug/l	329.40	0.7	4500	209	P	
238	**U**	3	**0.359**	ug/l	3.59	4.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3907552	0.80	4716000	**82.9**	30	-	120	
45	Sc	1	658012	0.42	659800	**99.7**	30	-	120	
45	Sc	2	249223	0.42	256100	**97.3**	30	-	120	
74	Ge	1	463859	1.83	495700	**93.6**	30	-	120	
74	Ge	2	342740	1.34	370200	**92.6**	30	-	120	
74	Ge	3	1253376	2.12	1354000	**92.6**	30	-	120	
103	Rh	2	624882	0.79	687700	**90.9**	30	-	120	
103	Rh	3	1160631	1.16	1280000	**90.7**	30	-	120	
165	Ho	3	2544041	1.24	2556000	**99.5**	30	-	120	
175	Lu	3	2831828	0.47	2887000	**98.1**	30	-	120	
209	Bi	3	5651334	0.81	5936000	**95.2**	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\060210B.B\028SMPL.D\028SMPL.D#
Date Acquired: Jun 2 2010 02:16 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-16-C 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.473**	ug/l	4.73	5.9	450	6	P	
23	**Na**	2	**30.840**	ug/l	308.40	6.4	450000	45	P	
24	**Mg**	2	**36400.000**	ug/l	364,000.00	1.9	450000	45	A	
27	**Al**	2	**3333.000**	ug/l	33,330.00	1.4	450000	45	P	
31	**P**	2	**233.100**	ug/l	2,331.00	3.9	450000	45	P	
39	**K**	2	**179.800**	ug/l	1,798.00	0.7	450000	45	P	
40	**Ca**	1	**601.300**	ug/l	6,013.00	1.6	450000	45	A	
47	**Ti**	2	**57.710**	ug/l	577.10	1.6	4500	45	P	
51	**V**	2	**37.990**	ug/l	379.90	0.8	4500	45	P	
52	**Cr**	2	**1121.000**	ug/l	11,210.00	0.4	4500	45	A	
54	**Fe**	1	**148000.000**	ug/l	1,480,000.00	2.2	450000	74	A	
55	**Mn**	2	**1093.000**	ug/l	10,930.00	2.3	15000	45	A	
59	**Co**	2	**175.200**	ug/l	1,752.00	0.7	4500	45	P	
60	**Ni**	2	**2993.000**	ug/l	29,930.00	1.9	15000	45	A	
63	**Cu**	2	**28.260**	ug/l	282.60	1.9	15000	45	P	
66	**Zn**	2	**67.290**	ug/l	672.90	1.2	15000	45	P	
75	**As**	2	**2.368**	ug/l	23.68	6.8	4500	74	P	
78	**Se**	1	**0.082**	ug/l	0.82	20.2	450	74	P	
88	**Sr**	3	**3.967**	ug/l	39.67	2.9	4500	74	P	
95	**Mo**	3	**0.289**	ug/l	2.89	17.1	4500	74	P	
107	**Ag**	3	**0.040**	ug/l	0.40	6.3	450	103	P	
111	**Cd**	3	**0.216**	ug/l	2.16	11.8	900	103	P	
118	**Sn**	3	**0.640**	ug/l	6.40	3.6	4500	103	P	
121	**Sb**	3	**2.216**	ug/l	22.16	3.9	4500	103	P	
135	**Ba**	3	**58.270**	ug/l	582.70	1.0	4500	103	P	
200	**Hg**	3	**23.960**	ug/l	239.60	0.8	45	209	P	
205	**Tl**	3	**0.451**	ug/l	4.51	3.1	4500	209	P	
208	**Pb**	3	**32.360**	ug/l	323.60	1.4	4500	209	P	
238	**U**	3	**0.341**	ug/l	3.41	2.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3905090	1.19	4716000	**82.8**	30	-	120	
45	Sc	1	657207	0.83	659800	**99.6**	30	-	120	
45	Sc	2	245047	0.22	256100	**95.7**	30	-	120	
74	Ge	1	466750	2.34	495700	**94.2**	30	-	120	
74	Ge	2	331446	0.30	370200	**89.5**	30	-	120	
74	Ge	3	1240198	1.48	1354000	**91.6**	30	-	120	
103	Rh	2	612201	0.58	687700	**89.0**	30	-	120	
103	Rh	3	1151346	0.88	1280000	**89.9**	30	-	120	
165	Ho	3	2489659	2.69	2556000	**97.4**	30	-	120	
175	Lu	3	2795228	0.72	2887000	**96.8**	30	-	120	
209	Bi	3	5578370	1.15	5936000	**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\060210B.B\029SMPL.D\029SMPL.D#
Date Acquired: Jun 2 2010 02:23 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-16-D 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**2.223**	ug/l	111.15	4.7	450	6	P	
23	**Na**	2	**450.200**	ug/l	22,510.00	0.8	450000	45	P	
24	**Mg**	2	**8062.000**	ug/l	403,100.00	0.8	450000	45	A	
27	**Al**	2	**782.100**	ug/l	39,105.00	0.7	450000	45	P	
31	**P**	2	**453.400**	ug/l	22,670.00	2.0	450000	45	P	
39	**K**	2	**487.800**	ug/l	24,390.00	0.3	450000	45	P	
40	**Ca**	1	**589.700**	ug/l	29,485.00	0.3	450000	45	M	
47	**Ti**	2	**114.900**	ug/l	5,745.00	1.0	4500	45	P	
51	**V**	2	**28.690**	ug/l	1,434.50	0.8	4500	45	P	
52	**Cr**	2	**247.900**	ug/l	12,395.00	0.7	4500	45	P	
54	**Fe**	1	**29530.000**	ug/l	1,476,500.00	1.6	450000	74	A	
55	**Mn**	2	**253.800**	ug/l	12,690.00	0.2	15000	45	P	
59	**Co**	2	**57.980**	ug/l	2,899.00	0.6	4500	45	P	
60	**Ni**	2	**660.400**	ug/l	33,020.00	0.5	15000	45	P	
63	**Cu**	2	**16.990**	ug/l	849.50	2.7	15000	45	P	
66	**Zn**	2	**37.250**	ug/l	1,862.50	1.3	15000	45	P	
75	**As**	2	**82.950**	ug/l	4,147.50	0.5	4500	74	P	
78	**Se**	1	**85.770**	ug/l	4,288.50	2.1	450	74	P	
88	**Sr**	3	**0.746**	ug/l	37.29	4.1	4500	74	P	
95	**Mo**	3	**107.500**	ug/l	5,375.00	4.8	4500	74	P	
107	**Ag**	3	**12.800**	ug/l	640.00	4.0	450	103	P	
111	**Cd**	3	**2.178**	ug/l	108.90	6.3	900	103	P	
118	**Sn**	3	**108.900**	ug/l	5,445.00	6.7	4500	103	P	
121	**Sb**	3	**60.520**	ug/l	3,026.00	4.5	4500	103	P	
135	**Ba**	3	**95.330**	ug/l	4,766.50	6.4	4500	103	P	
200	**Hg**	3	**5.426**	ug/l	271.30	3.0	45	209	P	
205	**Tl**	3	**85.160**	ug/l	4,258.00	1.3	4500	209	A	
208	**Pb**	3	**27.230**	ug/l	1,361.50	4.5	4500	209	P	
238	**U**	3	**0.062**	ug/l	3.09	2.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4633043	0.68	4716000	**98.2**	30	-	120	
45	Sc	1	648678	2.39	659800	**98.3**	30	-	120	
45	Sc	2	252184	1.17	256100	**98.5**	30	-	120	
74	Ge	1	493008	1.50	495700	**99.5**	30	-	120	
74	Ge	2	362890	0.69	370200	**98.0**	30	-	120	
74	Ge	3	1375381	1.36	1354000	**101.6**	30	-	120	
103	Rh	2	667174	1.11	687700	**97.0**	30	-	120	
103	Rh	3	1248547	0.68	1280000	**97.5**	30	-	120	
165	Ho	3	2599310	1.03	2556000	**101.7**	30	-	120	
175	Lu	3	2890467	1.17	2887000	**100.1**	30	-	120	
209	Bi	3	5909883	1.08	5936000	**99.6**	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\060210B.B\030SMPL.D\030SMPL.D#
Date Acquired: Jun 2 2010 02:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-16-E 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**2.083**	ug/l	104.15	8.3	450	6	P	
23	**Na**	2	**423.200**	ug/l	21,160.00	0.9	450000	45	P	
24	**Mg**	2	**7643.000**	ug/l	382,150.00	1.0	450000	45	A	
27	**Al**	2	**742.600**	ug/l	37,130.00	0.4	450000	45	P	
31	**P**	2	**419.500**	ug/l	20,975.00	2.7	450000	45	P	
39	**K**	2	**459.300**	ug/l	22,965.00	1.6	450000	45	P	
40	**Ca**	1	**567.700**	ug/l	28,385.00	2.1	450000	45	M	
47	**Ti**	2	**109.300**	ug/l	5,465.00	0.7	4500	45	P	
51	**V**	2	**26.950**	ug/l	1,347.50	0.6	4500	45	P	
52	**Cr**	2	**232.200**	ug/l	11,610.00	0.6	4500	45	P	
54	**Fe**	1	**28440.000**	ug/l	1,422,000.00	1.0	450000	74	A	
55	**Mn**	2	**239.700**	ug/l	11,985.00	0.4	15000	45	P	
59	**Co**	2	**54.960**	ug/l	2,748.00	0.2	4500	45	P	
60	**Ni**	2	**627.700**	ug/l	31,385.00	0.6	15000	45	P	
63	**Cu**	2	**15.810**	ug/l	790.50	0.5	15000	45	P	
66	**Zn**	2	**34.050**	ug/l	1,702.50	3.1	15000	45	P	
75	**As**	2	**80.910**	ug/l	4,045.50	1.8	4500	74	P	
78	**Se**	1	**82.640**	ug/l	4,132.00	3.3	450	74	P	
88	**Sr**	3	**0.712**	ug/l	35.61	2.5	4500	74	P	
95	**Mo**	3	**101.600**	ug/l	5,080.00	6.1	4500	74	P	
107	**Ag**	3	**12.280**	ug/l	614.00	5.4	450	103	P	
111	**Cd**	3	**2.206**	ug/l	110.30	11.4	900	103	P	
118	**Sn**	3	**104.300**	ug/l	5,215.00	7.7	4500	103	P	
121	**Sb**	3	**58.210**	ug/l	2,910.50	5.4	4500	103	P	
135	**Ba**	3	**90.750**	ug/l	4,537.50	6.5	4500	103	P	
200	**Hg**	3	**5.154**	ug/l	257.70	3.9	45	209	P	
205	**Tl**	3	**82.000**	ug/l	4,100.00	1.6	4500	209	A	
208	**Pb**	3	**26.230**	ug/l	1,311.50	5.1	4500	209	P	
238	**U**	3	**0.062**	ug/l	3.08	10.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4856538	0.56	4716000	**103.0**	30	-	120	
45	Sc	1	663316	1.52	659800	**100.5**	30	-	120	
45	Sc	2	258978	1.18	256100	**101.1**	30	-	120	
74	Ge	1	497580	0.34	495700	**100.4**	30	-	120	
74	Ge	2	366677	1.98	370200	**99.0**	30	-	120	
74	Ge	3	1401787	0.99	1354000	**103.5**	30	-	120	
103	Rh	2	665916	0.71	687700	**96.8**	30	-	120	
103	Rh	3	1259928	1.34	1280000	**98.4**	30	-	120	
165	Ho	3	2602037	1.25	2556000	**101.8**	30	-	120	
175	Lu	3	2914645	0.93	2887000	**101.0**	30	-	120	
209	Bi	3	5903611	0.95	5936000	**99.5**	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\060210B.B\031SMPL.D\031SMPL.D#
Date Acquired: Jun 2 2010 02:38 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-16-B 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	7.0	450	6	P	
23	**Na**	2	**399.100**	ug/l	19,955.00	1.4	450000	45	P	
24	**Mg**	2	**7200.000**	ug/l	360,000.00	1.5	450000	45	A	
27	**Al**	2	**702.600**	ug/l	35,130.00	0.6	450000	45	P	
31	**P**	2	**412.200**	ug/l	20,610.00	3.3	450000	45	P	
39	**K**	2	**436.400**	ug/l	21,820.00	0.7	450000	45	P	
40	**Ca**	1	**532.800**	ug/l	26,640.00	1.1	450000	45	P	
47	**Ti**	2	**103.700**	ug/l	5,185.00	1.3	4500	45	P	
51	**V**	2	**25.940**	ug/l	1,297.00	0.9	4500	45	P	
52	**Cr**	2	**220.200**	ug/l	11,010.00	0.3	4500	45	P	
54	**Fe**	1	**26940.000**	ug/l	1,347,000.00	1.8	450000	74	A	
55	**Mn**	2	**227.000**	ug/l	11,350.00	0.3	15000	45	P	
59	**Co**	2	**52.130**	ug/l	2,606.50	0.9	4500	45	P	
60	**Ni**	2	**596.300**	ug/l	29,815.00	1.4	15000	45	P	
63	**Cu**	2	**15.220**	ug/l	761.00	1.0	15000	45	P	
66	**Zn**	2	**32.080**	ug/l	1,604.00	1.3	15000	45	P	
75	**As**	2	**76.350**	ug/l	3,817.50	1.4	4500	74	P	
78	**Se**	1	**78.360**	ug/l	3,918.00	0.9	450	74	P	
88	**Sr**	3	**0.675**	ug/l	33.74	2.3	4500	74	P	
95	**Mo**	3	**98.240**	ug/l	4,912.00	4.5	4500	74	P	
107	**Ag**	3	**11.800**	ug/l	590.00	3.3	450	103	P	
111	**Cd**	3	**2.013**	ug/l	100.65	11.9	900	103	P	
118	**Sn**	3	**100.800**	ug/l	5,040.00	6.9	4500	103	P	
121	**Sb**	3	**55.840**	ug/l	2,792.00	4.1	4500	103	P	
135	**Ba**	3	**88.530**	ug/l	4,426.50	3.4	4500	103	P	
200	**Hg**	3	**4.878**	ug/l	243.90	2.7	45	209	P	
205	**Tl**	3	**77.710**	ug/l	3,885.50	2.3	4500	209	A	
208	**Pb**	3	**24.980**	ug/l	1,249.00	3.9	4500	209	P	
238	**U**	3	**0.058**	ug/l	2.90	2.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4836916	0.87	4716000	**102.6**	30	-	120	
45	Sc	1	666067	1.27	659800	**100.9**	30	-	120	
45	Sc	2	260058	0.83	256100	**101.5**	30	-	120	
74	Ge	1	496859	1.50	495700	**100.2**	30	-	120	
74	Ge	2	367827	1.01	370200	**99.4**	30	-	120	
74	Ge	3	1401032	0.47	1354000	**103.5**	30	-	120	
103	Rh	2	675840	0.57	687700	**98.3**	30	-	120	
103	Rh	3	1263560	1.33	1280000	**98.7**	30	-	120	
165	Ho	3	2599144	1.70	2556000	**101.7**	30	-	120	
175	Lu	3	2893917	0.32	2887000	**100.2**	30	-	120	
209	Bi	3	5955665	0.47	5936000	**100.3**	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\060210B.B\032SMPL.D\032SMPL.D#
Date Acquired: Jun 2 2010 02:45 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64602/22-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	3.9	450	6	P	
23	**Na**	2	**412.200**	ug/l	20,610.00	1.8	450000	45	P	
24	**Mg**	2	**418.800**	ug/l	20,940.00	1.6	450000	45	P	
27	**Al**	2	**80.790**	ug/l	4,039.50	1.8	450000	45	P	
31	**P**	2	**390.400**	ug/l	19,520.00	2.8	450000	45	P	
39	**K**	2	**419.400**	ug/l	20,970.00	2.6	450000	45	P	
40	**Ca**	1	**428.100**	ug/l	21,405.00	2.2	450000	45	P	
47	**Ti**	2	**96.220**	ug/l	4,811.00	1.0	4500	45	P	
51	**V**	2	**19.670**	ug/l	983.50	2.2	4500	45	P	
52	**Cr**	2	**8.183**	ug/l	409.15	1.4	4500	45	P	
54	**Fe**	1	**457.900**	ug/l	22,895.00	1.9	450000	74	P	
55	**Mn**	2	**20.270**	ug/l	1,013.50	0.8	15000	45	P	
59	**Co**	2	**20.540**	ug/l	1,027.00	1.3	4500	45	P	
60	**Ni**	2	**20.630**	ug/l	1,031.50	4.3	15000	45	P	
63	**Cu**	2	**10.740**	ug/l	537.00	0.8	15000	45	P	
66	**Zn**	2	**19.820**	ug/l	991.00	1.4	15000	45	P	
75	**As**	2	**79.220**	ug/l	3,961.00	1.9	4500	74	P	
78	**Se**	1	**79.280**	ug/l	3,964.00	1.8	450	74	P	
88	**Sr**	3	**0.000**	ug/l	-0.02	273.4	4500	74	P	
95	**Mo**	3	**101.200**	ug/l	5,060.00	5.4	4500	74	P	
107	**Ag**	3	**12.210**	ug/l	610.50	2.6	450	103	P	
111	**Cd**	3	**1.964**	ug/l	98.20	4.0	900	103	P	
118	**Sn**	3	**101.300**	ug/l	5,065.00	4.6	4500	103	P	
121	**Sb**	3	**57.200**	ug/l	2,860.00	4.1	4500	103	P	
135	**Ba**	3	**77.300**	ug/l	3,865.00	4.3	4500	103	P	
200	**Hg**	3	**0.780**	ug/l	39.01	7.4	45	209	P	
205	**Tl**	3	**77.640**	ug/l	3,882.00	5.1	4500	209	A	
208	**Pb**	3	**20.060**	ug/l	1,003.00	3.9	4500	209	P	
238	**U**	3	**-0.001**	ug/l	-0.03	0.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4686787	2.20	4716000	**99.4**	30	-	120	
45	Sc	1	651472	0.64	659800	**98.7**	30	-	120	
45	Sc	2	255363	1.55	256100	**99.7**	30	-	120	
74	Ge	1	492311	2.74	495700	**99.3**	30	-	120	
74	Ge	2	373616	2.06	370200	**100.9**	30	-	120	
74	Ge	3	1391158	1.25	1354000	**102.7**	30	-	120	
103	Rh	2	693938	1.43	687700	**100.9**	30	-	120	
103	Rh	3	1290813	0.22	1280000	**100.8**	30	-	120	
165	Ho	3	2613230	0.21	2556000	**102.2**	30	-	120	
175	Lu	3	2908631	0.94	2887000	**100.7**	30	-	120	
209	Bi	3	6108050	0.45	5936000	**102.9**	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\060210B.B\033SMPL.D\033SMPL.D#
Date Acquired: Jun 2 2010 02:52 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64602/23-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**1.958**	ug/l	97.90	6.6	450	6	P	
23	**Na**	2	**402.000**	ug/l	20,100.00	0.5	450000	45	P	
24	**Mg**	2	**410.300**	ug/l	20,515.00	1.2	450000	45	P	
27	**Al**	2	**76.200**	ug/l	3,810.00	1.5	450000	45	P	
31	**P**	2	**372.400**	ug/l	18,620.00	2.8	450000	45	P	
39	**K**	2	**405.400**	ug/l	20,270.00	1.2	450000	45	P	
40	**Ca**	1	**430.100**	ug/l	21,505.00	2.1	450000	45	P	
47	**Ti**	2	**94.590**	ug/l	4,729.50	0.9	4500	45	P	
51	**V**	2	**19.530**	ug/l	976.50	1.4	4500	45	P	
52	**Cr**	2	**7.947**	ug/l	397.35	2.0	4500	45	P	
54	**Fe**	1	**456.800**	ug/l	22,840.00	1.3	450000	74	P	
55	**Mn**	2	**19.890**	ug/l	994.50	1.1	15000	45	P	
59	**Co**	2	**20.080**	ug/l	1,004.00	0.9	4500	45	P	
60	**Ni**	2	**20.050**	ug/l	1,002.50	3.0	15000	45	P	
63	**Cu**	2	**10.240**	ug/l	512.00	2.7	15000	45	P	
66	**Zn**	2	**19.730**	ug/l	986.50	3.0	15000	45	P	
75	**As**	2	**80.150**	ug/l	4,007.50	1.0	4500	74	P	
78	**Se**	1	**79.600**	ug/l	3,980.00	0.6	450	74	P	
88	**Sr**	3	**0.002**	ug/l	0.09	133.0	4500	74	P	
95	**Mo**	3	**100.600**	ug/l	5,030.00	4.3	4500	74	P	
107	**Ag**	3	**12.220**	ug/l	611.00	4.5	450	103	P	
111	**Cd**	3	**2.038**	ug/l	101.90	12.2	900	103	P	
118	**Sn**	3	**99.560**	ug/l	4,978.00	6.4	4500	103	P	
121	**Sb**	3	**56.940**	ug/l	2,847.00	5.3	4500	103	P	
135	**Ba**	3	**78.770**	ug/l	3,938.50	5.0	4500	103	P	
200	**Hg**	3	**0.722**	ug/l	36.08	8.2	45	209	P	
205	**Tl**	3	**77.990**	ug/l	3,899.50	7.3	4500	209	A	
208	**Pb**	3	**20.070**	ug/l	1,003.50	5.8	4500	209	P	
238	**U**	3	**0.000**	ug/l	0.00	8530.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4757622	0.80	4716000	**100.9**	30	-	120	
45	Sc	1	650600	1.76	659800	**98.6**	30	-	120	
45	Sc	2	260530	0.43	256100	**101.7**	30	-	120	
74	Ge	1	492284	0.88	495700	**99.3**	30	-	120	
74	Ge	2	371645	0.33	370200	**100.4**	30	-	120	
74	Ge	3	1393520	1.21	1354000	**102.9**	30	-	120	
103	Rh	2	694594	1.05	687700	**101.0**	30	-	120	
103	Rh	3	1284125	0.88	1280000	**100.3**	30	-	120	
165	Ho	3	2605784	0.31	2556000	**101.9**	30	-	120	
175	Lu	3	2939424	1.23	2887000	**101.8**	30	-	120	
209	Bi	3	6050830	1.28	5936000	**101.9**	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\060210B.B\034SMPL.D\034SMPL.D#
Date Acquired: Jun 2 2010 02:59 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64602/24-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**97.170**	ug/l	1,943.40	4.3	450	6	P	
23	**Na**	2	**331.900**	ug/l	6,638.00	0.3	450000	45	P	
24	**Mg**	2	**2622.000**	ug/l	52,440.00	1.1	450000	45	A	
27	**Al**	2	**6357.000**	ug/l	127,140.00	1.0	450000	45	A	
31	**P**	2	**431.800**	ug/l	8,636.00	4.8	450000	45	P	
39	**K**	2	**2469.000**	ug/l	49,380.00	2.1	450000	45	A	
40	**Ca**	1	**6062.000**	ug/l	121,240.00	0.9	450000	45	A	
47	**Ti**	2	**284.600**	ug/l	5,692.00	1.2	4500	45	P	
51	**V**	2	**58.240**	ug/l	1,164.80	0.9	4500	45	P	
52	**Cr**	2	**75.060**	ug/l	1,501.20	1.6	4500	45	P	
54	**Fe**	1	**11420.000**	ug/l	228,400.00	0.6	450000	74	A	
55	**Mn**	2	**220.400**	ug/l	4,408.00	0.6	15000	45	P	
59	**Co**	2	**73.420**	ug/l	1,468.40	1.0	4500	45	P	
60	**Ni**	2	**108.700**	ug/l	2,174.00	0.6	15000	45	P	
63	**Cu**	2	**41.790**	ug/l	835.80	1.2	15000	45	P	
66	**Zn**	2	**221.200**	ug/l	4,424.00	1.4	15000	45	P	
75	**As**	2	**140.600**	ug/l	2,812.00	0.7	4500	74	P	
78	**Se**	1	**91.690**	ug/l	1,833.80	0.8	450	74	P	
88	**Sr**	3	**74.830**	ug/l	1,496.60	3.9	4500	74	P	
95	**Mo**	3	**68.830**	ug/l	1,376.60	4.6	4500	74	P	
107	**Ag**	3	**22.510**	ug/l	450.20	2.6	450	103	P	
111	**Cd**	3	**41.920**	ug/l	838.40	4.4	900	103	P	
118	**Sn**	3	**104.800**	ug/l	2,096.00	6.4	4500	103	P	
121	**Sb**	3	**88.180**	ug/l	1,763.60	5.7	4500	103	P	
135	**Ba**	3	**342.300**	ug/l	6,846.00	4.3	4500	103	P	
200	**Hg**	3	**2.528**	ug/l	50.56	4.6	45	209	P	
205	**Tl**	3	**107.100**	ug/l	2,142.00	5.0	4500	209	A	
208	**Pb**	3	**130.400**	ug/l	2,608.00	2.4	4500	209	A	
238	**U**	3	**1.047**	ug/l	20.94	4.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4894940	2.21	4716000	**103.8**	30	-	120	
45	Sc	1	669748	1.16	659800	**101.5**	30	-	120	
45	Sc	2	265054	0.78	256100	**103.5**	30	-	120	
74	Ge	1	500604	2.00	495700	**101.0**	30	-	120	
74	Ge	2	372375	1.25	370200	**100.6**	30	-	120	
74	Ge	3	1439171	1.05	1354000	**106.3**	30	-	120	
103	Rh	2	680803	1.17	687700	**99.0**	30	-	120	
103	Rh	3	1285774	1.76	1280000	**100.5**	30	-	120	
165	Ho	3	2666753	1.72	2556000	**104.3**	30	-	120	
175	Lu	3	2966779	1.01	2887000	**102.8**	30	-	120	
209	Bi	3	6084505	0.26	5936000	**102.5**	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\060210B.B\035SMPL.D\035SMPL.D#
Date Acquired: Jun 2 2010 03:06 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**49.190**	ug/l	49.19	5.6	450	6	P	
23	**Na**	2	**4980.000**	ug/l	4,980.00	0.9	450000	45	A	
24	**Mg**	2	**4987.000**	ug/l	4,987.00	1.6	450000	45	A	
27	**Al**	2	**498.800**	ug/l	498.80	0.7	450000	45	P	
31	**P**	2	**4978.000**	ug/l	4,978.00	1.1	450000	45	P	
39	**K**	2	**5029.000**	ug/l	5,029.00	0.9	450000	45	A	
40	**Ca**	1	**5127.000**	ug/l	5,127.00	0.4	450000	45	A	
47	**Ti**	2	**49.900**	ug/l	49.90	0.8	4500	45	P	
51	**V**	2	**49.310**	ug/l	49.31	2.0	4500	45	P	
52	**Cr**	2	**50.450**	ug/l	50.45	1.2	4500	45	P	
54	**Fe**	1	**5187.000**	ug/l	5,187.00	0.3	450000	74	P	
55	**Mn**	2	**50.330**	ug/l	50.33	1.8	15000	45	P	
59	**Co**	2	**50.510**	ug/l	50.51	1.8	4500	45	P	
60	**Ni**	2	**50.490**	ug/l	50.49	2.2	15000	45	P	
63	**Cu**	2	**51.030**	ug/l	51.03	1.6	15000	45	P	
66	**Zn**	2	**50.100**	ug/l	50.10	0.9	15000	45	P	
75	**As**	2	**50.250**	ug/l	50.25	1.2	4500	74	P	
78	**Se**	1	**49.350**	ug/l	49.35	2.3	450	74	P	
88	**Sr**	3	**51.330**	ug/l	51.33	3.6	4500	74	P	
95	**Mo**	3	**50.710**	ug/l	50.71	3.6	4500	74	P	
107	**Ag**	3	**51.150**	ug/l	51.15	2.3	450	103	P	
111	**Cd**	3	**50.910**	ug/l	50.91	4.5	900	103	P	
118	**Sn**	3	**50.590**	ug/l	50.59	4.6	4500	103	P	
121	**Sb**	3	**50.510**	ug/l	50.51	3.1	4500	103	P	
135	**Ba**	3	**50.530**	ug/l	50.53	3.7	4500	103	P	
200	**Hg**	3	**2.341**	ug/l	2.34	3.5	45	209	P	
205	**Tl**	3	**50.910**	ug/l	50.91	6.0	4500	209	P	
208	**Pb**	3	**50.620**	ug/l	50.62	3.4	4500	209	P	
238	**U**	3	**50.130**	ug/l	50.13	3.2	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5247473	2.07	4716000	**111.3**	30	-	120	
45	Sc	1	666487	0.36	659800	**101.0**	30	-	120	
45	Sc	2	267140	1.53	256100	**104.3**	30	-	120	
74	Ge	1	507196	0.74	495700	**102.3**	30	-	120	
74	Ge	2	383400	1.58	370200	**103.6**	30	-	120	
74	Ge	3	1461592	1.64	1354000	**107.9**	30	-	120	
103	Rh	2	694852	0.83	687700	**101.0**	30	-	120	
103	Rh	3	1296829	1.09	1280000	**101.3**	30	-	120	
165	Ho	3	2672690	1.75	2556000	**104.6**	30	-	120	
175	Lu	3	2949568	0.68	2887000	**102.2**	30	-	120	
209	Bi	3	6062680	1.22	5936000	**102.1**	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\060210B.B\036SMPL.D\036SMPL.D#
Date Acquired: Jun 2 2010 03:13 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	38.6	450	6	P	
23	**Na**	2	**-16.650**	ug/l	-16.65	6.6	450000	45	P	
24	**Mg**	2	**0.787**	ug/l	0.79	22.2	450000	45	P	
27	**Al**	2	**0.128**	ug/l	0.13	49.8	450000	45	P	
31	**P**	2	**-8.146**	ug/l	-8.15	33.8	450000	45	P	
39	**K**	2	**-11.990**	ug/l	-11.99	12.6	450000	45	P	
40	**Ca**	1	**0.557**	ug/l	0.56	41.8	450000	45	P	
47	**Ti**	2	**0.012**	ug/l	0.01	189.2	4500	45	P	
51	**V**	2	**-0.041**	ug/l	-0.04	78.3	4500	45	P	
52	**Cr**	2	**0.021**	ug/l	0.02	53.9	4500	45	P	
54	**Fe**	1	**0.962**	ug/l	0.96	36.1	450000	74	P	
55	**Mn**	2	**0.011**	ug/l	0.01	24.3	15000	45	P	
59	**Co**	2	**0.008**	ug/l	0.01	55.2	4500	45	P	
60	**Ni**	2	**0.061**	ug/l	0.06	109.5	15000	45	P	
63	**Cu**	2	**-0.016**	ug/l	-0.02	111.6	15000	45	P	
66	**Zn**	2	**0.116**	ug/l	0.12	22.5	15000	45	P	
75	**As**	2	**-0.044**	ug/l	-0.04	54.7	4500	74	P	
78	**Se**	1	**0.004**	ug/l	0.00	757.8	450	74	P	
88	**Sr**	3	**0.006**	ug/l	0.01	48.9	4500	74	P	
95	**Mo**	3	**0.014**	ug/l	0.01	18.5	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	140.9	450	103	P	
111	**Cd**	3	**0.003**	ug/l	0.00	453.9	900	103	P	
118	**Sn**	3	**0.052**	ug/l	0.05	8.0	4500	103	P	
121	**Sb**	3	**0.045**	ug/l	0.05	21.9	4500	103	P	
135	**Ba**	3	**-0.004**	ug/l	0.00	195.7	4500	103	P	
200	**Hg**	3	**-0.144**	ug/l	-0.14	22.5	45	209	P	
205	**Tl**	3	**0.362**	ug/l	0.36	7.1	4500	209	P	
208	**Pb**	3	**0.003**	ug/l	0.00	160.1	4500	209	P	
238	**U**	3	**0.006**	ug/l	0.01	54.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5087366	1.18	4716000	**107.9**	30	-	120	
45	Sc	1	674763	1.30	659800	**102.3**	30	-	120	
45	Sc	2	272760	1.19	256100	**106.5**	30	-	120	
74	Ge	1	520205	2.74	495700	**104.9**	30	-	120	
74	Ge	2	392689	0.89	370200	**106.1**	30	-	120	
74	Ge	3	1481004	2.19	1354000	**109.4**	30	-	120	
103	Rh	2	733134	1.49	687700	**106.6**	30	-	120	
103	Rh	3	1334145	1.58	1280000	**104.2**	30	-	120	
165	Ho	3	2691169	0.98	2556000	**105.3**	30	-	120	
175	Lu	3	2976666	0.71	2887000	**103.1**	30	-	120	
209	Bi	3	6288898	1.10	5936000	**105.9**	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\060210B.B\037SMPL.D\037SMPL.D#
Date Acquired: Jun 2 2010 03:20 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-17-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.155**	ug/l	1.55	8.8	450	6	P	
23	**Na**	2	**27.350**	ug/l	273.50	9.8	450000	45	P	
24	**Mg**	2	**32620.000**	ug/l	326,200.00	2.5	450000	45	A	
27	**Al**	2	**3240.000**	ug/l	32,400.00	1.7	450000	45	P	
31	**P**	2	**742.800**	ug/l	7,428.00	3.8	450000	45	P	
39	**K**	2	**515.600**	ug/l	5,156.00	1.4	450000	45	P	
40	**Ca**	1	**7972.000**	ug/l	79,720.00	0.4	450000	45	A	
47	**Ti**	2	**59.650**	ug/l	596.50	1.4	4500	45	P	
51	**V**	2	**28.990**	ug/l	289.90	0.7	4500	45	P	
52	**Cr**	2	**434.200**	ug/l	4,342.00	1.7	4500	45	A	
54	**Fe**	1	**63700.000**	ug/l	637,000.00	1.4	450000	74	A	
55	**Mn**	2	**743.900**	ug/l	7,439.00	1.7	15000	45	A	
59	**Co**	2	**118.900**	ug/l	1,189.00	1.3	4500	45	P	
60	**Ni**	2	**2074.000**	ug/l	20,740.00	2.1	15000	45	A	
63	**Cu**	2	**17.240**	ug/l	172.40	1.6	15000	45	P	
66	**Zn**	2	**106.100**	ug/l	1,061.00	0.8	15000	45	P	
75	**As**	2	**1.600**	ug/l	16.00	6.1	4500	74	P	
78	**Se**	1	**0.215**	ug/l	2.15	17.9	450	74	P	
88	**Sr**	3	**77.330**	ug/l	773.30	1.7	4500	74	P	
95	**Mo**	3	**0.598**	ug/l	5.98	4.6	4500	74	P	
107	**Ag**	3	**0.042**	ug/l	0.42	14.7	450	103	P	
111	**Cd**	3	**1.240**	ug/l	12.40	2.9	900	103	P	
118	**Sn**	3	**1.116**	ug/l	11.16	5.1	4500	103	P	
121	**Sb**	3	**0.383**	ug/l	3.83	4.5	4500	103	P	
135	**Ba**	3	**116.200**	ug/l	1,162.00	0.7	4500	103	P	
200	**Hg**	3	**48.990**	ug/l	489.90	0.8	45	209	P	Fail
205	**Tl**	3	**0.402**	ug/l	4.02	3.8	4500	209	P	
208	**Pb**	3	**29.430**	ug/l	294.30	0.5	4500	209	P	
238	**U**	3	**0.137**	ug/l	1.37	0.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4613595	1.05	4716000	**97.8**	30	-	120	
45	Sc	1	670614	1.09	659800	**101.6**	30	-	120	
45	Sc	2	259414	0.97	256100	**101.3**	30	-	120	
74	Ge	1	488629	0.86	495700	**98.6**	30	-	120	
74	Ge	2	357044	1.34	370200	**96.4**	30	-	120	
74	Ge	3	1350387	2.10	1354000	**99.7**	30	-	120	
103	Rh	2	656800	0.67	687700	**95.5**	30	-	120	
103	Rh	3	1236864	1.27	1280000	**96.6**	30	-	120	
165	Ho	3	2595511	1.38	2556000	**101.5**	30	-	120	
175	Lu	3	2893850	1.48	2887000	**100.2**	30	-	120	
209	Bi	3	5890106	0.55	5936000	**99.2**	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\060210B.B\038SMPL.D\038SMPL.D#
Date Acquired: Jun 2 2010 03:28 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-18-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**1.059**	ug/l	10.59	1.6	450	6	P	
23	**Na**	2	**73.320**	ug/l	733.20	4.7	450000	45	P	
24	**Mg**	2	**57920.000**	ug/l	579,200.00	1.8	450000	45	A	
27	**Al**	2	**44410.000**	ug/l	444,100.00	1.1	450000	45	A	
31	**P**	2	**1151.000**	ug/l	11,510.00	1.0	450000	45	P	
39	**K**	2	**2377.000**	ug/l	23,770.00	2.0	450000	45	A	
40	**Ca**	1	**9079.000**	ug/l	90,790.00	0.4	450000	45	A	
47	**Ti**	2	**1106.000**	ug/l	11,060.00	1.1	4500	45	P	
51	**V**	2	**124.100**	ug/l	1,241.00	1.5	4500	45	P	
52	**Cr**	2	**449.800**	ug/l	4,498.00	0.9	4500	45	A	
54	**Fe**	1	**103200.000**	ug/l	1,032,000.00	0.6	450000	74	A	
55	**Mn**	2	**1806.000**	ug/l	18,060.00	2.1	15000	45	A	
59	**Co**	2	**67.890**	ug/l	678.90	0.6	4500	45	P	
60	**Ni**	2	**748.100**	ug/l	7,481.00	0.9	15000	45	P	
63	**Cu**	2	**109.200**	ug/l	1,092.00	0.7	15000	45	P	
66	**Zn**	2	**169.200**	ug/l	1,692.00	0.9	15000	45	P	
75	**As**	2	**28.430**	ug/l	284.30	0.5	4500	74	P	
78	**Se**	1	**0.476**	ug/l	4.76	20.4	450	74	P	
88	**Sr**	3	**73.430**	ug/l	734.30	0.9	4500	74	P	
95	**Mo**	3	**2.876**	ug/l	28.76	4.8	4500	74	P	
107	**Ag**	3	**0.263**	ug/l	2.63	12.6	450	103	P	
111	**Cd**	3	**0.514**	ug/l	5.14	10.5	900	103	P	
118	**Sn**	3	**1.497**	ug/l	14.97	3.0	4500	103	P	
121	**Sb**	3	**2.206**	ug/l	22.06	0.2	4500	103	P	
135	**Ba**	3	**342.500**	ug/l	3,425.00	0.3	4500	103	P	
200	**Hg**	3	**44.410**	ug/l	444.10	0.5	45	209	P	
205	**Tl**	3	**0.337**	ug/l	3.37	3.6	4500	209	P	
208	**Pb**	3	**34.460**	ug/l	344.60	0.9	4500	209	P	
238	**U**	3	**1.076**	ug/l	10.76	0.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4612713	0.33	4716000	**97.8**	30	-	120	
45	Sc	1	684700	3.37	659800	**103.8**	30	-	120	
45	Sc	2	265544	1.35	256100	**103.7**	30	-	120	
74	Ge	1	470194	2.11	495700	**94.9**	30	-	120	
74	Ge	2	347242	0.99	370200	**93.8**	30	-	120	
74	Ge	3	1328694	0.46	1354000	**98.1**	30	-	120	
103	Rh	2	630925	1.08	687700	**91.7**	30	-	120	
103	Rh	3	1198694	0.43	1280000	**93.6**	30	-	120	
165	Ho	3	2550874	1.58	2556000	**99.8**	30	-	120	
175	Lu	3	2835302	1.04	2887000	**98.2**	30	-	120	
209	Bi	3	5543435	1.09	5936000	**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\060210B.B\039SMPL.D\039SMPL.D#
Date Acquired: Jun 2 2010 03:35 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-19-E 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	3.3	450	6	P	
23	**Na**	2	**12.900**	ug/l	129.00	5.3	450000	45	P	
24	**Mg**	2	**47410.000**	ug/l	474,100.00	0.9	450000	45	A	
27	**Al**	2	**5627.000**	ug/l	56,270.00	0.1	450000	45	A	
31	**P**	2	**200.000**	ug/l	2,000.00	2.8	450000	45	P	
39	**K**	2	**271.000**	ug/l	2,710.00	0.4	450000	45	P	
40	**Ca**	1	**1057.000**	ug/l	10,570.00	1.0	450000	45	A	
47	**Ti**	2	**103.500**	ug/l	1,035.00	2.1	4500	45	P	
51	**V**	2	**58.290**	ug/l	582.90	2.3	4500	45	P	
52	**Cr**	2	**1258.000**	ug/l	12,580.00	1.2	4500	45	A	
54	**Fe**	1	**136800.000**	ug/l	1,368,000.00	0.9	450000	74	A	
55	**Mn**	2	**1994.000**	ug/l	19,940.00	1.7	15000	45	A	
59	**Co**	2	**270.300**	ug/l	2,703.00	1.2	4500	45	M	
60	**Ni**	2	**4746.000**	ug/l	47,460.00	1.7	15000	45	A	
63	**Cu**	2	**24.660**	ug/l	246.60	0.8	15000	45	P	
66	**Zn**	2	**82.960**	ug/l	829.60	0.8	15000	45	P	
75	**As**	2	**2.150**	ug/l	21.50	8.3	4500	74	P	
78	**Se**	1	**0.124**	ug/l	1.24	8.2	450	74	P	
88	**Sr**	3	**7.445**	ug/l	74.45	0.9	4500	74	P	
95	**Mo**	3	**0.233**	ug/l	2.33	1.3	4500	74	P	
107	**Ag**	3	**0.045**	ug/l	0.45	17.0	450	103	P	
111	**Cd**	3	**0.423**	ug/l	4.23	21.2	900	103	P	
118	**Sn**	3	**0.818**	ug/l	8.18	9.6	4500	103	P	
121	**Sb**	3	**0.445**	ug/l	4.45	5.3	4500	103	P	
135	**Ba**	3	**172.300**	ug/l	1,723.00	0.5	4500	103	P	
200	**Hg**	3	**29.560**	ug/l	295.60	2.0	45	209	P	
205	**Tl**	3	**0.506**	ug/l	5.06	1.3	4500	209	P	
208	**Pb**	3	**53.650**	ug/l	536.50	1.1	4500	209	P	
238	**U**	3	**0.191**	ug/l	1.91	1.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4342372	1.67	4716000	**92.1**	30	-	120	
45	Sc	1	677028	2.83	659800	**102.6**	30	-	120	
45	Sc	2	270746	0.34	256100	**105.7**	30	-	120	
74	Ge	1	460160	1.14	495700	**92.8**	30	-	120	
74	Ge	2	350580	1.42	370200	**94.7**	30	-	120	
74	Ge	3	1362116	0.75	1354000	**100.6**	30	-	120	
103	Rh	2	636176	1.00	687700	**92.5**	30	-	120	
103	Rh	3	1230431	0.23	1280000	**96.1**	30	-	120	
165	Ho	3	2615760	1.58	2556000	**102.3**	30	-	120	
175	Lu	3	2914926	0.93	2887000	**101.0**	30	-	120	
209	Bi	3	5742423	0.88	5936000	**96.7**	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\060210B.B\040SMPL.D\040SMPL.D#
Date Acquired: Jun 2 2010 03:42 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-20-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.359**	ug/l	3.59	1.8	450	6	P	
23	**Na**	2	**66.310**	ug/l	663.10	1.0	450000	45	P	
24	**Mg**	2	**36800.000**	ug/l	368,000.00	0.4	450000	45	A	
27	**Al**	2	**23450.000**	ug/l	234,500.00	0.8	450000	45	A	
31	**P**	2	**793.400**	ug/l	7,934.00	3.9	450000	45	P	
39	**K**	2	**1302.000**	ug/l	13,020.00	1.0	450000	45	P	
40	**Ca**	1	**7974.000**	ug/l	79,740.00	1.6	450000	45	A	
47	**Ti**	2	**1895.000**	ug/l	18,950.00	0.5	4500	45	P	
51	**V**	2	**76.800**	ug/l	768.00	0.9	4500	45	P	
52	**Cr**	2	**402.400**	ug/l	4,024.00	0.4	4500	45	A	
54	**Fe**	1	**70780.000**	ug/l	707,800.00	1.3	450000	74	A	
55	**Mn**	2	**1493.000**	ug/l	14,930.00	1.0	15000	45	A	
59	**Co**	2	**37.740**	ug/l	377.40	1.1	4500	45	P	
60	**Ni**	2	**478.700**	ug/l	4,787.00	0.6	15000	45	P	
63	**Cu**	2	**42.430**	ug/l	424.30	2.1	15000	45	P	
66	**Zn**	2	**77.950**	ug/l	779.50	1.9	15000	45	P	
75	**As**	2	**9.507**	ug/l	95.07	1.8	4500	74	P	
78	**Se**	1	**0.203**	ug/l	2.03	30.7	450	74	P	
88	**Sr**	3	**28.930**	ug/l	289.30	0.8	4500	74	P	
95	**Mo**	3	**1.147**	ug/l	11.47	4.3	4500	74	P	
107	**Ag**	3	**0.168**	ug/l	1.68	4.0	450	103	P	
111	**Cd**	3	**0.167**	ug/l	1.67	8.2	900	103	P	
118	**Sn**	3	**0.895**	ug/l	8.95	8.0	4500	103	P	
121	**Sb**	3	**0.662**	ug/l	6.62	2.7	4500	103	P	
135	**Ba**	3	**229.800**	ug/l	2,298.00	1.3	4500	103	P	
200	**Hg**	3	**136.700**	ug/l	1,367.00	0.9	45	209	P	Fail
205	**Tl**	3	**18.100**	ug/l	181.00	1.5	4500	209	P	
208	**Pb**	3	**16.020**	ug/l	160.20	1.3	4500	209	P	
238	**U**	3	**0.300**	ug/l	3.00	3.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4703894	0.97	4716000	**99.7**	30	-	120	
45	Sc	1	651514	1.83	659800	**98.7**	30	-	120	
45	Sc	2	263928	0.64	256100	**103.1**	30	-	120	
74	Ge	1	465343	0.22	495700	**93.9**	30	-	120	
74	Ge	2	353694	1.06	370200	**95.5**	30	-	120	
74	Ge	3	1386091	0.54	1354000	**102.4**	30	-	120	
103	Rh	2	643340	0.56	687700	**93.5**	30	-	120	
103	Rh	3	1235815	1.84	1280000	**96.5**	30	-	120	
165	Ho	3	2648491	0.94	2556000	**103.6**	30	-	120	
175	Lu	3	2958893	1.82	2887000	**102.5**	30	-	120	
209	Bi	3	5724949	0.71	5936000	**96.4**	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\060210B.B\041SMPL.D\041SMPL.D#
Date Acquired: Jun 2 2010 03:49 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-21-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.737**	ug/l	7.37	2.8	450	6	P	
23	**Na**	2	**99.740**	ug/l	997.40	1.5	450000	45	P	
24	**Mg**	2	**82050.000**	ug/l	820,500.00	0.9	450000	45	A	
27	**Al**	2	**33090.000**	ug/l	330,900.00	1.3	450000	45	A	
31	**P**	2	**820.100**	ug/l	8,201.00	2.5	450000	45	P	
39	**K**	2	**1431.000**	ug/l	14,310.00	0.9	450000	45	P	
40	**Ca**	1	**9364.000**	ug/l	93,640.00	1.1	450000	45	A	
47	**Ti**	2	**2048.000**	ug/l	20,480.00	1.0	4500	45	P	
51	**V**	2	**101.400**	ug/l	1,014.00	1.0	4500	45	P	
52	**Cr**	2	**605.000**	ug/l	6,050.00	0.5	4500	45	A	
54	**Fe**	1	**93630.000**	ug/l	936,300.00	0.8	450000	74	A	
55	**Mn**	2	**1270.000**	ug/l	12,700.00	0.8	15000	45	A	
59	**Co**	2	**97.920**	ug/l	979.20	1.0	4500	45	P	
60	**Ni**	2	**1161.000**	ug/l	11,610.00	1.5	15000	45	A	
63	**Cu**	2	**52.430**	ug/l	524.30	1.5	15000	45	P	
66	**Zn**	2	**340.100**	ug/l	3,401.00	1.3	15000	45	P	
75	**As**	2	**12.120**	ug/l	121.20	1.7	4500	74	P	
78	**Se**	1	**0.240**	ug/l	2.40	29.5	450	74	P	
88	**Sr**	3	**33.770**	ug/l	337.70	1.9	4500	74	P	
95	**Mo**	3	**1.363**	ug/l	13.63	1.8	4500	74	P	
107	**Ag**	3	**0.180**	ug/l	1.80	15.7	450	103	P	
111	**Cd**	3	**0.467**	ug/l	4.67	13.2	900	103	P	
118	**Sn**	3	**2.702**	ug/l	27.02	3.2	4500	103	P	
121	**Sb**	3	**0.765**	ug/l	7.65	4.9	4500	103	P	
135	**Ba**	3	**267.300**	ug/l	2,673.00	0.9	4500	103	P	
200	**Hg**	3	**266.400**	ug/l	2,664.00	0.5	45	209	P	Fail
205	**Tl**	3	**3.129**	ug/l	31.29	1.7	4500	209	P	
208	**Pb**	3	**32.010**	ug/l	320.10	1.2	4500	209	P	
238	**U**	3	**0.491**	ug/l	4.91	3.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4587008	1.64	4716000	**97.3**	30	-	120	
45	Sc	1	657775	2.18	659800	**99.7**	30	-	120	
45	Sc	2	267194	1.18	256100	**104.3**	30	-	120	
74	Ge	1	451054	1.62	495700	**91.0**	30	-	120	
74	Ge	2	342776	0.62	370200	**92.6**	30	-	120	
74	Ge	3	1321294	0.96	1354000	**97.6**	30	-	120	
103	Rh	2	625781	0.93	687700	**91.0**	30	-	120	
103	Rh	3	1176491	0.37	1280000	**91.9**	30	-	120	
165	Ho	3	2540086	0.66	2556000	**99.4**	30	-	120	
175	Lu	3	2826124	0.47	2887000	**97.9**	30	-	120	
209	Bi	3	5468121	1.03	5936000	**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\060210B.B\042SMPL.D\042SMPL.D#
Date Acquired: Jun 2 2010 03:56 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-22-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.468**	ug/l	4.68	2.5	450	6	P	
23	**Na**	2	**114.600**	ug/l	1,146.00	1.4	450000	45	P	
24	**Mg**	2	**57720.000**	ug/l	577,200.00	0.4	450000	45	A	
27	**Al**	2	**33700.000**	ug/l	337,000.00	1.1	450000	45	A	
31	**P**	2	**754.300**	ug/l	7,543.00	2.6	450000	45	P	
39	**K**	2	**1626.000**	ug/l	16,260.00	0.3	450000	45	P	
40	**Ca**	1	**7411.000**	ug/l	74,110.00	0.6	450000	45	A	
47	**Ti**	2	**5226.000**	ug/l	52,260.00	0.4	4500	45	P	Fail
51	**V**	2	**140.000**	ug/l	1,400.00	0.8	4500	45	P	
52	**Cr**	2	**527.300**	ug/l	5,273.00	0.5	4500	45	A	
54	**Fe**	1	**129200.000**	ug/l	1,292,000.00	1.8	450000	74	A	
55	**Mn**	2	**932.900**	ug/l	9,329.00	1.6	15000	45	A	
59	**Co**	2	**34.320**	ug/l	343.20	0.9	4500	45	P	
60	**Ni**	2	**611.200**	ug/l	6,112.00	0.6	15000	45	P	
63	**Cu**	2	**68.350**	ug/l	683.50	1.0	15000	45	P	
66	**Zn**	2	**114.300**	ug/l	1,143.00	1.7	15000	45	P	
75	**As**	2	**16.100**	ug/l	161.00	1.4	4500	74	P	
78	**Se**	1	**0.419**	ug/l	4.19	14.5	450	74	P	
88	**Sr**	3	**24.720**	ug/l	247.20	5.0	4500	74	P	
95	**Mo**	3	**2.256**	ug/l	22.56	9.5	4500	74	P	
107	**Ag**	3	**0.248**	ug/l	2.48	2.3	450	103	P	
111	**Cd**	3	**0.236**	ug/l	2.36	36.6	900	103	P	
118	**Sn**	3	**1.275**	ug/l	12.75	8.0	4500	103	P	
121	**Sb**	3	**1.323**	ug/l	13.23	5.1	4500	103	P	
135	**Ba**	3	**265.500**	ug/l	2,655.00	4.3	4500	103	P	
200	**Hg**	3	**30.210**	ug/l	302.10	4.1	45	209	P	
205	**Tl**	3	**1.532**	ug/l	15.32	6.5	4500	209	P	
208	**Pb**	3	**19.390**	ug/l	193.90	4.4	4500	209	P	
238	**U**	3	**0.282**	ug/l	2.82	7.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4664618	1.26	4716000	**98.9**	30	-	120	
45	Sc	1	661702	1.24	659800	**100.3**	30	-	120	
45	Sc	2	264556	1.22	256100	**103.3**	30	-	120	
74	Ge	1	463941	1.55	495700	**93.6**	30	-	120	
74	Ge	2	352217	1.09	370200	**95.1**	30	-	120	
74	Ge	3	1396936	0.30	1354000	**103.2**	30	-	120	
103	Rh	2	640183	0.86	687700	**93.1**	30	-	120	
103	Rh	3	1255559	0.75	1280000	**98.1**	30	-	120	
165	Ho	3	2615133	0.37	2556000	**102.3**	30	-	120	
175	Lu	3	2891420	1.09	2887000	**100.2**	30	-	120	
209	Bi	3	5611618	0.89	5936000	**94.5**	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\060210B.B\043SMPL.D\043SMPL.D#
Date Acquired: Jun 2 2010 04:03 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-23-A 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.002**	ug/l	0.02	95.4	450	6	P	
23	**Na**	2	**-11.810**	ug/l	-118.10	11.2	450000	45	P	
24	**Mg**	2	**604.500**	ug/l	6,045.00	1.4	450000	45	P	
27	**Al**	2	**662.700**	ug/l	6,627.00	0.0	450000	45	P	
31	**P**	2	**15.100**	ug/l	151.00	19.3	450000	45	P	
39	**K**	2	**23.060**	ug/l	230.60	10.5	450000	45	P	
40	**Ca**	1	**59.330**	ug/l	593.30	1.9	450000	45	P	
47	**Ti**	2	**44.240**	ug/l	442.40	2.9	4500	45	P	
51	**V**	2	**6.840**	ug/l	68.40	3.3	4500	45	P	
52	**Cr**	2	**128.400**	ug/l	1,284.00	3.0	4500	45	P	
54	**Fe**	1	**5553.000**	ug/l	55,530.00	0.4	450000	74	P	
55	**Mn**	2	**8.451**	ug/l	84.51	2.7	15000	45	P	
59	**Co**	2	**0.926**	ug/l	9.26	0.4	4500	45	P	
60	**Ni**	2	**11.370**	ug/l	113.70	2.2	15000	45	P	
63	**Cu**	2	**1.777**	ug/l	17.77	3.0	15000	45	P	
66	**Zn**	2	**4.785**	ug/l	47.85	9.8	15000	45	P	
75	**As**	2	**0.256**	ug/l	2.56	16.8	4500	74	P	
78	**Se**	1	**0.045**	ug/l	0.45	36.7	450	74	P	
88	**Sr**	3	**0.442**	ug/l	4.42	22.8	4500	74	P	
95	**Mo**	3	**0.078**	ug/l	0.78	29.2	4500	74	P	
107	**Ag**	3	**0.014**	ug/l	0.14	42.0	450	103	P	
111	**Cd**	3	**-0.026**	ug/l	-0.26	90.7	900	103	P	
118	**Sn**	3	**0.161**	ug/l	1.61	11.1	4500	103	P	
121	**Sb**	3	**0.070**	ug/l	0.70	8.0	4500	103	P	
135	**Ba**	3	**5.659**	ug/l	56.59	0.4	4500	103	P	
200	**Hg**	3	**251.000**	ug/l	2,510.00	4.8	45	209	P	Fail
205	**Tl**	3	**0.614**	ug/l	6.14	9.1	4500	209	P	
208	**Pb**	3	**0.541**	ug/l	5.41	5.3	4500	209	P	
238	**U**	3	**0.005**	ug/l	0.05	15.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5037818	0.63	4716000	**106.8**	30	-	120	
45	Sc	1	638499	1.72	659800	**96.8**	30	-	120	
45	Sc	2	267154	0.60	256100	**104.3**	30	-	120	
74	Ge	1	481949	1.09	495700	**97.2**	30	-	120	
74	Ge	2	379724	1.37	370200	**102.6**	30	-	120	
74	Ge	3	1471554	0.68	1354000	**108.7**	30	-	120	
103	Rh	2	711301	0.63	687700	**103.4**	30	-	120	
103	Rh	3	1345751	1.29	1280000	**105.1**	30	-	120	
165	Ho	3	2700489	0.55	2556000	**105.7**	30	-	120	
175	Lu	3	3002527	0.70	2887000	**104.0**	30	-	120	
209	Bi	3	6231668	0.69	5936000	**105.0**	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\060210B.B\044SMPL.D\044SMPL.D#
Date Acquired: Jun 2 2010 04:10 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-24-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.013**	ug/l	0.13	28.5	450	6	P	
23	**Na**	2	**2.535**	ug/l	25.35	29.0	450000	45	P	
24	**Mg**	2	**4199.000**	ug/l	41,990.00	1.1	450000	45	A	
27	**Al**	2	**3042.000**	ug/l	30,420.00	0.9	450000	45	P	
31	**P**	2	**35.810**	ug/l	358.10	24.8	450000	45	P	
39	**K**	2	**70.180**	ug/l	701.80	3.7	450000	45	P	
40	**Ca**	1	**103.500**	ug/l	1,035.00	1.6	450000	45	P	
47	**Ti**	2	**25.330**	ug/l	253.30	9.0	4500	45	P	
51	**V**	2	**12.110**	ug/l	121.10	2.8	4500	45	P	
52	**Cr**	2	**238.800**	ug/l	2,388.00	1.2	4500	45	P	
54	**Fe**	1	**30610.000**	ug/l	306,100.00	1.3	450000	74	A	
55	**Mn**	2	**28.710**	ug/l	287.10	1.3	15000	45	P	
59	**Co**	2	**8.525**	ug/l	85.25	1.6	4500	45	P	
60	**Ni**	2	**114.100**	ug/l	1,141.00	1.8	15000	45	P	
63	**Cu**	2	**9.230**	ug/l	92.30	3.0	15000	45	P	
66	**Zn**	2	**12.830**	ug/l	128.30	2.9	15000	45	P	
75	**As**	2	**1.370**	ug/l	13.70	5.0	4500	74	P	
78	**Se**	1	**0.083**	ug/l	0.83	22.5	450	74	P	
88	**Sr**	3	**2.066**	ug/l	20.66	5.8	4500	74	P	
95	**Mo**	3	**0.277**	ug/l	2.77	21.3	4500	74	P	
107	**Ag**	3	**0.037**	ug/l	0.37	29.0	450	103	P	
111	**Cd**	3	**0.003**	ug/l	0.03	693.0	900	103	P	
118	**Sn**	3	**0.714**	ug/l	7.14	3.3	4500	103	P	
121	**Sb**	3	**0.162**	ug/l	1.62	7.1	4500	103	P	
135	**Ba**	3	**41.610**	ug/l	416.10	3.4	4500	103	P	
200	**Hg**	3	**1417.000**	ug/l	14,170.00	0.3	45	209	A	Fail
205	**Tl**	3	**1.645**	ug/l	16.45	3.8	4500	209	P	
208	**Pb**	3	**5.792**	ug/l	57.92	1.5	4500	209	P	
238	**U**	3	**0.070**	ug/l	0.70	6.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4955256	1.44	4716000	**105.1**	30	-	120	
45	Sc	1	647315	0.47	659800	**98.1**	30	-	120	
45	Sc	2	263020	0.52	256100	**102.7**	30	-	120	
74	Ge	1	484904	0.87	495700	**97.8**	30	-	120	
74	Ge	2	372224	1.46	370200	**100.5**	30	-	120	
74	Ge	3	1406632	1.10	1354000	**103.9**	30	-	120	
103	Rh	2	690668	1.72	687700	**100.4**	30	-	120	
103	Rh	3	1282559	2.02	1280000	**100.2**	30	-	120	
165	Ho	3	2628383	0.68	2556000	**102.8**	30	-	120	
175	Lu	3	2907445	0.54	2887000	**100.7**	30	-	120	
209	Bi	3	5938454	0.59	5936000	**100.0**	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\060210B.B\045SMPL.D\045SMPL.D#
Date Acquired: Jun 2 2010 04:17 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-25-B Vial Number: 2209
Misc Info: 10X

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.563**	ug/l	5.63	3.0	450	6	P	
23	**Na**	2	**20.070**	ug/l	200.70	8.3	450000	45	P	
24	**Mg**	2	**111300.000**	ug/l	1,113,000.00	1.8	450000	45	A	
27	**Al**	2	**13490.000**	ug/l	134,900.00	1.0	450000	45	A	
31	**P**	2	**740.900**	ug/l	7,409.00	5.2	450000	45	P	
39	**K**	2	**1795.000**	ug/l	17,950.00	0.7	450000	45	P	
40	**Ca**	1	**3633.000**	ug/l	36,330.00	1.1	450000	45	A	
47	**Ti**	2	**174.600**	ug/l	1,746.00	0.7	4500	45	P	
51	**V**	2	**58.840**	ug/l	588.40	0.8	4500	45	P	
52	**Cr**	2	**1015.000**	ug/l	10,150.00	1.2	4500	45	A	
54	**Fe**	1	**82210.000**	ug/l	822,100.00	1.6	450000	74	A	
55	**Mn**	2	**1363.000**	ug/l	13,630.00	1.4	15000	45	A	
59	**Co**	2	**130.400**	ug/l	1,304.00	0.8	4500	45	P	
60	**Ni**	2	**2132.000**	ug/l	21,320.00	1.1	15000	45	A	
63	**Cu**	2	**35.970**	ug/l	359.70	1.5	15000	45	P	
66	**Zn**	2	**117.400**	ug/l	1,174.00	1.1	15000	45	P	
75	**As**	2	**7.927**	ug/l	79.27	2.2	4500	74	P	
78	**Se**	1	**0.223**	ug/l	2.23	44.8	450	74	P	
88	**Sr**	3	**39.190**	ug/l	391.90	0.9	4500	74	P	
95	**Mo**	3	**0.500**	ug/l	5.00	5.4	4500	74	P	
107	**Ag**	3	**0.121**	ug/l	1.21	1.8	450	103	P	
111	**Cd**	3	**0.322**	ug/l	3.22	18.6	900	103	P	
118	**Sn**	3	**0.975**	ug/l	9.75	5.8	4500	103	P	
121	**Sb**	3	**0.460**	ug/l	4.60	11.5	4500	103	P	
135	**Ba**	3	**204.500**	ug/l	2,045.00	2.2	4500	103	P	
200	**Hg**	3	**349.800**	ug/l	3,498.00	1.7	45	209	P	Fail
205	**Tl**	3	**0.223**	ug/l	2.23	2.4	4500	209	P	
208	**Pb**	3	**26.400**	ug/l	264.00	1.4	4500	209	P	
238	**U**	3	**0.445**	ug/l	4.45	1.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4649612	0.87	4716000	**98.6**	30	-	120	
45	Sc	1	654266	1.21	659800	**99.2**	30	-	120	
45	Sc	2	265760	0.61	256100	**103.8**	30	-	120	
74	Ge	1	450531	0.69	495700	**90.9**	30	-	120	
74	Ge	2	343602	0.46	370200	**92.8**	30	-	120	
74	Ge	3	1338672	1.19	1354000	**98.9**	30	-	120	
103	Rh	2	622380	0.80	687700	**90.5**	30	-	120	
103	Rh	3	1183732	0.39	1280000	**92.5**	30	-	120	
165	Ho	3	2541951	0.77	2556000	**99.5**	30	-	120	
175	Lu	3	2812249	1.41	2887000	**97.4**	30	-	120	
209	Bi	3	5449795	1.11	5936000	**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\060210B.B\047SMPL.D\047SMPL.D#
Date Acquired: Jun 2 2010 04:32 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**48.400**	ug/l	48.40	5.9	450	6	P	
23	**Na**	2	**4930.000**	ug/l	4,930.00	1.6	450000	45	A	
24	**Mg**	2	**4937.000**	ug/l	4,937.00	1.2	450000	45	A	
27	**Al**	2	**487.100**	ug/l	487.10	1.1	450000	45	P	
31	**P**	2	**4853.000**	ug/l	4,853.00	1.2	450000	45	P	
39	**K**	2	**4921.000**	ug/l	4,921.00	1.2	450000	45	A	
40	**Ca**	1	**5143.000**	ug/l	5,143.00	0.4	450000	45	A	
47	**Ti**	2	**49.020**	ug/l	49.02	1.0	4500	45	P	
51	**V**	2	**49.500**	ug/l	49.50	1.8	4500	45	P	
52	**Cr**	2	**49.960**	ug/l	49.96	1.7	4500	45	P	
54	**Fe**	1	**5162.000**	ug/l	5,162.00	0.3	450000	74	P	
55	**Mn**	2	**49.870**	ug/l	49.87	0.9	15000	45	P	
59	**Co**	2	**50.250**	ug/l	50.25	1.3	4500	45	P	
60	**Ni**	2	**50.760**	ug/l	50.76	1.8	15000	45	P	
63	**Cu**	2	**50.320**	ug/l	50.32	2.0	15000	45	P	
66	**Zn**	2	**50.380**	ug/l	50.38	1.3	15000	45	P	
75	**As**	2	**50.010**	ug/l	50.01	1.4	4500	74	P	
78	**Se**	1	**49.250**	ug/l	49.25	2.2	450	74	P	
88	**Sr**	3	**50.470**	ug/l	50.47	3.8	4500	74	P	
95	**Mo**	3	**50.110**	ug/l	50.11	4.6	4500	74	P	
107	**Ag**	3	**50.420**	ug/l	50.42	3.0	450	103	P	
111	**Cd**	3	**50.490**	ug/l	50.49	2.7	900	103	P	
118	**Sn**	3	**50.040**	ug/l	50.04	3.9	4500	103	P	
121	**Sb**	3	**49.530**	ug/l	49.53	3.4	4500	103	P	
135	**Ba**	3	**50.030**	ug/l	50.03	4.1	4500	103	P	
200	**Hg**	3	**4.378**	ug/l	4.38	3.2	45	209	P	
205	**Tl**	3	**49.810**	ug/l	49.81	6.4	4500	209	P	
208	**Pb**	3	**49.880**	ug/l	49.88	4.2	4500	209	P	
238	**U**	3	**49.380**	ug/l	49.38	5.6	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5273182	1.71	4716000	**111.8**	30	-	120	
45	Sc	1	642473	1.12	659800	**97.4**	30	-	120	
45	Sc	2	261199	1.31	256100	**102.0**	30	-	120	
74	Ge	1	489608	0.91	495700	**98.8**	30	-	120	
74	Ge	2	372018	1.27	370200	**100.5**	30	-	120	
74	Ge	3	1443111	1.10	1354000	**106.6**	30	-	120	
103	Rh	2	683418	2.13	687700	**99.4**	30	-	120	
103	Rh	3	1295714	2.24	1280000	**101.2**	30	-	120	
165	Ho	3	2701962	2.28	2556000	**105.7**	30	-	120	
175	Lu	3	2988732	1.90	2887000	**103.5**	30	-	120	
209	Bi	3	6056379	1.04	5936000	**102.0**	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\060210B.B\048SMPL.D\048SMPL.D#
Date Acquired: Jun 2 2010 04:39 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	64.4	450	6	P	
23	**Na**	2	**-23.580**	ug/l	-23.58	1.6	450000	45	P	
24	**Mg**	2	**1.303**	ug/l	1.30	35.4	450000	45	P	
27	**Al**	2	**0.035**	ug/l	0.04	202.8	450000	45	P	
31	**P**	2	**-10.860**	ug/l	-10.86	11.3	450000	45	P	
39	**K**	2	**-16.500**	ug/l	-16.50	11.8	450000	45	P	
40	**Ca**	1	**0.375**	ug/l	0.37	95.0	450000	45	P	
47	**Ti**	2	**0.015**	ug/l	0.02	29.9	4500	45	P	
51	**V**	2	**-0.014**	ug/l	-0.01	429.6	4500	45	P	
52	**Cr**	2	**-0.027**	ug/l	-0.03	128.4	4500	45	P	
54	**Fe**	1	**1.004**	ug/l	1.00	83.4	450000	74	P	
55	**Mn**	2	**0.019**	ug/l	0.02	70.3	15000	45	P	
59	**Co**	2	**0.009**	ug/l	0.01	83.2	4500	45	P	
60	**Ni**	2	**0.021**	ug/l	0.02	155.2	15000	45	P	
63	**Cu**	2	**0.000**	ug/l	0.00	2714.3	15000	45	P	
66	**Zn**	2	**0.001**	ug/l	0.00	5919.8	15000	45	P	
75	**As**	2	**-0.037**	ug/l	-0.04	49.2	4500	74	P	
78	**Se**	1	**0.005**	ug/l	0.01	455.9	450	74	P	
88	**Sr**	3	**0.003**	ug/l	0.00	81.5	4500	74	P	
95	**Mo**	3	**0.006**	ug/l	0.01	36.0	4500	74	P	
107	**Ag**	3	**0.006**	ug/l	0.01	25.4	450	103	P	
111	**Cd**	3	**0.016**	ug/l	0.02	222.4	900	103	P	
118	**Sn**	3	**0.026**	ug/l	0.03	16.5	4500	103	P	
121	**Sb**	3	**0.012**	ug/l	0.01	24.7	4500	103	P	
135	**Ba**	3	**-0.002**	ug/l	0.00	255.7	4500	103	P	
200	**Hg**	3	**1.113**	ug/l	1.11	3.9	45	209	P	
205	**Tl**	3	**0.199**	ug/l	0.20	3.5	4500	209	P	
208	**Pb**	3	**0.005**	ug/l	0.01	72.5	4500	209	P	
238	**U**	3	**0.007**	ug/l	0.01	40.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5248765	0.48	4716000	**111.3**	30	-	120	
45	Sc	1	650541	0.59	659800	**98.6**	30	-	120	
45	Sc	2	266930	0.41	256100	**104.2**	30	-	120	
74	Ge	1	496587	0.55	495700	**100.2**	30	-	120	
74	Ge	2	393606	0.39	370200	**106.3**	30	-	120	
74	Ge	3	1494929	0.24	1354000	**110.4**	30	-	120	
103	Rh	2	733624	0.50	687700	**106.7**	30	-	120	
103	Rh	3	1362400	0.17	1280000	**106.4**	30	-	120	
165	Ho	3	2724995	1.35	2556000	**106.6**	30	-	120	
175	Lu	3	3064387	1.11	2887000	**106.1**	30	-	120	
209	Bi	3	6378970	0.60	5936000	**107.5**	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\060210B.B\049SMPL.D\049SMPL.D#
Date Acquired: Jun 2 2010 04:46 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-26-A 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	4.6	450	6	P	
23	**Na**	2	**46.590**	ug/l	465.90	13.8	450000	45	P	
24	**Mg**	2	**92260.000**	ug/l	922,600.00	0.5	450000	45	A	
27	**Al**	2	**35090.000**	ug/l	350,900.00	0.7	450000	45	A	
31	**P**	2	**868.900**	ug/l	8,689.00	4.2	450000	45	P	
39	**K**	2	**1869.000**	ug/l	18,690.00	2.2	450000	45	M	
40	**Ca**	1	**9795.000**	ug/l	97,950.00	0.3	450000	45	A	
47	**Ti**	2	**1325.000**	ug/l	13,250.00	1.0	4500	45	P	
51	**V**	2	**106.400**	ug/l	1,064.00	1.4	4500	45	P	
52	**Cr**	2	**780.200**	ug/l	7,802.00	1.5	4500	45	A	
54	**Fe**	1	**76890.000**	ug/l	768,900.00	0.3	450000	74	A	
55	**Mn**	2	**1220.000**	ug/l	12,200.00	1.2	15000	45	A	
59	**Co**	2	**74.350**	ug/l	743.50	0.9	4500	45	P	
60	**Ni**	2	**995.600**	ug/l	9,956.00	0.6	15000	45	P	
63	**Cu**	2	**67.420**	ug/l	674.20	1.8	15000	45	P	
66	**Zn**	2	**880.200**	ug/l	8,802.00	1.9	15000	45	P	
75	**As**	2	**11.720**	ug/l	117.20	1.5	4500	74	P	
78	**Se**	1	**0.279**	ug/l	2.79	13.5	450	74	P	
88	**Sr**	3	**63.180**	ug/l	631.80	1.4	4500	74	P	
95	**Mo**	3	**1.258**	ug/l	12.58	9.1	4500	74	P	
107	**Ag**	3	**0.155**	ug/l	1.55	12.4	450	103	P	
111	**Cd**	3	**1.407**	ug/l	14.07	4.4	900	103	P	
118	**Sn**	3	**13.620**	ug/l	136.20	1.6	4500	103	P	
121	**Sb**	3	**3.668**	ug/l	36.68	2.3	4500	103	P	
135	**Ba**	3	**298.500**	ug/l	2,985.00	0.9	4500	103	P	
200	**Hg**	3	**87.050**	ug/l	870.50	0.8	45	209	P	Fail
205	**Tl**	3	**0.248**	ug/l	2.48	2.0	4500	209	P	
208	**Pb**	3	**87.600**	ug/l	876.00	1.6	4500	209	P	
238	**U**	3	**0.399**	ug/l	3.99	2.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4753456	1.55	4716000	**100.8**	30	-	120	
45	Sc	1	669409	1.31	659800	**101.5**	30	-	120	
45	Sc	2	273081	1.06	256100	**106.6**	30	-	120	
74	Ge	1	464230	1.11	495700	**93.7**	30	-	120	
74	Ge	2	352984	1.47	370200	**95.3**	30	-	120	
74	Ge	3	1370936	1.02	1354000	**101.3**	30	-	120	
103	Rh	2	634108	0.88	687700	**92.2**	30	-	120	
103	Rh	3	1222585	0.59	1280000	**95.5**	30	-	120	
165	Ho	3	2587955	0.51	2556000	**101.3**	30	-	120	
175	Lu	3	2868895	0.77	2887000	**99.4**	30	-	120	
209	Bi	3	5562738	1.21	5936000	**93.7**	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\060210B.B\050SMPL.D\050SMPL.D#
Date Acquired: Jun 2 2010 04:53 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-27-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.757**	ug/l	7.57	6.8	450	6	P	
23	**Na**	2	**37.140**	ug/l	371.40	2.7	450000	45	P	
24	**Mg**	2	**187500.000**	ug/l	1,875,000.00	1.1	450000	45	A	
27	**Al**	2	**37090.000**	ug/l	370,900.00	0.7	450000	45	A	
31	**P**	2	**679.800**	ug/l	6,798.00	4.0	450000	45	P	
39	**K**	2	**1504.000**	ug/l	15,040.00	0.4	450000	45	P	
40	**Ca**	1	**25420.000**	ug/l	254,200.00	0.7	450000	45	A	
47	**Ti**	2	**1208.000**	ug/l	12,080.00	0.1	4500	45	P	
51	**V**	2	**105.900**	ug/l	1,059.00	0.9	4500	45	P	
52	**Cr**	2	**931.400**	ug/l	9,314.00	1.3	4500	45	A	
54	**Fe**	1	**86720.000**	ug/l	867,200.00	0.7	450000	74	A	
55	**Mn**	2	**1345.000**	ug/l	13,450.00	0.2	15000	45	A	
59	**Co**	2	**103.700**	ug/l	1,037.00	0.4	4500	45	P	
60	**Ni**	2	**1661.000**	ug/l	16,610.00	1.1	15000	45	A	
63	**Cu**	2	**67.180**	ug/l	671.80	0.1	15000	45	P	
66	**Zn**	2	**115.800**	ug/l	1,158.00	1.3	15000	45	P	
75	**As**	2	**10.190**	ug/l	101.90	2.7	4500	74	P	
78	**Se**	1	**0.119**	ug/l	1.19	32.2	450	74	P	
88	**Sr**	3	**47.320**	ug/l	473.20	3.9	4500	74	P	
95	**Mo**	3	**0.675**	ug/l	6.75	7.9	4500	74	P	
107	**Ag**	3	**0.136**	ug/l	1.36	14.1	450	103	P	
111	**Cd**	3	**0.258**	ug/l	2.58	18.1	900	103	P	
118	**Sn**	3	**0.825**	ug/l	8.25	7.2	4500	103	P	
121	**Sb**	3	**0.524**	ug/l	5.24	5.3	4500	103	P	
135	**Ba**	3	**211.400**	ug/l	2,114.00	3.8	4500	103	P	
200	**Hg**	3	**9.272**	ug/l	92.72	3.6	45	209	P	
205	**Tl**	3	**0.209**	ug/l	2.09	4.3	4500	209	P	
208	**Pb**	3	**14.050**	ug/l	140.50	4.1	4500	209	P	
238	**U**	3	**0.318**	ug/l	3.18	1.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4617066	0.36	4716000	**97.9**	30	-	120	
45	Sc	1	648701	1.67	659800	**98.3**	30	-	120	
45	Sc	2	261060	1.21	256100	**101.9**	30	-	120	
74	Ge	1	438647	0.51	495700	**88.5**	30	-	120	
74	Ge	2	341406	1.18	370200	**92.2**	30	-	120	
74	Ge	3	1336937	1.58	1354000	**98.7**	30	-	120	
103	Rh	2	612944	1.33	687700	**89.1**	30	-	120	
103	Rh	3	1188815	0.28	1280000	**92.9**	30	-	120	
165	Ho	3	2508951	1.28	2556000	**98.2**	30	-	120	
175	Lu	3	2762444	1.60	2887000	**95.7**	30	-	120	
209	Bi	3	5290268	1.68	5936000	**89.1**	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\060210B.B\051SMPL.D\051SMPL.D#
Date Acquired: Jun 2 2010 05:00 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-28-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**1.185**	ug/l	11.85	1.3	450	6	P	
23	**Na**	2	**49.390**	ug/l	493.90	3.3	450000	45	P	
24	**Mg**	2	**58560.000**	ug/l	585,600.00	1.3	450000	45	A	
27	**Al**	2	**43420.000**	ug/l	434,200.00	1.5	450000	45	A	
31	**P**	2	**1410.000**	ug/l	14,100.00	1.9	450000	45	P	
39	**K**	2	**2690.000**	ug/l	26,900.00	1.2	450000	45	A	
40	**Ca**	1	**9541.000**	ug/l	95,410.00	0.6	450000	45	A	
47	**Ti**	2	**1102.000**	ug/l	11,020.00	1.7	4500	45	P	
51	**V**	2	**113.600**	ug/l	1,136.00	2.4	4500	45	P	
52	**Cr**	2	**387.300**	ug/l	3,873.00	1.6	4500	45	A	
54	**Fe**	1	**80680.000**	ug/l	806,800.00	1.2	450000	74	A	
55	**Mn**	2	**1259.000**	ug/l	12,590.00	2.8	15000	45	A	
59	**Co**	2	**52.110**	ug/l	521.10	1.6	4500	45	P	
60	**Ni**	2	**515.400**	ug/l	5,154.00	2.5	15000	45	P	
63	**Cu**	2	**88.430**	ug/l	884.30	2.5	15000	45	P	
66	**Zn**	2	**166.700**	ug/l	1,667.00	1.3	15000	45	P	
75	**As**	2	**19.740**	ug/l	197.40	0.7	4500	74	P	
78	**Se**	1	**0.322**	ug/l	3.22	27.7	450	74	P	
88	**Sr**	3	**75.310**	ug/l	753.10	2.0	4500	74	P	
95	**Mo**	3	**1.938**	ug/l	19.38	4.8	4500	74	P	
107	**Ag**	3	**0.189**	ug/l	1.89	8.0	450	103	P	
111	**Cd**	3	**0.388**	ug/l	3.88	7.8	900	103	P	
118	**Sn**	3	**0.894**	ug/l	8.94	1.6	4500	103	P	
121	**Sb**	3	**1.092**	ug/l	10.92	3.5	4500	103	P	
135	**Ba**	3	**296.300**	ug/l	2,963.00	0.8	4500	103	P	
200	**Hg**	3	**1.860**	ug/l	18.60	5.0	45	209	P	
205	**Tl**	3	**0.224**	ug/l	2.24	1.1	4500	209	P	
208	**Pb**	3	**25.100**	ug/l	251.00	0.6	4500	209	P	
238	**U**	3	**0.363**	ug/l	3.63	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4760886	0.47	4716000	**101.0**	30	-	120	
45	Sc	1	639066	1.70	659800	**96.9**	30	-	120	
45	Sc	2	270501	0.77	256100	**105.6**	30	-	120	
74	Ge	1	446562	1.72	495700	**90.1**	30	-	120	
74	Ge	2	352611	1.36	370200	**95.2**	30	-	120	
74	Ge	3	1399208	0.97	1354000	**103.3**	30	-	120	
103	Rh	2	642452	0.88	687700	**93.4**	30	-	120	
103	Rh	3	1253603	2.06	1280000	**97.9**	30	-	120	
165	Ho	3	2582198	0.95	2556000	**101.0**	30	-	120	
175	Lu	3	2916189	1.31	2887000	**101.0**	30	-	120	
209	Bi	3	5632203	1.08	5936000	**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\060210B.B\052SMPL.D\052SMPL.D#
Date Acquired: Jun 2 2010 05:07 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-29-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.730**	ug/l	7.30	3.4	450	6	P	
23	**Na**	2	**40.790**	ug/l	407.90	7.1	450000	45	P	
24	**Mg**	2	**110900.000**	ug/l	1,109,000.00	1.0	450000	45	A	
27	**Al**	2	**31870.000**	ug/l	318,700.00	1.9	450000	45	A	
31	**P**	2	**1041.000**	ug/l	10,410.00	1.9	450000	45	P	
39	**K**	2	**1787.000**	ug/l	17,870.00	1.0	450000	45	P	
40	**Ca**	1	**9339.000**	ug/l	93,390.00	1.6	450000	45	A	
47	**Ti**	2	**879.400**	ug/l	8,794.00	0.8	4500	45	P	
51	**V**	2	**88.510**	ug/l	885.10	0.2	4500	45	P	
52	**Cr**	2	**606.100**	ug/l	6,061.00	2.4	4500	45	A	
54	**Fe**	1	**64540.000**	ug/l	645,400.00	1.2	450000	74	A	
55	**Mn**	2	**1157.000**	ug/l	11,570.00	0.3	15000	45	A	
59	**Co**	2	**68.010**	ug/l	680.10	0.5	4500	45	P	
60	**Ni**	2	**1005.000**	ug/l	10,050.00	0.3	15000	45	P	
63	**Cu**	2	**55.570**	ug/l	555.70	0.8	15000	45	P	
66	**Zn**	2	**106.000**	ug/l	1,060.00	0.8	15000	45	P	
75	**As**	2	**9.183**	ug/l	91.83	0.5	4500	74	P	
78	**Se**	1	**0.136**	ug/l	1.36	11.8	450	74	P	
88	**Sr**	3	**52.220**	ug/l	522.20	2.3	4500	74	P	
95	**Mo**	3	**1.034**	ug/l	10.34	9.4	4500	74	P	
107	**Ag**	3	**0.110**	ug/l	1.10	20.4	450	103	P	
111	**Cd**	3	**0.314**	ug/l	3.14	29.7	900	103	P	
118	**Sn**	3	**0.659**	ug/l	6.59	1.4	4500	103	P	
121	**Sb**	3	**0.537**	ug/l	5.37	4.0	4500	103	P	
135	**Ba**	3	**274.500**	ug/l	2,745.00	0.8	4500	103	P	
200	**Hg**	3	**7.483**	ug/l	74.83	0.7	45	209	P	
205	**Tl**	3	**0.158**	ug/l	1.58	4.3	4500	209	P	
208	**Pb**	3	**16.240**	ug/l	162.40	0.9	4500	209	P	
238	**U**	3	**0.325**	ug/l	3.25	0.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4753294	0.30	4716000	**100.8**	30	-	120	
45	Sc	1	658631	1.45	659800	**99.8**	30	-	120	
45	Sc	2	264314	1.60	256100	**103.2**	30	-	120	
74	Ge	1	458610	2.24	495700	**92.5**	30	-	120	
74	Ge	2	353508	1.40	370200	**95.5**	30	-	120	
74	Ge	3	1385903	2.29	1354000	**102.4**	30	-	120	
103	Rh	2	636333	1.23	687700	**92.5**	30	-	120	
103	Rh	3	1240559	0.45	1280000	**96.9**	30	-	120	
165	Ho	3	2588064	0.93	2556000	**101.3**	30	-	120	
175	Lu	3	2866242	0.40	2887000	**99.3**	30	-	120	
209	Bi	3	5592800	0.18	5936000	**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\060210B.B\053SMPL.D\053SMPL.D#
Date Acquired: Jun 2 2010 05:14 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-30-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**1.336**	ug/l	13.36	0.4	450	6	P	
23	**Na**	2	**53.030**	ug/l	530.30	4.3	450000	45	P	
24	**Mg**	2	**116400.000**	ug/l	1,164,000.00	0.5	450000	45	A	
27	**Al**	2	**48160.000**	ug/l	481,600.00	0.6	450000	45	A	
31	**P**	2	**894.100**	ug/l	8,941.00	2.4	450000	45	P	
39	**K**	2	**1640.000**	ug/l	16,400.00	0.8	450000	45	P	
40	**Ca**	1	**10200.000**	ug/l	102,000.00	1.5	450000	45	A	
47	**Ti**	2	**91.600**	ug/l	916.00	3.3	4500	45	P	
51	**V**	2	**115.200**	ug/l	1,152.00	0.8	4500	45	P	
52	**Cr**	2	**620.900**	ug/l	6,209.00	2.2	4500	45	A	
54	**Fe**	1	**88810.000**	ug/l	888,100.00	1.3	450000	74	A	
55	**Mn**	2	**1581.000**	ug/l	15,810.00	0.8	15000	45	A	
59	**Co**	2	**90.090**	ug/l	900.90	1.4	4500	45	P	
60	**Ni**	2	**1361.000**	ug/l	13,610.00	1.9	15000	45	A	
63	**Cu**	2	**61.710**	ug/l	617.10	1.3	15000	45	P	
66	**Zn**	2	**139.400**	ug/l	1,394.00	0.3	15000	45	P	
75	**As**	2	**13.360**	ug/l	133.60	2.1	4500	74	P	
78	**Se**	1	**0.168**	ug/l	1.68	52.7	450	74	P	
88	**Sr**	3	**62.310**	ug/l	623.10	0.4	4500	74	P	
95	**Mo**	3	**0.917**	ug/l	9.17	6.0	4500	74	P	
107	**Ag**	3	**0.117**	ug/l	1.17	21.9	450	103	P	
111	**Cd**	3	**0.382**	ug/l	3.82	8.1	900	103	P	
118	**Sn**	3	**1.249**	ug/l	12.49	5.3	4500	103	P	
121	**Sb**	3	**0.538**	ug/l	5.38	4.9	4500	103	P	
135	**Ba**	3	**240.500**	ug/l	2,405.00	0.6	4500	103	P	
200	**Hg**	3	**11.140**	ug/l	111.40	1.4	45	209	P	
205	**Tl**	3	**0.141**	ug/l	1.41	3.9	4500	209	P	
208	**Pb**	3	**21.030**	ug/l	210.30	1.2	4500	209	P	
238	**U**	3	**0.355**	ug/l	3.55	2.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4634465	1.00	4716000	**98.3**	30	-	120	
45	Sc	1	647694	1.42	659800	**98.2**	30	-	120	
45	Sc	2	271748	0.81	256100	**106.1**	30	-	120	
74	Ge	1	439519	1.47	495700	**88.7**	30	-	120	
74	Ge	2	349472	0.77	370200	**94.4**	30	-	120	
74	Ge	3	1368077	0.48	1354000	**101.0**	30	-	120	
103	Rh	2	625184	1.63	687700	**90.9**	30	-	120	
103	Rh	3	1207499	0.84	1280000	**94.3**	30	-	120	
165	Ho	3	2512896	0.10	2556000	**98.3**	30	-	120	
175	Lu	3	2806788	0.95	2887000	**97.2**	30	-	120	
209	Bi	3	5408320	0.91	5936000	**91.1**	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\060210B.B\054SMPL.D\054SMPL.D#
Date Acquired: Jun 2 2010 05:21 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-31-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.523**	ug/l	5.23	5.3	450	6	P	
23	**Na**	2	**31.790**	ug/l	317.90	9.3	450000	45	P	
24	**Mg**	2	**233300.000**	ug/l	2,333,000.00	1.0	450000	45	A	
27	**Al**	2	**15400.000**	ug/l	154,000.00	0.8	450000	45	A	
31	**P**	2	**265.900**	ug/l	2,659.00	3.0	450000	45	P	
39	**K**	2	**902.600**	ug/l	9,026.00	0.8	450000	45	P	
40	**Ca**	1	**2321.000**	ug/l	23,210.00	1.5	450000	45	A	
47	**Ti**	2	**171.000**	ug/l	1,710.00	1.3	4500	45	P	
51	**V**	2	**65.950**	ug/l	659.50	1.5	4500	45	P	
52	**Cr**	2	**1388.000**	ug/l	13,880.00	1.9	4500	45	A	
54	**Fe**	1	**146400.000**	ug/l	1,464,000.00	0.8	450000	74	A	
55	**Mn**	2	**2349.000**	ug/l	23,490.00	1.2	15000	45	A	
59	**Co**	2	**293.300**	ug/l	2,933.00	1.3	4500	45	A	
60	**Ni**	2	**4402.000**	ug/l	44,020.00	2.8	15000	45	A	
63	**Cu**	2	**39.730**	ug/l	397.30	1.5	15000	45	P	
66	**Zn**	2	**117.700**	ug/l	1,177.00	1.4	15000	45	P	
75	**As**	2	**7.130**	ug/l	71.30	3.1	4500	74	P	
78	**Se**	1	**0.290**	ug/l	2.90	2.3	450	74	P	
88	**Sr**	3	**8.838**	ug/l	88.38	2.5	4500	74	P	
95	**Mo**	3	**0.584**	ug/l	5.84	9.5	4500	74	P	
107	**Ag**	3	**0.052**	ug/l	0.52	33.7	450	103	P	
111	**Cd**	3	**0.160**	ug/l	1.60	17.8	900	103	P	
118	**Sn**	3	**0.552**	ug/l	5.52	8.6	4500	103	P	
121	**Sb**	3	**0.303**	ug/l	3.03	2.4	4500	103	P	
135	**Ba**	3	**171.200**	ug/l	1,712.00	3.9	4500	103	P	
200	**Hg**	3	**1396.000**	ug/l	13,960.00	1.3	45	209	A	Fail
205	**Tl**	3	**0.189**	ug/l	1.89	0.8	4500	209	P	
208	**Pb**	3	**9.591**	ug/l	95.91	1.1	4500	209	P	
238	**U**	3	**0.323**	ug/l	3.23	6.2	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4270430	0.82	4716000	**90.6**	30	-	120	
45	Sc	1	633208	1.46	659800	**96.0**	30	-	120	
45	Sc	2	258717	2.01	256100	**101.0**	30	-	120	
74	Ge	1	421966	1.87	495700	**85.1**	30	-	120	
74	Ge	2	331354	2.11	370200	**89.5**	30	-	120	
74	Ge	3	1283155	1.39	1354000	**94.8**	30	-	120	
103	Rh	2	600531	1.01	687700	**87.3**	30	-	120	
103	Rh	3	1176539	0.73	1280000	**91.9**	30	-	120	
165	Ho	3	2443842	1.53	2556000	**95.6**	30	-	120	
175	Lu	3	2724753	0.99	2887000	**94.4**	30	-	120	
209	Bi	3	5226484	0.26	5936000	**88.0**	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\060210B.B\055SMPL.D\055SMPL.D#
Date Acquired: Jun 2 2010 05:28 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-32-B Vial Number: 2306
Misc Info: 10X

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.494**	ug/l	4.94	10.9	450	6	P	
23	**Na**	2	**37.680**	ug/l	376.80	3.1	450000	45	P	
24	**Mg**	2	**275200.000**	ug/l	2,752,000.00	1.4	450000	45	A	
27	**Al**	2	**14260.000**	ug/l	142,600.00	0.8	450000	45	A	
31	**P**	2	**327.900**	ug/l	3,279.00	4.0	450000	45	P	
39	**K**	2	**944.100**	ug/l	9,441.00	1.4	450000	45	P	
40	**Ca**	1	**5171.000**	ug/l	51,710.00	0.4	450000	45	A	
47	**Ti**	2	**97.690**	ug/l	976.90	1.6	4500	45	P	
51	**V**	2	**67.440**	ug/l	674.40	1.0	4500	45	P	
52	**Cr**	2	**1327.000**	ug/l	13,270.00	0.6	4500	45	A	
54	**Fe**	1	**160900.000**	ug/l	1,609,000.00	0.8	450000	74	A	
55	**Mn**	2	**2170.000**	ug/l	21,700.00	0.6	15000	45	A	
59	**Co**	2	**250.000**	ug/l	2,500.00	0.9	4500	45	P	
60	**Ni**	2	**4585.000**	ug/l	45,850.00	0.2	15000	45	A	
63	**Cu**	2	**47.810**	ug/l	478.10	0.9	15000	45	P	
66	**Zn**	2	**154.600**	ug/l	1,546.00	1.6	15000	45	P	
75	**As**	2	**6.369**	ug/l	63.69	1.7	4500	74	P	
78	**Se**	1	**0.278**	ug/l	2.78	43.9	450	74	P	
88	**Sr**	3	**23.650**	ug/l	236.50	3.6	4500	74	P	
95	**Mo**	3	**0.537**	ug/l	5.37	7.3	4500	74	P	
107	**Ag**	3	**0.060**	ug/l	0.60	11.1	450	103	P	
111	**Cd**	3	**0.393**	ug/l	3.93	12.3	900	103	P	
118	**Sn**	3	**0.607**	ug/l	6.07	9.1	4500	103	P	
121	**Sb**	3	**0.425**	ug/l	4.25	12.7	4500	103	P	
135	**Ba**	3	**147.000**	ug/l	1,470.00	3.8	4500	103	P	
200	**Hg**	3	**418.900**	ug/l	4,189.00	2.2	45	209	P	Fail
205	**Tl**	3	**0.130**	ug/l	1.30	6.4	4500	209	P	
208	**Pb**	3	**8.422**	ug/l	84.22	2.7	4500	209	P	
238	**U**	3	**0.307**	ug/l	3.07	2.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4121038	0.23	4716000	**87.4**	30	-	120	
45	Sc	1	608727	1.59	659800	**92.3**	30	-	120	
45	Sc	2	253130	0.49	256100	**98.8**	30	-	120	
74	Ge	1	401430	1.80	495700	**81.0**	30	-	120	
74	Ge	2	324121	1.02	370200	**87.6**	30	-	120	
74	Ge	3	1329490	0.72	1354000	**98.2**	30	-	120	
103	Rh	2	597306	0.43	687700	**86.9**	30	-	120	
103	Rh	3	1168744	0.42	1280000	**91.3**	30	-	120	
165	Ho	3	2493331	0.50	2556000	**97.5**	30	-	120	
175	Lu	3	2805439	0.73	2887000	**97.2**	30	-	120	
209	Bi	3	5279075	0.63	5936000	**88.9**	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\060210B.B\057SMPL.D\057SMPL.D#
Date Acquired: Jun 2 2010 05:43 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**49.570**	ug/l	49.57	3.6	450	6	P	
23	**Na**	2	**4861.000**	ug/l	4,861.00	1.5	450000	45	A	
24	**Mg**	2	**4965.000**	ug/l	4,965.00	1.6	450000	45	A	
27	**Al**	2	**482.200**	ug/l	482.20	1.4	450000	45	P	
31	**P**	2	**4894.000**	ug/l	4,894.00	0.7	450000	45	P	
39	**K**	2	**5013.000**	ug/l	5,013.00	0.8	450000	45	A	
40	**Ca**	1	**4903.000**	ug/l	4,903.00	1.0	450000	45	A	
47	**Ti**	2	**48.910**	ug/l	48.91	0.8	4500	45	P	
51	**V**	2	**50.100**	ug/l	50.10	1.2	4500	45	P	
52	**Cr**	2	**51.220**	ug/l	51.22	0.6	4500	45	P	
54	**Fe**	1	**5157.000**	ug/l	5,157.00	0.4	450000	74	P	
55	**Mn**	2	**50.650**	ug/l	50.65	0.8	15000	45	P	
59	**Co**	2	**51.970**	ug/l	51.97	1.3	4500	45	P	
60	**Ni**	2	**52.280**	ug/l	52.28	1.9	15000	45	P	
63	**Cu**	2	**51.830**	ug/l	51.83	0.9	15000	45	P	
66	**Zn**	2	**51.140**	ug/l	51.14	1.8	15000	45	P	
75	**As**	2	**51.120**	ug/l	51.12	1.0	4500	74	P	
78	**Se**	1	**50.200**	ug/l	50.20	3.2	450	74	P	
88	**Sr**	3	**50.280**	ug/l	50.28	4.2	4500	74	P	
95	**Mo**	3	**50.040**	ug/l	50.04	4.6	4500	74	P	
107	**Ag**	3	**49.700**	ug/l	49.70	0.1	450	103	P	
111	**Cd**	3	**49.080**	ug/l	49.08	2.9	900	103	P	
118	**Sn**	3	**49.220**	ug/l	49.22	3.6	4500	103	P	
121	**Sb**	3	**48.760**	ug/l	48.76	2.7	4500	103	P	
135	**Ba**	3	**48.790**	ug/l	48.79	2.6	4500	103	P	
200	**Hg**	3	**3.580**	ug/l	3.58	1.5	45	209	P	
205	**Tl**	3	**50.290**	ug/l	50.29	5.1	4500	209	P	
208	**Pb**	3	**50.520**	ug/l	50.52	3.5	4500	209	P	
238	**U**	3	**49.990**	ug/l	49.99	5.2	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5172247	0.86	4716000	**109.7**	30	-	120	
45	Sc	1	597473	1.05	659800	**90.6**	30	-	120	
45	Sc	2	261361	1.40	256100	**102.1**	30	-	120	
74	Ge	1	461868	0.82	495700	**93.2**	30	-	120	
74	Ge	2	380931	1.08	370200	**102.9**	30	-	120	
74	Ge	3	1506584	1.25	1354000	**111.3**	30	-	120	
103	Rh	2	702662	0.71	687700	**102.2**	30	-	120	
103	Rh	3	1359718	1.79	1280000	**106.2**	30	-	120	
165	Ho	3	2701098	0.68	2556000	**105.7**	30	-	120	
175	Lu	3	3005896	1.60	2887000	**104.1**	30	-	120	
209	Bi	3	6068599	0.15	5936000	**102.2**	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\060210B.B\058SMPL.D\058SMPL.D#
Date Acquired: Jun 2 2010 05:50 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	7.8	450	6	P	
23	**Na**	2	**-24.430**	ug/l	-24.43	6.3	450000	45	P	
24	**Mg**	2	**2.928**	ug/l	2.93	19.7	450000	45	P	
27	**Al**	2	**0.339**	ug/l	0.34	34.8	450000	45	P	
31	**P**	2	**-12.800**	ug/l	-12.80	25.9	450000	45	P	
39	**K**	2	**-21.610**	ug/l	-21.61	9.5	450000	45	P	
40	**Ca**	1	**0.475**	ug/l	0.47	59.7	450000	45	P	
47	**Ti**	2	**0.023**	ug/l	0.02	141.8	4500	45	P	
51	**V**	2	**-0.048**	ug/l	-0.05	72.8	4500	45	P	
52	**Cr**	2	**0.004**	ug/l	0.00	1040.5	4500	45	P	
54	**Fe**	1	**1.175**	ug/l	1.18	30.0	450000	74	P	
55	**Mn**	2	**0.019**	ug/l	0.02	69.5	15000	45	P	
59	**Co**	2	**0.009**	ug/l	0.01	40.8	4500	45	P	
60	**Ni**	2	**0.062**	ug/l	0.06	57.8	15000	45	P	
63	**Cu**	2	**0.008**	ug/l	0.01	308.2	15000	45	P	
66	**Zn**	2	**0.046**	ug/l	0.05	247.4	15000	45	P	
75	**As**	2	**-0.016**	ug/l	-0.02	281.2	4500	74	P	
78	**Se**	1	**-0.005**	ug/l	0.00	652.8	450	74	P	
88	**Sr**	3	**0.003**	ug/l	0.00	173.9	4500	74	P	
95	**Mo**	3	**0.024**	ug/l	0.02	46.6	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	17.4	450	103	P	
111	**Cd**	3	**-0.005**	ug/l	0.00	211.7	900	103	P	
118	**Sn**	3	**0.033**	ug/l	0.03	40.6	4500	103	P	
121	**Sb**	3	**0.011**	ug/l	0.01	44.8	4500	103	P	
135	**Ba**	3	**0.010**	ug/l	0.01	70.5	4500	103	P	
200	**Hg**	3	**0.708**	ug/l	0.71	7.9	45	209	P	
205	**Tl**	3	**0.184**	ug/l	0.18	1.0	4500	209	P	
208	**Pb**	3	**0.007**	ug/l	0.01	46.7	4500	209	P	
238	**U**	3	**0.009**	ug/l	0.01	39.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5063868	1.14	4716000	**107.4**	30	-	120	
45	Sc	1	608282	2.31	659800	**92.2**	30	-	120	
45	Sc	2	268149	0.82	256100	**104.7**	30	-	120	
74	Ge	1	473636	1.28	495700	**95.5**	30	-	120	
74	Ge	2	394771	1.69	370200	**106.6**	30	-	120	
74	Ge	3	1523216	1.68	1354000	**112.5**	30	-	120	
103	Rh	2	747490	1.63	687700	**108.7**	30	-	120	
103	Rh	3	1398241	1.15	1280000	**109.2**	30	-	120	
165	Ho	3	2738449	1.81	2556000	**107.1**	30	-	120	
175	Lu	3	3026828	1.48	2887000	**104.8**	30	-	120	
209	Bi	3	6350395	0.95	5936000	**107.0**	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\060210B.B\059SMPL.D\059SMPL.D#
Date Acquired: Jun 2 2010 05:57 pm Acq. Method: 0NEW_ALL.M
Sample Name: MB 580-64624/21-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**-0.001**	ug/l	-0.01	287.2	450	6	P	
23	**Na**	2	**-26.810**	ug/l	-268.10	4.7	450000	45	P	
24	**Mg**	2	**1.224**	ug/l	12.24	10.6	450000	45	P	
27	**Al**	2	**0.084**	ug/l	0.84	85.5	450000	45	P	
31	**P**	2	**-15.650**	ug/l	-156.50	38.0	450000	45	P	
39	**K**	2	**-25.020**	ug/l	-250.20	5.3	450000	45	P	
40	**Ca**	1	**-0.150**	ug/l	-1.50	64.3	450000	45	P	
47	**Ti**	2	**0.012**	ug/l	0.12	109.4	4500	45	P	
51	**V**	2	**0.028**	ug/l	0.28	64.4	4500	45	P	
52	**Cr**	2	**0.000**	ug/l	0.00	6089.4	4500	45	P	
54	**Fe**	1	**0.364**	ug/l	3.64	99.1	450000	74	P	
55	**Mn**	2	**0.012**	ug/l	0.12	23.2	15000	45	P	
59	**Co**	2	**0.000**	ug/l	0.00	396.0	4500	45	P	
60	**Ni**	2	**0.000**	ug/l	0.00	9899.9	15000	45	P	
63	**Cu**	2	**0.003**	ug/l	0.03	1075.3	15000	45	P	
66	**Zn**	2	**0.034**	ug/l	0.34	90.3	15000	45	P	
75	**As**	2	**0.004**	ug/l	0.04	313.0	4500	74	P	
78	**Se**	1	**0.001**	ug/l	0.01	1184.6	450	74	P	
88	**Sr**	3	**0.003**	ug/l	0.03	80.0	4500	74	P	
95	**Mo**	3	**0.008**	ug/l	0.08	116.1	4500	74	P	
107	**Ag**	3	**0.001**	ug/l	0.01	202.2	450	103	P	
111	**Cd**	3	**-0.006**	ug/l	-0.06	143.9	900	103	P	
118	**Sn**	3	**0.012**	ug/l	0.12	136.9	4500	103	P	
121	**Sb**	3	**0.001**	ug/l	0.01	419.0	4500	103	P	
135	**Ba**	3	**-0.002**	ug/l	-0.02	359.9	4500	103	P	
200	**Hg**	3	**0.497**	ug/l	4.97	17.9	45	209	P	
205	**Tl**	3	**0.064**	ug/l	0.64	15.2	4500	209	P	
208	**Pb**	3	**0.001**	ug/l	0.01	143.6	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.01	69.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5009098	1.60	4716000	**106.2**	30	-	120	
45	Sc	1	618008	1.66	659800	**93.7**	30	-	120	
45	Sc	2	270002	1.44	256100	**105.4**	30	-	120	
74	Ge	1	478364	0.77	495700	**96.5**	30	-	120	
74	Ge	2	396583	0.84	370200	**107.1**	30	-	120	
74	Ge	3	1512752	0.93	1354000	**111.7**	30	-	120	
103	Rh	2	747216	1.85	687700	**108.7**	30	-	120	
103	Rh	3	1397186	1.10	1280000	**109.2**	30	-	120	
165	Ho	3	2684516	1.04	2556000	**105.0**	30	-	120	
175	Lu	3	3013720	1.06	2887000	**104.4**	30	-	120	
209	Bi	3	6358293	1.45	5936000	**107.1**	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\060210B.B\060SMPL.D\060SMPL.D#
Date Acquired: Jun 2 2010 06:04 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-33-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.002**	ug/l	0.08	69.8	450	6	P	
23	**Na**	2	**-32.440**	ug/l	-1,622.00	3.6	450000	45	P	
24	**Mg**	2	**87330.000**	ug/l	4,366,500.00	1.9	450000	45	A	
27	**Al**	2	**464.300**	ug/l	23,215.00	1.6	450000	45	P	
31	**P**	2	**-6.614**	ug/l	-330.70	48.4	450000	45	P	
39	**K**	2	**-17.370**	ug/l	-868.50	21.8	450000	45	P	
40	**Ca**	1	**1564.000**	ug/l	78,200.00	1.1	450000	45	A	
47	**Ti**	2	**2.667**	ug/l	133.35	4.4	4500	45	P	
51	**V**	2	**4.010**	ug/l	200.50	5.8	4500	45	P	
52	**Cr**	2	**274.400**	ug/l	13,720.00	2.1	4500	45	P	
54	**Fe**	1	**20020.000**	ug/l	1,001,000.00	1.2	450000	74	A	
55	**Mn**	2	**313.300**	ug/l	15,665.00	1.5	15000	45	P	
59	**Co**	2	**36.870**	ug/l	1,843.50	0.8	4500	45	P	
60	**Ni**	2	**797.500**	ug/l	39,875.00	2.0	15000	45	P	
63	**Cu**	2	**1.316**	ug/l	65.80	6.4	15000	45	P	
66	**Zn**	2	**7.856**	ug/l	392.80	3.2	15000	45	P	
75	**As**	2	**-0.025**	ug/l	-1.23	98.4	4500	74	P	
78	**Se**	1	**0.006**	ug/l	0.32	150.9	450	74	P	
88	**Sr**	3	**0.145**	ug/l	7.27	14.3	4500	74	P	
95	**Mo**	3	**0.015**	ug/l	0.77	30.6	4500	74	P	
107	**Ag**	3	**0.002**	ug/l	0.10	60.2	450	103	P	
111	**Cd**	3	**0.004**	ug/l	0.21	118.6	900	103	P	
118	**Sn**	3	**0.000**	ug/l	0.02	1611.2	4500	103	P	
121	**Sb**	3	**0.005**	ug/l	0.24	63.4	4500	103	P	
135	**Ba**	3	**0.654**	ug/l	32.72	16.0	4500	103	P	
200	**Hg**	3	**1.964**	ug/l	98.20	13.5	45	209	P	
205	**Tl**	3	**0.049**	ug/l	2.46	31.9	4500	209	P	
208	**Pb**	3	**0.583**	ug/l	29.14	9.7	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.08	54.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5375402	7.09	4716000	**114.0**	30	-	120	
45	Sc	1	635641	1.43	659800	**96.3**	30	-	120	
45	Sc	2	268212	1.99	256100	**104.7**	30	-	120	
74	Ge	1	478121	1.16	495700	**96.5**	30	-	120	
74	Ge	2	374656	1.95	370200	**101.2**	30	-	120	
74	Ge	3	1418752	7.96	1354000	**104.8**	30	-	120	
103	Rh	2	673096	0.94	687700	**97.9**	30	-	120	
103	Rh	3	1221791	6.46	1280000	**95.5**	30	-	120	
165	Ho	3	2443291	8.91	2556000	**95.6**	30	-	120	
175	Lu	3	2720611	8.84	2887000	**94.2**	30	-	120	
209	Bi	3	5464845	8.38	5936000	**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\060210B.B\061SMPL.D\061SMPL.D#
Date Acquired: Jun 2 2010 06:12 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-33-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	17.2	450	6	P	
23	**Na**	2	**-7.605**	ug/l	-76.05	17.8	450000	45	P	
24	**Mg**	2	**387700.000**	ug/l	3,877,000.00	0.3	450000	45	A	
27	**Al**	2	**2093.000**	ug/l	20,930.00	1.5	450000	45	P	
31	**P**	2	**9.111**	ug/l	91.11	66.3	450000	45	P	
39	**K**	2	**7.999**	ug/l	79.99	30.4	450000	45	P	
40	**Ca**	1	**6964.000**	ug/l	69,640.00	0.9	450000	45	A	
47	**Ti**	2	**11.700**	ug/l	117.00	0.3	4500	45	P	
51	**V**	2	**19.810**	ug/l	198.10	2.8	4500	45	P	
52	**Cr**	2	**1208.000**	ug/l	12,080.00	1.1	4500	45	A	
54	**Fe**	1	**95390.000**	ug/l	953,900.00	3.4	450000	74	A	
55	**Mn**	2	**1367.000**	ug/l	13,670.00	0.3	15000	45	A	
59	**Co**	2	**165.700**	ug/l	1,657.00	1.2	4500	45	P	
60	**Ni**	2	**3420.000**	ug/l	34,200.00	0.8	15000	45	A	
63	**Cu**	2	**6.205**	ug/l	62.05	4.3	15000	45	P	
66	**Zn**	2	**35.300**	ug/l	353.00	1.3	15000	45	P	
75	**As**	2	**0.432**	ug/l	4.32	12.7	4500	74	P	
78	**Se**	1	**0.050**	ug/l	0.50	49.2	450	74	P	
88	**Sr**	3	**0.690**	ug/l	6.90	2.7	4500	74	P	
95	**Mo**	3	**0.035**	ug/l	0.35	60.8	4500	74	P	
107	**Ag**	3	**0.002**	ug/l	0.02	198.2	450	103	P	
111	**Cd**	3	**0.022**	ug/l	0.22	53.5	900	103	P	
118	**Sn**	3	**0.060**	ug/l	0.60	10.5	4500	103	P	
121	**Sb**	3	**0.024**	ug/l	0.24	5.6	4500	103	P	
135	**Ba**	3	**3.204**	ug/l	32.04	5.7	4500	103	P	
200	**Hg**	3	**4.269**	ug/l	42.69	4.4	45	209	P	
205	**Tl**	3	**0.034**	ug/l	0.34	21.2	4500	209	P	
208	**Pb**	3	**2.677**	ug/l	26.77	3.1	4500	209	P	
238	**U**	3	**0.007**	ug/l	0.07	2.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4523208	1.56	4716000	**95.9**	30	-	120	
45	Sc	1	594459	0.56	659800	**90.1**	30	-	120	
45	Sc	2	248158	0.64	256100	**96.9**	30	-	120	
74	Ge	1	415700	2.51	495700	**83.9**	30	-	120	
74	Ge	2	329989	0.96	370200	**89.1**	30	-	120	
74	Ge	3	1353028	1.21	1354000	**99.9**	30	-	120	
103	Rh	2	596728	0.33	687700	**86.8**	30	-	120	
103	Rh	3	1197448	0.46	1280000	**93.6**	30	-	120	
165	Ho	3	2494680	0.33	2556000	**97.6**	30	-	120	
175	Lu	3	2751837	0.52	2887000	**95.3**	30	-	120	
209	Bi	3	5325007	0.91	5936000	**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\060210B.B\062SMPL.D\062SMPL.D#
Date Acquired: Jun 2 2010 06:19 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-33-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	32.7	450	6	P	
23	**Na**	2	**-6.157**	ug/l	-61.57	13.2	450000	45	P	
24	**Mg**	2	**380100.000**	ug/l	3,801,000.00	0.5	450000	45	A	
27	**Al**	2	**2030.000**	ug/l	20,300.00	0.9	450000	45	P	
31	**P**	2	**11.230**	ug/l	112.30	8.7	450000	45	P	
39	**K**	2	**0.286**	ug/l	2.86	763.0	450000	45	P	
40	**Ca**	1	**6671.000**	ug/l	66,710.00	1.6	450000	45	A	
47	**Ti**	2	**11.250**	ug/l	112.50	3.0	4500	45	P	
51	**V**	2	**18.920**	ug/l	189.20	1.4	4500	45	P	
52	**Cr**	2	**1178.000**	ug/l	11,780.00	0.9	4500	45	A	
54	**Fe**	1	**90350.000**	ug/l	903,500.00	0.5	450000	74	A	
55	**Mn**	2	**1359.000**	ug/l	13,590.00	0.4	15000	45	A	
59	**Co**	2	**162.500**	ug/l	1,625.00	0.1	4500	45	P	
60	**Ni**	2	**3354.000**	ug/l	33,540.00	1.5	15000	45	A	
63	**Cu**	2	**6.156**	ug/l	61.56	1.5	15000	45	P	
66	**Zn**	2	**35.490**	ug/l	354.90	1.3	15000	45	P	
75	**As**	2	**0.369**	ug/l	3.69	12.9	4500	74	P	
78	**Se**	1	**0.062**	ug/l	0.62	35.0	450	74	P	
88	**Sr**	3	**0.654**	ug/l	6.54	3.8	4500	74	P	
95	**Mo**	3	**0.048**	ug/l	0.48	42.9	4500	74	P	
107	**Ag**	3	**0.005**	ug/l	0.05	65.9	450	103	P	
111	**Cd**	3	**0.045**	ug/l	0.45	42.8	900	103	P	
118	**Sn**	3	**0.041**	ug/l	0.41	24.7	4500	103	P	
121	**Sb**	3	**0.019**	ug/l	0.19	59.1	4500	103	P	
135	**Ba**	3	**2.856**	ug/l	28.56	3.1	4500	103	P	
200	**Hg**	3	**4.138**	ug/l	41.38	2.3	45	209	P	
205	**Tl**	3	**0.030**	ug/l	0.30	30.2	4500	209	P	
208	**Pb**	3	**2.534**	ug/l	25.34	3.9	4500	209	P	
238	**U**	3	**0.007**	ug/l	0.07	7.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4387923	0.55	4716000	**93.0**	30	-	120	
45	Sc	1	585640	1.45	659800	**88.8**	30	-	120	
45	Sc	2	244976	0.25	256100	**95.7**	30	-	120	
74	Ge	1	418034	0.96	495700	**84.3**	30	-	120	
74	Ge	2	334329	1.29	370200	**90.3**	30	-	120	
74	Ge	3	1347831	0.93	1354000	**99.5**	30	-	120	
103	Rh	2	606292	0.55	687700	**88.2**	30	-	120	
103	Rh	3	1211605	0.65	1280000	**94.7**	30	-	120	
165	Ho	3	2556291	0.54	2556000	**100.0**	30	-	120	
175	Lu	3	2800989	1.94	2887000	**97.0**	30	-	120	
209	Bi	3	5385731	0.80	5936000	**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\060210B.B\063SMPL.D\063SMPL.D#
Date Acquired: Jun 2 2010 06:26 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-33-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**2.080**	ug/l	104.00	2.3	450	6	P	
23	**Na**	2	**385.700**	ug/l	19,285.00	1.7	450000	45	P	
24	**Mg**	2	**74810.000**	ug/l	3,740,500.00	0.5	450000	45	A	
27	**Al**	2	**482.700**	ug/l	24,135.00	0.6	450000	45	P	
31	**P**	2	**401.200**	ug/l	20,060.00	3.8	450000	45	P	
39	**K**	2	**399.400**	ug/l	19,970.00	1.4	450000	45	P	
40	**Ca**	1	**1700.000**	ug/l	85,000.00	0.7	450000	45	A	
47	**Ti**	2	**104.000**	ug/l	5,200.00	0.9	4500	45	P	
51	**V**	2	**24.250**	ug/l	1,212.50	1.9	4500	45	P	
52	**Cr**	2	**242.600**	ug/l	12,130.00	0.7	4500	45	P	
54	**Fe**	1	**17270.000**	ug/l	863,500.00	2.3	450000	74	A	
55	**Mn**	2	**290.100**	ug/l	14,505.00	0.6	15000	45	P	
59	**Co**	2	**52.390**	ug/l	2,619.50	0.4	4500	45	P	
60	**Ni**	2	**708.700**	ug/l	35,435.00	1.1	15000	45	P	
63	**Cu**	2	**11.710**	ug/l	585.50	1.1	15000	45	P	
66	**Zn**	2	**28.050**	ug/l	1,402.50	1.6	15000	45	P	
75	**As**	2	**81.190**	ug/l	4,059.50	0.4	4500	74	P	
78	**Se**	1	**80.210**	ug/l	4,010.50	0.8	450	74	P	
88	**Sr**	3	**0.167**	ug/l	8.33	9.0	4500	74	P	
95	**Mo**	3	**104.800**	ug/l	5,240.00	4.8	4500	74	P	
107	**Ag**	3	**12.630**	ug/l	631.50	2.8	450	103	P	
111	**Cd**	3	**2.028**	ug/l	101.40	10.9	900	103	P	
118	**Sn**	3	**109.000**	ug/l	5,450.00	4.1	4500	103	P	
121	**Sb**	3	**58.990**	ug/l	2,949.50	2.3	4500	103	P	
135	**Ba**	3	**84.880**	ug/l	4,244.00	2.8	4500	103	P	
200	**Hg**	3	**2.457**	ug/l	122.85	1.8	45	209	P	
205	**Tl**	3	**84.950**	ug/l	4,247.50	1.3	4500	209	A	
208	**Pb**	3	**21.970**	ug/l	1,098.50	2.7	4500	209	P	
238	**U**	3	**0.002**	ug/l	0.11	19.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5313356	1.74	4716000	**112.7**	30	-	120	
45	Sc	1	619727	0.27	659800	**93.9**	30	-	120	
45	Sc	2	266227	1.30	256100	**104.0**	30	-	120	
74	Ge	1	475146	1.85	495700	**95.9**	30	-	120	
74	Ge	2	381197	1.12	370200	**103.0**	30	-	120	
74	Ge	3	1541886	0.96	1354000	**113.9**	30	-	120	
103	Rh	2	687259	1.04	687700	**99.9**	30	-	120	
103	Rh	3	1324143	0.45	1280000	**103.4**	30	-	120	
165	Ho	3	2700225	1.19	2556000	**105.6**	30	-	120	
175	Lu	3	2994879	0.41	2887000	**103.7**	30	-	120	
209	Bi	3	5912670	0.69	5936000	**99.6**	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\060210B.B\064SMPL.D\064SMPL.D#
Date Acquired: Jun 2 2010 06:33 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-33-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**2.128**	ug/l	106.40	0.9	450	6	P	
23	**Na**	2	**407.100**	ug/l	20,355.00	1.9	450000	45	P	
24	**Mg**	2	**76900.000**	ug/l	3,845,000.00	2.2	450000	45	A	
27	**Al**	2	**503.900**	ug/l	25,195.00	1.7	450000	45	P	
31	**P**	2	**396.200**	ug/l	19,810.00	4.7	450000	45	P	
39	**K**	2	**413.000**	ug/l	20,650.00	1.1	450000	45	P	
40	**Ca**	1	**1813.000**	ug/l	90,650.00	1.2	450000	45	A	
47	**Ti**	2	**107.800**	ug/l	5,390.00	1.0	4500	45	P	
51	**V**	2	**25.190**	ug/l	1,259.50	1.6	4500	45	P	
52	**Cr**	2	**252.000**	ug/l	12,600.00	2.0	4500	45	P	
54	**Fe**	1	**18310.000**	ug/l	915,500.00	1.9	450000	74	A	
55	**Mn**	2	**302.900**	ug/l	15,145.00	1.6	15000	45	P	
59	**Co**	2	**54.640**	ug/l	2,732.00	1.4	4500	45	P	
60	**Ni**	2	**739.400**	ug/l	36,970.00	1.5	15000	45	P	
63	**Cu**	2	**12.080**	ug/l	604.00	2.7	15000	45	P	
66	**Zn**	2	**27.780**	ug/l	1,389.00	2.9	15000	45	P	
75	**As**	2	**83.670**	ug/l	4,183.50	0.5	4500	74	P	
78	**Se**	1	**86.460**	ug/l	4,323.00	1.2	450	74	P	
88	**Sr**	3	**0.187**	ug/l	9.34	5.8	4500	74	P	
95	**Mo**	3	**109.600**	ug/l	5,480.00	1.0	4500	74	P	
107	**Ag**	3	**12.640**	ug/l	632.00	3.0	450	103	P	
111	**Cd**	3	**2.162**	ug/l	108.10	1.9	900	103	P	
118	**Sn**	3	**111.600**	ug/l	5,580.00	3.4	4500	103	P	
121	**Sb**	3	**60.480**	ug/l	3,024.00	1.9	4500	103	P	
135	**Ba**	3	**88.270**	ug/l	4,413.50	2.9	4500	103	P	
200	**Hg**	3	**2.526**	ug/l	126.30	1.7	45	209	P	
205	**Tl**	3	**87.510**	ug/l	4,375.50	0.9	4500	209	A	
208	**Pb**	3	**22.880**	ug/l	1,144.00	0.9	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.06	13.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5300167	1.80	4716000	**112.4**	30	-	120	
45	Sc	1	622061	1.35	659800	**94.3**	30	-	120	
45	Sc	2	267640	1.56	256100	**104.5**	30	-	120	
74	Ge	1	471867	1.84	495700	**95.2**	30	-	120	
74	Ge	2	383277	0.99	370200	**103.5**	30	-	120	
74	Ge	3	1528541	0.28	1354000	**112.9**	30	-	120	
103	Rh	2	693114	1.28	687700	**100.8**	30	-	120	
103	Rh	3	1352651	3.19	1280000	**105.7**	30	-	120	
165	Ho	3	2700773	0.21	2556000	**105.7**	30	-	120	
175	Lu	3	2993568	0.72	2887000	**103.7**	30	-	120	
209	Bi	3	5931132	0.14	5936000	**99.9**	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\060210B.B\065SMPL.D\065SMPL.D#
Date Acquired: Jun 2 2010 06:40 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-33-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**2.037**	ug/l	101.85	5.7	450	6	P	
23	**Na**	2	**404.500**	ug/l	20,225.00	0.5	450000	45	P	
24	**Mg**	2	**76350.000**	ug/l	3,817,500.00	1.0	450000	45	A	
27	**Al**	2	**498.900**	ug/l	24,945.00	0.3	450000	45	P	
31	**P**	2	**397.500**	ug/l	19,875.00	1.7	450000	45	P	
39	**K**	2	**406.400**	ug/l	20,320.00	1.1	450000	45	P	
40	**Ca**	1	**1829.000**	ug/l	91,450.00	1.1	450000	45	A	
47	**Ti**	2	**108.700**	ug/l	5,435.00	1.1	4500	45	P	
51	**V**	2	**24.940**	ug/l	1,247.00	0.6	4500	45	P	
52	**Cr**	2	**251.300**	ug/l	12,565.00	0.7	4500	45	P	
54	**Fe**	1	**18450.000**	ug/l	922,500.00	1.0	450000	74	A	
55	**Mn**	2	**299.600**	ug/l	14,980.00	0.6	15000	45	P	
59	**Co**	2	**54.290**	ug/l	2,714.50	0.5	4500	45	P	
60	**Ni**	2	**725.800**	ug/l	36,290.00	0.8	15000	45	P	
63	**Cu**	2	**11.850**	ug/l	592.50	1.5	15000	45	P	
66	**Zn**	2	**28.680**	ug/l	1,434.00	4.9	15000	45	P	
75	**As**	2	**85.190**	ug/l	4,259.50	0.5	4500	74	P	
78	**Se**	1	**86.190**	ug/l	4,309.50	2.8	450	74	P	
88	**Sr**	3	**0.166**	ug/l	8.32	13.5	4500	74	P	
95	**Mo**	3	**105.300**	ug/l	5,265.00	3.8	4500	74	P	
107	**Ag**	3	**12.590**	ug/l	629.50	2.6	450	103	P	
111	**Cd**	3	**1.985**	ug/l	99.25	7.0	900	103	P	
118	**Sn**	3	**108.100**	ug/l	5,405.00	5.7	4500	103	P	
121	**Sb**	3	**60.150**	ug/l	3,007.50	3.7	4500	103	P	
135	**Ba**	3	**86.160**	ug/l	4,308.00	4.5	4500	103	P	
200	**Hg**	3	**2.432**	ug/l	121.60	3.4	45	209	P	
205	**Tl**	3	**85.790**	ug/l	4,289.50	2.5	4500	209	A	
208	**Pb**	3	**22.200**	ug/l	1,110.00	3.8	4500	209	P	
238	**U**	3	**0.001**	ug/l	0.07	57.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5287920	2.14	4716000	**112.1**	30	-	120	
45	Sc	1	624113	1.27	659800	**94.6**	30	-	120	
45	Sc	2	268031	0.45	256100	**104.7**	30	-	120	
74	Ge	1	474459	0.95	495700	**95.7**	30	-	120	
74	Ge	2	379982	0.58	370200	**102.6**	30	-	120	
74	Ge	3	1543947	0.55	1354000	**114.0**	30	-	120	
103	Rh	2	689088	0.28	687700	**100.2**	30	-	120	
103	Rh	3	1342809	0.91	1280000	**104.9**	30	-	120	
165	Ho	3	2704255	1.03	2556000	**105.8**	30	-	120	
175	Lu	3	2981627	1.29	2887000	**103.3**	30	-	120	
209	Bi	3	5956164	0.48	5936000	**100.3**	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\060210B.B\066SMPL.D\066SMPL.D#
Date Acquired: Jun 2 2010 06:47 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCS 580-64624/22-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**1.952**	ug/l	97.60	4.3	450	6	P	
23	**Na**	2	**395.300**	ug/l	19,765.00	2.0	450000	45	P	
24	**Mg**	2	**416.500**	ug/l	20,825.00	2.5	450000	45	P	
27	**Al**	2	**74.490**	ug/l	3,724.50	2.4	450000	45	P	
31	**P**	2	**358.100**	ug/l	17,905.00	5.0	450000	45	P	
39	**K**	2	**379.400**	ug/l	18,970.00	3.1	450000	45	P	
40	**Ca**	1	**411.700**	ug/l	20,585.00	1.0	450000	45	P	
47	**Ti**	2	**96.800**	ug/l	4,840.00	1.4	4500	45	P	
51	**V**	2	**19.540**	ug/l	977.00	1.2	4500	45	P	
52	**Cr**	2	**8.126**	ug/l	406.30	4.2	4500	45	P	
54	**Fe**	1	**455.400**	ug/l	22,770.00	0.7	450000	74	P	
55	**Mn**	2	**20.100**	ug/l	1,005.00	1.7	15000	45	P	
59	**Co**	2	**20.820**	ug/l	1,041.00	1.7	4500	45	P	
60	**Ni**	2	**21.110**	ug/l	1,055.50	2.7	15000	45	P	
63	**Cu**	2	**10.750**	ug/l	537.50	0.5	15000	45	P	
66	**Zn**	2	**20.890**	ug/l	1,044.50	1.8	15000	45	P	
75	**As**	2	**78.690**	ug/l	3,934.50	1.6	4500	74	P	
78	**Se**	1	**79.070**	ug/l	3,953.50	0.8	450	74	P	
88	**Sr**	3	**0.002**	ug/l	0.08	181.3	4500	74	P	
95	**Mo**	3	**98.580**	ug/l	4,929.00	6.4	4500	74	P	
107	**Ag**	3	**12.070**	ug/l	603.50	3.9	450	103	P	
111	**Cd**	3	**1.926**	ug/l	96.30	16.3	900	103	P	
118	**Sn**	3	**100.300**	ug/l	5,015.00	7.6	4500	103	P	
121	**Sb**	3	**57.160**	ug/l	2,858.00	7.2	4500	103	P	
135	**Ba**	3	**78.880**	ug/l	3,944.00	5.9	4500	103	P	
200	**Hg**	3	**1.075**	ug/l	53.75	3.9	45	209	P	
205	**Tl**	3	**76.630**	ug/l	3,831.50	3.8	4500	209	A	
208	**Pb**	3	**19.840**	ug/l	992.00	3.7	4500	209	P	
238	**U**	3	**0.000**	ug/l	-0.02	32.8	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4582940	1.70	4716000	**97.2**	30	-	120	
45	Sc	1	567482	1.01	659800	**86.0**	30	-	120	
45	Sc	2	244125	1.93	256100	**95.3**	30	-	120	
74	Ge	1	442824	1.84	495700	**89.3**	30	-	120	
74	Ge	2	365773	1.42	370200	**98.8**	30	-	120	
74	Ge	3	1428866	0.69	1354000	**105.5**	30	-	120	
103	Rh	2	698426	0.83	687700	**101.6**	30	-	120	
103	Rh	3	1292636	1.68	1280000	**101.0**	30	-	120	
165	Ho	3	2661152	0.86	2556000	**104.1**	30	-	120	
175	Lu	3	2983776	0.63	2887000	**103.4**	30	-	120	
209	Bi	3	6212590	1.60	5936000	**104.7**	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\060210B.B\067SMPL.D\067SMPL.D#
Date Acquired: Jun 2 2010 06:54 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSD 580-64624/23-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**1.961**	ug/l	98.05	8.3	450	6	P	
23	**Na**	2	**385.800**	ug/l	19,290.00	1.1	450000	45	P	
24	**Mg**	2	**399.900**	ug/l	19,995.00	1.0	450000	45	P	
27	**Al**	2	**75.530**	ug/l	3,776.50	0.5	450000	45	P	
31	**P**	2	**360.900**	ug/l	18,045.00	1.3	450000	45	P	
39	**K**	2	**372.600**	ug/l	18,630.00	1.8	450000	45	P	
40	**Ca**	1	**410.000**	ug/l	20,500.00	1.0	450000	45	P	
47	**Ti**	2	**94.870**	ug/l	4,743.50	0.8	4500	45	P	
51	**V**	2	**19.850**	ug/l	992.50	2.7	4500	45	P	
52	**Cr**	2	**8.076**	ug/l	403.80	3.6	4500	45	P	
54	**Fe**	1	**445.500**	ug/l	22,275.00	1.6	450000	74	P	
55	**Mn**	2	**20.090**	ug/l	1,004.50	0.4	15000	45	P	
59	**Co**	2	**20.680**	ug/l	1,034.00	1.1	4500	45	P	
60	**Ni**	2	**20.810**	ug/l	1,040.50	0.5	15000	45	P	
63	**Cu**	2	**10.750**	ug/l	537.50	0.0	15000	45	P	
66	**Zn**	2	**20.630**	ug/l	1,031.50	7.5	15000	45	P	
75	**As**	2	**78.640**	ug/l	3,932.00	0.5	4500	74	P	
78	**Se**	1	**78.210**	ug/l	3,910.50	0.7	450	74	P	
88	**Sr**	3	**0.004**	ug/l	0.20	74.1	4500	74	P	
95	**Mo**	3	**99.330**	ug/l	4,966.50	5.4	4500	74	P	
107	**Ag**	3	**11.780**	ug/l	589.00	2.6	450	103	P	
111	**Cd**	3	**1.875**	ug/l	93.75	7.0	900	103	P	
118	**Sn**	3	**98.430**	ug/l	4,921.50	5.3	4500	103	P	
121	**Sb**	3	**56.100**	ug/l	2,805.00	4.2	4500	103	P	
135	**Ba**	3	**77.000**	ug/l	3,850.00	4.4	4500	103	P	
200	**Hg**	3	**0.989**	ug/l	49.44	4.2	45	209	P	
205	**Tl**	3	**77.200**	ug/l	3,860.00	5.0	4500	209	A	
208	**Pb**	3	**19.740**	ug/l	987.00	4.5	4500	209	P	
238	**U**	3	**0.000**	ug/l	-0.02	80.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4573589	1.42	4716000	**97.0**	30	-	120	
45	Sc	1	569230	0.42	659800	**86.3**	30	-	120	
45	Sc	2	246234	0.36	256100	**96.1**	30	-	120	
74	Ge	1	446297	1.01	495700	**90.0**	30	-	120	
74	Ge	2	363515	0.44	370200	**98.2**	30	-	120	
74	Ge	3	1407543	0.48	1354000	**104.0**	30	-	120	
103	Rh	2	696618	1.30	687700	**101.3**	30	-	120	
103	Rh	3	1315233	1.52	1280000	**102.8**	30	-	120	
165	Ho	3	2700334	1.46	2556000	**105.6**	30	-	120	
175	Lu	3	3022049	0.95	2887000	**104.7**	30	-	120	
209	Bi	3	6254731	1.26	5936000	**105.4**	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\060210B.B\068SMPL.D\068SMPL.D#
Date Acquired: Jun 2 2010 07:02 pm Acq. Method: 0NEW_ALL.M
Sample Name: LCSSRM 580-64624/24-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**97.220**	ug/l	1,944.40	1.6	450	6	P	
23	**Na**	2	**302.000**	ug/l	6,040.00	1.2	450000	45	P	
24	**Mg**	2	**2470.000**	ug/l	49,400.00	0.7	450000	45	A	
27	**Al**	2	**5919.000**	ug/l	118,380.00	1.9	450000	45	A	
31	**P**	2	**415.600**	ug/l	8,312.00	3.1	450000	45	P	
39	**K**	2	**2329.000**	ug/l	46,580.00	1.5	450000	45	A	
40	**Ca**	1	**5577.000**	ug/l	111,540.00	0.9	450000	45	A	
47	**Ti**	2	**276.100**	ug/l	5,522.00	0.7	4500	45	P	
51	**V**	2	**58.220**	ug/l	1,164.40	1.3	4500	45	P	
52	**Cr**	2	**75.740**	ug/l	1,514.80	0.3	4500	45	P	
54	**Fe**	1	**10800.000**	ug/l	216,000.00	1.8	450000	74	A	
55	**Mn**	2	**218.000**	ug/l	4,360.00	0.7	15000	45	P	
59	**Co**	2	**73.450**	ug/l	1,469.00	1.1	4500	45	P	
60	**Ni**	2	**109.000**	ug/l	2,180.00	2.7	15000	45	P	
63	**Cu**	2	**41.920**	ug/l	838.40	2.1	15000	45	P	
66	**Zn**	2	**217.900**	ug/l	4,358.00	0.6	15000	45	P	
75	**As**	2	**136.500**	ug/l	2,730.00	1.6	4500	74	P	
78	**Se**	1	**88.950**	ug/l	1,779.00	0.3	450	74	P	
88	**Sr**	3	**74.350**	ug/l	1,487.00	1.0	4500	74	P	
95	**Mo**	3	**68.140**	ug/l	1,362.80	2.9	4500	74	P	
107	**Ag**	3	**21.570**	ug/l	431.40	0.4	450	103	P	
111	**Cd**	3	**41.030**	ug/l	820.60	2.7	900	103	P	
118	**Sn**	3	**103.600**	ug/l	2,072.00	1.8	4500	103	P	
121	**Sb**	3	**85.370**	ug/l	1,707.40	1.2	4500	103	P	
135	**Ba**	3	**335.800**	ug/l	6,716.00	1.4	4500	103	P	
200	**Hg**	3	**2.991**	ug/l	59.82	3.8	45	209	P	
205	**Tl**	3	**105.000**	ug/l	2,100.00	0.9	4500	209	A	
208	**Pb**	3	**130.300**	ug/l	2,606.00	0.6	4500	209	A	
238	**U**	3	**1.055**	ug/l	21.10	2.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5069649	1.51	4716000	**107.5**	30	-	120	
45	Sc	1	608630	1.30	659800	**92.2**	30	-	120	
45	Sc	2	264037	0.63	256100	**103.1**	30	-	120	
74	Ge	1	464763	0.97	495700	**93.8**	30	-	120	
74	Ge	2	383840	1.14	370200	**103.7**	30	-	120	
74	Ge	3	1536366	1.02	1354000	**113.5**	30	-	120	
103	Rh	2	716385	0.69	687700	**104.2**	30	-	120	
103	Rh	3	1389905	0.43	1280000	**108.6**	30	-	120	
165	Ho	3	2821276	1.44	2556000	**110.4**	30	-	120	
175	Lu	3	3113653	1.07	2887000	**107.9**	30	-	120	
209	Bi	3	6363411	0.84	5936000	**107.2**	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\060210B.B\069SMPL.D\069SMPL.D#
Date Acquired: Jun 2 2010 07:09 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**48.360**	ug/l	48.36	5.8	450	6	P	
23	**Na**	2	**4764.000**	ug/l	4,764.00	0.6	450000	45	A	
24	**Mg**	2	**4833.000**	ug/l	4,833.00	1.7	450000	45	A	
27	**Al**	2	**472.700**	ug/l	472.70	1.1	450000	45	P	
31	**P**	2	**4788.000**	ug/l	4,788.00	0.8	450000	45	P	
39	**K**	2	**4850.000**	ug/l	4,850.00	0.5	450000	45	A	
40	**Ca**	1	**4898.000**	ug/l	4,898.00	1.3	450000	45	A	
47	**Ti**	2	**49.180**	ug/l	49.18	1.9	4500	45	P	
51	**V**	2	**49.420**	ug/l	49.42	1.0	4500	45	P	
52	**Cr**	2	**50.630**	ug/l	50.63	1.2	4500	45	P	
54	**Fe**	1	**5172.000**	ug/l	5,172.00	1.3	450000	74	P	
55	**Mn**	2	**50.320**	ug/l	50.32	1.4	15000	45	P	
59	**Co**	2	**51.800**	ug/l	51.80	1.3	4500	45	P	
60	**Ni**	2	**51.590**	ug/l	51.59	1.5	15000	45	P	
63	**Cu**	2	**51.360**	ug/l	51.36	1.5	15000	45	P	
66	**Zn**	2	**50.530**	ug/l	50.53	3.0	15000	45	P	
75	**As**	2	**49.890**	ug/l	49.89	1.4	4500	74	P	
78	**Se**	1	**50.510**	ug/l	50.51	3.4	450	74	P	
88	**Sr**	3	**50.060**	ug/l	50.06	4.3	4500	74	P	
95	**Mo**	3	**50.430**	ug/l	50.43	4.7	4500	74	P	
107	**Ag**	3	**50.160**	ug/l	50.16	2.6	450	103	P	
111	**Cd**	3	**50.200**	ug/l	50.20	4.6	900	103	P	
118	**Sn**	3	**49.630**	ug/l	49.63	6.6	4500	103	P	
121	**Sb**	3	**49.160**	ug/l	49.16	4.6	4500	103	P	
135	**Ba**	3	**49.660**	ug/l	49.66	5.0	4500	103	P	
200	**Hg**	3	**2.740**	ug/l	2.74	2.7	45	209	P	
205	**Tl**	3	**50.310**	ug/l	50.31	7.1	4500	209	P	
208	**Pb**	3	**50.180**	ug/l	50.18	4.5	4500	209	P	
238	**U**	3	**49.910**	ug/l	49.91	6.7	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5202505	1.12	4716000	**110.3**	30	-	120	
45	Sc	1	593941	1.73	659800	**90.0**	30	-	120	
45	Sc	2	267485	1.55	256100	**104.4**	30	-	120	
74	Ge	1	465825	3.11	495700	**94.0**	30	-	120	
74	Ge	2	392167	0.73	370200	**105.9**	30	-	120	
74	Ge	3	1549261	2.14	1354000	**114.4**	30	-	120	
103	Rh	2	730542	1.58	687700	**106.2**	30	-	120	
103	Rh	3	1386756	0.07	1280000	**108.3**	30	-	120	
165	Ho	3	2783034	1.06	2556000	**108.9**	30	-	120	
175	Lu	3	3129506	1.27	2887000	**108.4**	30	-	120	
209	Bi	3	6329264	1.80	5936000	**106.6**	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\060210B.B\070SMPL.D\070SMPL.D#
Date Acquired: Jun 2 2010 07:16 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.010**	ug/l	0.01	55.2	450	6	P	
23	**Na**	2	**-26.570**	ug/l	-26.57	2.2	450000	45	P	
24	**Mg**	2	**2.100**	ug/l	2.10	26.7	450000	45	P	
27	**Al**	2	**0.125**	ug/l	0.13	108.0	450000	45	P	
31	**P**	2	**-15.060**	ug/l	-15.06	11.5	450000	45	P	
39	**K**	2	**-32.770**	ug/l	-32.77	6.9	450000	45	P	
40	**Ca**	1	**0.391**	ug/l	0.39	67.4	450000	45	P	
47	**Ti**	2	**0.024**	ug/l	0.02	46.8	4500	45	P	
51	**V**	2	**-0.078**	ug/l	-0.08	11.3	4500	45	P	
52	**Cr**	2	**-0.006**	ug/l	-0.01	540.0	4500	45	P	
54	**Fe**	1	**0.623**	ug/l	0.62	48.6	450000	74	P	
55	**Mn**	2	**0.010**	ug/l	0.01	80.1	15000	45	P	
59	**Co**	2	**0.010**	ug/l	0.01	58.9	4500	45	P	
60	**Ni**	2	**-0.001**	ug/l	0.00	2079.1	15000	45	P	
63	**Cu**	2	**-0.019**	ug/l	-0.02	141.9	15000	45	P	
66	**Zn**	2	**0.062**	ug/l	0.06	110.2	15000	45	P	
75	**As**	2	**-0.018**	ug/l	-0.02	128.4	4500	74	P	
78	**Se**	1	**0.012**	ug/l	0.01	5.2	450	74	P	
88	**Sr**	3	**0.006**	ug/l	0.01	15.3	4500	74	P	
95	**Mo**	3	**0.022**	ug/l	0.02	16.8	4500	74	P	
107	**Ag**	3	**0.006**	ug/l	0.01	39.7	450	103	P	
111	**Cd**	3	**0.003**	ug/l	0.00	477.2	900	103	P	
118	**Sn**	3	**0.087**	ug/l	0.09	22.5	4500	103	P	
121	**Sb**	3	**0.063**	ug/l	0.06	23.6	4500	103	P	
135	**Ba**	3	**0.008**	ug/l	0.01	247.8	4500	103	P	
200	**Hg**	3	**0.286**	ug/l	0.29	10.3	45	209	P	
205	**Tl**	3	**0.359**	ug/l	0.36	5.1	4500	209	P	
208	**Pb**	3	**0.007**	ug/l	0.01	21.3	4500	209	P	
238	**U**	3	**0.008**	ug/l	0.01	25.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5188392	2.46	4716000	**110.0**	30	-	120	
45	Sc	1	611755	1.52	659800	**92.7**	30	-	120	
45	Sc	2	276736	0.80	256100	**108.1**	30	-	120	
74	Ge	1	483845	1.79	495700	**97.6**	30	-	120	
74	Ge	2	406531	1.06	370200	**109.8**	30	-	120	
74	Ge	3	1598836	0.81	1354000	**118.1**	30	-	120	
103	Rh	2	775726	1.92	687700	**112.8**	30	-	120	
103	Rh	3	1448583	0.78	1280000	**113.2**	30	-	120	
165	Ho	3	2842870	1.38	2556000	**111.2**	30	-	120	
175	Lu	3	3122149	0.85	2887000	**108.1**	30	-	120	
209	Bi	3	6571154	0.48	5936000	**110.7**	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\060210B.B\071SMPL.D\071SMPL.D#
Date Acquired: Jun 2 2010 07:23 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-34-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.023**	ug/l	0.23	15.8	450	6	P	
23	**Na**	2	**1.290**	ug/l	12.90	150.8	450000	45	P	
24	**Mg**	2	**376100.000**	ug/l	3,761,000.00	0.9	450000	45	A	
27	**Al**	2	**2978.000**	ug/l	29,780.00	1.3	450000	45	P	
31	**P**	2	**56.160**	ug/l	561.60	6.8	450000	45	P	
39	**K**	2	**29.310**	ug/l	293.10	12.4	450000	45	P	
40	**Ca**	1	**1817.000**	ug/l	18,170.00	1.1	450000	45	A	
47	**Ti**	2	**21.440**	ug/l	214.40	1.4	4500	45	P	
51	**V**	2	**35.500**	ug/l	355.00	0.7	4500	45	P	
52	**Cr**	2	**1608.000**	ug/l	16,080.00	0.9	4500	45	A	
54	**Fe**	1	**110900.000**	ug/l	1,109,000.00	0.3	450000	74	A	
55	**Mn**	2	**1818.000**	ug/l	18,180.00	3.1	15000	45	A	
59	**Co**	2	**208.400**	ug/l	2,084.00	0.6	4500	45	P	
60	**Ni**	2	**3953.000**	ug/l	39,530.00	0.9	15000	45	A	
63	**Cu**	2	**15.940**	ug/l	159.40	1.2	15000	45	P	
66	**Zn**	2	**54.650**	ug/l	546.50	3.6	15000	45	P	
75	**As**	2	**1.161**	ug/l	11.61	6.8	4500	74	P	
78	**Se**	1	**0.160**	ug/l	1.60	24.4	450	74	P	
88	**Sr**	3	**1.358**	ug/l	13.58	3.7	4500	74	P	
95	**Mo**	3	**0.149**	ug/l	1.49	23.2	4500	74	P	
107	**Ag**	3	**0.014**	ug/l	0.14	40.0	450	103	P	
111	**Cd**	3	**0.059**	ug/l	0.59	72.7	900	103	P	
118	**Sn**	3	**0.341**	ug/l	3.41	3.9	4500	103	P	
121	**Sb**	3	**0.138**	ug/l	1.38	2.9	4500	103	P	
135	**Ba**	3	**10.740**	ug/l	107.40	4.1	4500	103	P	
200	**Hg**	3	**5.766**	ug/l	57.66	3.2	45	209	P	
205	**Tl**	3	**0.199**	ug/l	1.99	2.7	4500	209	P	
208	**Pb**	3	**15.250**	ug/l	152.50	4.2	4500	209	P	
238	**U**	3	**0.023**	ug/l	0.23	4.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4389515	1.55	4716000	**93.1**	30	-	120	
45	Sc	1	625631	1.56	659800	**94.8**	30	-	120	
45	Sc	2	257912	1.95	256100	**100.7**	30	-	120	
74	Ge	1	429316	1.01	495700	**86.6**	30	-	120	
74	Ge	2	336275	1.85	370200	**90.8**	30	-	120	
74	Ge	3	1353357	2.29	1354000	**100.0**	30	-	120	
103	Rh	2	609972	0.64	687700	**88.7**	30	-	120	
103	Rh	3	1199681	1.25	1280000	**93.7**	30	-	120	
165	Ho	3	2485799	1.77	2556000	**97.3**	30	-	120	
175	Lu	3	2804858	0.73	2887000	**97.2**	30	-	120	
209	Bi	3	5326508	1.20	5936000	**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\060210B.B\072SMPL.D\072SMPL.D#
Date Acquired: Jun 2 2010 07:30 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-35-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	34.1	450	6	P	
23	**Na**	2	**16.660**	ug/l	166.60	14.5	450000	45	P	
24	**Mg**	2	**364800.000**	ug/l	3,648,000.00	0.8	450000	45	A	
27	**Al**	2	**3198.000**	ug/l	31,980.00	1.2	450000	45	P	
31	**P**	2	**45.790**	ug/l	457.90	16.3	450000	45	P	
39	**K**	2	**-3.180**	ug/l	-31.80	70.3	450000	45	P	
40	**Ca**	1	**5977.000**	ug/l	59,770.00	0.5	450000	45	A	
47	**Ti**	2	**13.590**	ug/l	135.90	1.2	4500	45	P	
51	**V**	2	**38.070**	ug/l	380.70	1.0	4500	45	P	
52	**Cr**	2	**1739.000**	ug/l	17,390.00	2.0	4500	45	A	
54	**Fe**	1	**102900.000**	ug/l	1,029,000.00	0.5	450000	74	A	
55	**Mn**	2	**1541.000**	ug/l	15,410.00	1.4	15000	45	A	
59	**Co**	2	**183.000**	ug/l	1,830.00	0.9	4500	45	P	
60	**Ni**	2	**3711.000**	ug/l	37,110.00	2.0	15000	45	A	
63	**Cu**	2	**16.110**	ug/l	161.10	1.3	15000	45	P	
66	**Zn**	2	**71.680**	ug/l	716.80	2.5	15000	45	P	
75	**As**	2	**0.470**	ug/l	4.70	17.6	4500	74	P	
78	**Se**	1	**0.065**	ug/l	0.65	17.2	450	74	P	
88	**Sr**	3	**1.108**	ug/l	11.08	4.2	4500	74	P	
95	**Mo**	3	**0.051**	ug/l	0.51	42.8	4500	74	P	
107	**Ag**	3	**0.013**	ug/l	0.13	27.4	450	103	P	
111	**Cd**	3	**0.103**	ug/l	1.03	16.4	900	103	P	
118	**Sn**	3	**0.308**	ug/l	3.08	1.4	4500	103	P	
121	**Sb**	3	**0.101**	ug/l	1.01	17.1	4500	103	P	
135	**Ba**	3	**7.039**	ug/l	70.39	2.7	4500	103	P	
200	**Hg**	3	**25.060**	ug/l	250.60	2.8	45	209	P	
205	**Tl**	3	**0.152**	ug/l	1.52	11.1	4500	209	P	
208	**Pb**	3	**19.670**	ug/l	196.70	3.2	4500	209	P	
238	**U**	3	**0.012**	ug/l	0.12	15.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3990275	0.78	4716000	**84.6**	30	-	120	
45	Sc	1	575216	2.25	659800	**87.2**	30	-	120	
45	Sc	2	246015	1.53	256100	**96.1**	30	-	120	
74	Ge	1	401938	1.31	495700	**81.1**	30	-	120	
74	Ge	2	331402	1.28	370200	**89.5**	30	-	120	
74	Ge	3	1352781	0.57	1354000	**99.9**	30	-	120	
103	Rh	2	607423	0.67	687700	**88.3**	30	-	120	
103	Rh	3	1206342	0.51	1280000	**94.2**	30	-	120	
165	Ho	3	2601834	0.72	2556000	**101.8**	30	-	120	
175	Lu	3	2907178	2.15	2887000	**100.7**	30	-	120	
209	Bi	3	5441021	0.48	5936000	**91.7**	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\060210B.B\073SMPL.D\073SMPL.D#
Date Acquired: Jun 2 2010 07:37 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19401-A-36-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.258**	ug/l	2.58	9.7	450	6	P	
23	**Na**	2	**24.740**	ug/l	247.40	10.8	450000	45	P	
24	**Mg**	2	**379500.000**	ug/l	3,795,000.00	1.0	450000	45	A	
27	**Al**	2	**8027.000**	ug/l	80,270.00	1.4	450000	45	A	
31	**P**	2	**105.200**	ug/l	1,052.00	13.3	450000	45	P	
39	**K**	2	**241.800**	ug/l	2,418.00	1.5	450000	45	P	
40	**Ca**	1	**4441.000**	ug/l	44,410.00	0.2	450000	45	A	
47	**Ti**	2	**28.050**	ug/l	280.50	3.0	4500	45	P	
51	**V**	2	**51.490**	ug/l	514.90	1.3	4500	45	P	
52	**Cr**	2	**1258.000**	ug/l	12,580.00	1.8	4500	45	A	
54	**Fe**	1	**116200.000**	ug/l	1,162,000.00	1.0	450000	74	A	
55	**Mn**	2	**1810.000**	ug/l	18,100.00	1.1	15000	45	A	
59	**Co**	2	**220.700**	ug/l	2,207.00	0.6	4500	45	P	
60	**Ni**	2	**4301.000**	ug/l	43,010.00	0.8	15000	45	A	
63	**Cu**	2	**27.340**	ug/l	273.40	0.3	15000	45	P	
66	**Zn**	2	**87.250**	ug/l	872.50	2.5	15000	45	P	
75	**As**	2	**2.446**	ug/l	24.46	4.8	4500	74	P	
78	**Se**	1	**0.076**	ug/l	0.76	42.2	450	74	P	
88	**Sr**	3	**13.190**	ug/l	131.90	4.5	4500	74	P	
95	**Mo**	3	**0.208**	ug/l	2.08	24.9	4500	74	P	
107	**Ag**	3	**0.033**	ug/l	0.33	11.0	450	103	P	
111	**Cd**	3	**0.167**	ug/l	1.67	29.8	900	103	P	
118	**Sn**	3	**0.596**	ug/l	5.96	13.3	4500	103	P	
121	**Sb**	3	**0.232**	ug/l	2.32	8.5	4500	103	P	
135	**Ba**	3	**65.410**	ug/l	654.10	3.3	4500	103	P	
200	**Hg**	3	**604.800**	ug/l	6,048.00	2.1	45	209	P	Fail
205	**Tl**	3	**0.194**	ug/l	1.94	9.3	4500	209	P	
208	**Pb**	3	**7.171**	ug/l	71.71	2.8	4500	209	P	
238	**U**	3	**0.169**	ug/l	1.69	6.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3821798	0.40	4716000	**81.0**	30	-	120	
45	Sc	1	564102	2.74	659800	**85.5**	30	-	120	
45	Sc	2	244034	0.96	256100	**95.3**	30	-	120	
74	Ge	1	385550	1.34	495700	**77.8**	30	-	120	
74	Ge	2	323706	0.10	370200	**87.4**	30	-	120	
74	Ge	3	1306710	1.10	1354000	**96.5**	30	-	120	
103	Rh	2	601730	1.13	687700	**87.5**	30	-	120	
103	Rh	3	1178790	0.95	1280000	**92.1**	30	-	120	
165	Ho	3	2566843	1.03	2556000	**100.4**	30	-	120	
175	Lu	3	2889738	0.53	2887000	**100.1**	30	-	120	
209	Bi	3	5442393	0.89	5936000	**91.7**	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\060210B.B\074SMPL.D\074SMPL.D#
Date Acquired: Jun 2 2010 07:44 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-C-5-A 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.123**	ug/l	1.23	3.5	450	6	P	
23	**Na**	2	**23.170**	ug/l	231.70	16.5	450000	45	P	
24	**Mg**	2	**19260.000**	ug/l	192,600.00	1.8	450000	45	A	
27	**Al**	2	**844.200**	ug/l	8,442.00	0.7	450000	45	P	
31	**P**	2	**29.200**	ug/l	292.00	15.1	450000	45	P	
39	**K**	2	**78.700**	ug/l	787.00	3.1	450000	45	P	
40	**Ca**	1	**6195.000**	ug/l	61,950.00	1.7	450000	45	A	
47	**Ti**	2	**15.770**	ug/l	157.70	2.5	4500	45	P	
51	**V**	2	**3.271**	ug/l	32.71	1.9	4500	45	P	
52	**Cr**	2	**146.300**	ug/l	1,463.00	1.4	4500	45	P	
54	**Fe**	1	**389800.000**	ug/l	3,898,000.00	0.4	450000	74	A	
55	**Mn**	2	**14860.000**	ug/l	148,600.00	1.5	15000	45	A	
59	**Co**	2	**1133.000**	ug/l	11,330.00	1.4	4500	45	A	
60	**Ni**	2	**9634.000**	ug/l	96,340.00	1.2	15000	45	A	
63	**Cu**	2	**2.489**	ug/l	24.89	0.9	15000	45	P	
66	**Zn**	2	**281.700**	ug/l	2,817.00	1.8	15000	45	P	
75	**As**	2	**1.812**	ug/l	18.12	1.0	4500	74	P	
78	**Se**	1	**0.053**	ug/l	0.53	136.1	450	74	P	
88	**Sr**	3	**153.300**	ug/l	1,533.00	2.8	4500	74	A	
95	**Mo**	3	**0.131**	ug/l	1.31	32.1	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.03	62.2	450	103	P	
111	**Cd**	3	**0.128**	ug/l	1.28	41.5	900	103	P	
118	**Sn**	3	**0.088**	ug/l	0.88	20.6	4500	103	P	
121	**Sb**	3	**0.049**	ug/l	0.49	17.3	4500	103	P	
135	**Ba**	3	**185.500**	ug/l	1,855.00	4.1	4500	103	P	
200	**Hg**	3	**4.824**	ug/l	48.24	3.7	45	209	P	
205	**Tl**	3	**0.109**	ug/l	1.09	12.1	4500	209	P	
208	**Pb**	3	**0.362**	ug/l	3.62	5.7	4500	209	P	
238	**U**	3	**0.017**	ug/l	0.17	17.7	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	3547694	0.40	4716000	**75.2**	30	-	120	
45	Sc	1	483939	1.22	659800	**73.3**	30	-	120	
45	Sc	2	202506	1.20	256100	**79.1**	30	-	120	
74	Ge	1	360814	0.10	495700	**72.8**	30	-	120	
74	Ge	2	300413	0.75	370200	**81.1**	30	-	120	
74	Ge	3	1211891	1.47	1354000	**89.5**	30	-	120	
103	Rh	2	576694	0.98	687700	**83.9**	30	-	120	
103	Rh	3	1126776	0.88	1280000	**88.0**	30	-	120	
165	Ho	3	2443342	0.49	2556000	**95.6**	30	-	120	
175	Lu	3	2780647	0.36	2887000	**96.3**	30	-	120	
209	Bi	3	5468423	0.40	5936000	**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\060210B.B\075SMPL.D\075SMPL.D#
Date Acquired: Jun 2 2010 07:52 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-C-6-A 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.650**	ug/l	6.50	1.5	450	6	P	
23	**Na**	2	**61.340**	ug/l	613.40	2.6	450000	45	P	
24	**Mg**	2	**79240.000**	ug/l	792,400.00	1.2	450000	45	A	
27	**Al**	2	**25620.000**	ug/l	256,200.00	2.2	450000	45	A	
31	**P**	2	**919.200**	ug/l	9,192.00	0.9	450000	45	P	
39	**K**	2	**949.500**	ug/l	9,495.00	0.9	450000	45	P	
40	**Ca**	1	**9996.000**	ug/l	99,960.00	0.5	450000	45	A	
47	**Ti**	2	**749.800**	ug/l	7,498.00	1.6	4500	45	P	
51	**V**	2	**92.090**	ug/l	920.90	1.5	4500	45	P	
52	**Cr**	2	**296.100**	ug/l	2,961.00	0.8	4500	45	P	
54	**Fe**	1	**76160.000**	ug/l	761,600.00	1.1	450000	74	A	
55	**Mn**	2	**1299.000**	ug/l	12,990.00	1.2	15000	45	A	
59	**Co**	2	**64.890**	ug/l	648.90	1.4	4500	45	P	
60	**Ni**	2	**953.700**	ug/l	9,537.00	1.2	15000	45	P	
63	**Cu**	2	**49.270**	ug/l	492.70	0.7	15000	45	P	
66	**Zn**	2	**120.600**	ug/l	1,206.00	2.2	15000	45	P	
75	**As**	2	**10.830**	ug/l	108.30	3.3	4500	74	P	
78	**Se**	1	**0.109**	ug/l	1.09	86.1	450	74	P	
88	**Sr**	3	**53.020**	ug/l	530.20	3.5	4500	74	P	
95	**Mo**	3	**0.624**	ug/l	6.24	7.1	4500	74	P	
107	**Ag**	3	**0.092**	ug/l	0.92	9.1	450	103	P	
111	**Cd**	3	**0.307**	ug/l	3.07	11.1	900	103	P	
118	**Sn**	3	**0.596**	ug/l	5.96	3.2	4500	103	P	
121	**Sb**	3	**0.448**	ug/l	4.48	3.4	4500	103	P	
135	**Ba**	3	**217.500**	ug/l	2,175.00	2.0	4500	103	P	
200	**Hg**	3	**30.390**	ug/l	303.90	2.4	45	209	P	
205	**Tl**	3	**0.136**	ug/l	1.36	6.4	4500	209	P	
208	**Pb**	3	**12.970**	ug/l	129.70	4.0	4500	209	P	
238	**U**	3	**0.468**	ug/l	4.68	3.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4423894	1.52	4716000	**93.8**	30	-	120	
45	Sc	1	574120	1.05	659800	**87.0**	30	-	120	
45	Sc	2	250100	1.48	256100	**97.7**	30	-	120	
74	Ge	1	410996	1.99	495700	**82.9**	30	-	120	
74	Ge	2	345731	0.73	370200	**93.4**	30	-	120	
74	Ge	3	1408411	1.31	1354000	**104.0**	30	-	120	
103	Rh	2	635767	1.37	687700	**92.4**	30	-	120	
103	Rh	3	1247104	1.91	1280000	**97.4**	30	-	120	
165	Ho	3	2648320	1.01	2556000	**103.6**	30	-	120	
175	Lu	3	2962353	1.02	2887000	**102.6**	30	-	120	
209	Bi	3	5737535	0.22	5936000	**96.7**	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\060210B.B\076SMPL.D\076SMPL.D#
Date Acquired: Jun 2 2010 07:59 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-C-7-A 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.001**	ug/l	0.01	141.1	450	6	P	
23	**Na**	2	**50.290**	ug/l	502.90	9.1	450000	45	P	
24	**Mg**	2	**315900.000**	ug/l	3,159,000.00	2.9	450000	45	A	
27	**Al**	2	**1955.000**	ug/l	19,550.00	1.4	450000	45	P	
31	**P**	2	**3.548**	ug/l	35.48	103.2	450000	45	P	
39	**K**	2	**-14.750**	ug/l	-147.50	12.1	450000	45	P	
40	**Ca**	1	**3290.000**	ug/l	32,900.00	0.5	450000	45	A	
47	**Ti**	2	**11.640**	ug/l	116.40	0.9	4500	45	P	
51	**V**	2	**23.700**	ug/l	237.00	2.8	4500	45	P	
52	**Cr**	2	**1143.000**	ug/l	11,430.00	2.2	4500	45	A	
54	**Fe**	1	**195000.000**	ug/l	1,950,000.00	0.3	450000	74	A	
55	**Mn**	2	**971.000**	ug/l	9,710.00	2.0	15000	45	A	
59	**Co**	2	**165.500**	ug/l	1,655.00	1.3	4500	45	P	
60	**Ni**	2	**3683.000**	ug/l	36,830.00	2.1	15000	45	A	
63	**Cu**	2	**12.550**	ug/l	125.50	1.0	15000	45	P	
66	**Zn**	2	**44.410**	ug/l	444.10	3.0	15000	45	P	
75	**As**	2	**0.882**	ug/l	8.82	8.5	4500	74	P	
78	**Se**	1	**0.013**	ug/l	0.13	96.2	450	74	P	
88	**Sr**	3	**97.500**	ug/l	975.00	4.5	4500	74	P	
95	**Mo**	3	**0.105**	ug/l	1.05	22.9	4500	74	P	
107	**Ag**	3	**0.001**	ug/l	0.01	178.9	450	103	P	
111	**Cd**	3	**0.006**	ug/l	0.06	465.2	900	103	P	
118	**Sn**	3	**0.062**	ug/l	0.62	15.2	4500	103	P	
121	**Sb**	3	**0.035**	ug/l	0.35	8.9	4500	103	P	
135	**Ba**	3	**36.090**	ug/l	360.90	5.9	4500	103	P	
200	**Hg**	3	**1.306**	ug/l	13.06	4.4	45	209	P	
205	**Tl**	3	**0.057**	ug/l	0.57	18.1	4500	209	P	
208	**Pb**	3	**1.014**	ug/l	10.14	4.5	4500	209	P	
238	**U**	3	**0.004**	ug/l	0.04	21.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4074242	1.56	4716000	**86.4**	30	-	120	
45	Sc	1	560721	3.14	659800	**85.0**	30	-	120	
45	Sc	2	241134	2.44	256100	**94.2**	30	-	120	
74	Ge	1	392861	2.64	495700	**79.3**	30	-	120	
74	Ge	2	324844	0.86	370200	**87.7**	30	-	120	
74	Ge	3	1326058	1.23	1354000	**97.9**	30	-	120	
103	Rh	2	604416	1.82	687700	**87.9**	30	-	120	
103	Rh	3	1184730	2.03	1280000	**92.6**	30	-	120	
165	Ho	3	2545277	1.90	2556000	**99.6**	30	-	120	
175	Lu	3	2840982	0.26	2887000	**98.4**	30	-	120	
209	Bi	3	5417128	2.00	5936000	**91.3**	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\060210B.B\077SMPL.D\077SMPL.D#
Date Acquired: Jun 2 2010 08:06 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-B-8-A 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**1.516**	ug/l	15.16	1.3	450	6	P	
23	**Na**	2	**27.110**	ug/l	271.10	1.8	450000	45	P	
24	**Mg**	2	**37250.000**	ug/l	372,500.00	0.9	450000	45	A	
27	**Al**	2	**39100.000**	ug/l	391,000.00	1.0	450000	45	A	
31	**P**	2	**578.700**	ug/l	5,787.00	3.0	450000	45	P	
39	**K**	2	**1748.000**	ug/l	17,480.00	1.1	450000	45	P	
40	**Ca**	1	**3869.000**	ug/l	38,690.00	0.4	450000	45	A	
47	**Ti**	2	**1852.000**	ug/l	18,520.00	0.9	4500	45	P	
51	**V**	2	**123.900**	ug/l	1,239.00	1.6	4500	45	P	
52	**Cr**	2	**316.000**	ug/l	3,160.00	2.0	4500	45	P	
54	**Fe**	1	**76450.000**	ug/l	764,500.00	0.1	450000	74	A	
55	**Mn**	2	**1680.000**	ug/l	16,800.00	0.7	15000	45	A	
59	**Co**	2	**51.280**	ug/l	512.80	1.0	4500	45	P	
60	**Ni**	2	**459.500**	ug/l	4,595.00	1.1	15000	45	P	
63	**Cu**	2	**88.690**	ug/l	886.90	1.2	15000	45	P	
66	**Zn**	2	**138.200**	ug/l	1,382.00	2.8	15000	45	P	
75	**As**	2	**16.240**	ug/l	162.40	1.0	4500	74	P	
78	**Se**	1	**0.232**	ug/l	2.32	28.0	450	74	P	
88	**Sr**	3	**29.200**	ug/l	292.00	0.4	4500	74	P	
95	**Mo**	3	**1.295**	ug/l	12.95	2.4	4500	74	P	
107	**Ag**	3	**0.089**	ug/l	0.89	17.1	450	103	P	
111	**Cd**	3	**0.330**	ug/l	3.30	22.9	900	103	P	
118	**Sn**	3	**1.225**	ug/l	12.25	3.0	4500	103	P	
121	**Sb**	3	**1.217**	ug/l	12.17	8.4	4500	103	P	
135	**Ba**	3	**474.500**	ug/l	4,745.00	0.8	4500	103	P	
200	**Hg**	3	**0.687**	ug/l	6.87	10.7	45	209	P	
205	**Tl**	3	**0.203**	ug/l	2.03	10.3	4500	209	P	
208	**Pb**	3	**23.550**	ug/l	235.50	1.2	4500	209	P	
238	**U**	3	**0.797**	ug/l	7.97	0.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4654129	1.46	4716000	**98.7**	30	-	120	
45	Sc	1	587238	2.33	659800	**89.0**	30	-	120	
45	Sc	2	266311	0.37	256100	**104.0**	30	-	120	
74	Ge	1	412237	2.07	495700	**83.2**	30	-	120	
74	Ge	2	356041	0.70	370200	**96.2**	30	-	120	
74	Ge	3	1469729	0.15	1354000	**108.5**	30	-	120	
103	Rh	2	660687	0.90	687700	**96.1**	30	-	120	
103	Rh	3	1301367	0.45	1280000	**101.7**	30	-	120	
165	Ho	3	2741993	0.33	2556000	**107.3**	30	-	120	
175	Lu	3	3021468	1.36	2887000	**104.7**	30	-	120	
209	Bi	3	5927769	0.44	5936000	**99.9**	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\060210B.B\078SMPL.D\078SMPL.D#
Date Acquired: Jun 2 2010 08:13 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-18-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**1.121**	ug/l	11.21	2.0	450	6	P	
23	**Na**	2	**26.080**	ug/l	260.80	13.3	450000	45	P	
24	**Mg**	2	**19680.000**	ug/l	196,800.00	1.9	450000	45	A	
27	**Al**	2	**29880.000**	ug/l	298,800.00	1.4	450000	45	A	
31	**P**	2	**906.500**	ug/l	9,065.00	2.0	450000	45	P	
39	**K**	2	**3000.000**	ug/l	30,000.00	2.2	450000	45	A	
40	**Ca**	1	**4620.000**	ug/l	46,200.00	0.4	450000	45	A	
47	**Ti**	2	**94.730**	ug/l	947.30	1.1	4500	45	P	
51	**V**	2	**83.280**	ug/l	832.80	1.5	4500	45	P	
52	**Cr**	2	**196.100**	ug/l	1,961.00	0.7	4500	45	P	
54	**Fe**	1	**75340.000**	ug/l	753,400.00	0.7	450000	74	A	
55	**Mn**	2	**1262.000**	ug/l	12,620.00	1.5	15000	45	A	
59	**Co**	2	**48.660**	ug/l	486.60	1.3	4500	45	P	
60	**Ni**	2	**489.800**	ug/l	4,898.00	1.7	15000	45	P	
63	**Cu**	2	**89.060**	ug/l	890.60	1.3	15000	45	P	
66	**Zn**	2	**189.500**	ug/l	1,895.00	2.1	15000	45	P	
75	**As**	2	**19.340**	ug/l	193.40	0.4	4500	74	P	
78	**Se**	1	**0.240**	ug/l	2.40	24.5	450	74	P	
88	**Sr**	3	**31.170**	ug/l	311.70	1.0	4500	74	P	
95	**Mo**	3	**1.263**	ug/l	12.63	4.5	4500	74	P	
107	**Ag**	3	**0.179**	ug/l	1.79	6.8	450	103	P	
111	**Cd**	3	**0.281**	ug/l	2.81	3.8	900	103	P	
118	**Sn**	3	**1.526**	ug/l	15.26	1.4	4500	103	P	
121	**Sb**	3	**0.908**	ug/l	9.08	3.6	4500	103	P	
135	**Ba**	3	**472.300**	ug/l	4,723.00	0.8	4500	103	P	
200	**Hg**	3	**79.390**	ug/l	793.90	2.1	45	209	P	Fail
205	**Tl**	3	**0.163**	ug/l	1.63	7.8	4500	209	P	
208	**Pb**	3	**44.490**	ug/l	444.90	2.4	4500	209	P	
238	**U**	3	**0.409**	ug/l	4.09	2.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4949459	0.98	4716000	**105.0**	30	-	120	
45	Sc	1	589830	2.31	659800	**89.4**	30	-	120	
45	Sc	2	272624	1.86	256100	**106.5**	30	-	120	
74	Ge	1	420439	1.29	495700	**84.8**	30	-	120	
74	Ge	2	369416	1.26	370200	**99.8**	30	-	120	
74	Ge	3	1526832	0.33	1354000	**112.8**	30	-	120	
103	Rh	2	683570	0.76	687700	**99.4**	30	-	120	
103	Rh	3	1338709	1.33	1280000	**104.6**	30	-	120	
165	Ho	3	2760557	1.20	2556000	**108.0**	30	-	120	
175	Lu	3	3050273	1.16	2887000	**105.7**	30	-	120	
209	Bi	3	6031205	1.59	5936000	**101.6**	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\060210B.B\079SMPL.D\079SMPL.D#
Date Acquired: Jun 2 2010 08:20 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-19-B Vial Number: 2509
Misc Info: 10X

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.386**	ug/l	3.86	3.7	450	6	P	
23	**Na**	2	**57.050**	ug/l	570.50	4.8	450000	45	P	
24	**Mg**	2	**27100.000**	ug/l	271,000.00	0.5	450000	45	A	
27	**Al**	2	**11460.000**	ug/l	114,600.00	1.3	450000	45	A	
31	**P**	2	**575.300**	ug/l	5,753.00	4.4	450000	45	P	
39	**K**	2	**975.600**	ug/l	9,756.00	0.8	450000	45	P	
40	**Ca**	1	**2784.000**	ug/l	27,840.00	0.9	450000	45	A	
47	**Ti**	2	**185.800**	ug/l	1,858.00	1.0	4500	45	P	
51	**V**	2	**56.280**	ug/l	562.80	0.7	4500	45	P	
52	**Cr**	2	**926.800**	ug/l	9,268.00	0.9	4500	45	A	
54	**Fe**	1	**123800.000**	ug/l	1,238,000.00	1.2	450000	74	A	
55	**Mn**	2	**877.400**	ug/l	8,774.00	0.3	15000	45	A	
59	**Co**	2	**145.800**	ug/l	1,458.00	0.7	4500	45	P	
60	**Ni**	2	**2151.000**	ug/l	21,510.00	0.8	15000	45	A	
63	**Cu**	2	**45.660**	ug/l	456.60	0.6	15000	45	P	
66	**Zn**	2	**95.390**	ug/l	953.90	2.0	15000	45	P	
75	**As**	2	**7.260**	ug/l	72.60	2.8	4500	74	P	
78	**Se**	1	**0.400**	ug/l	4.00	35.7	450	74	P	
88	**Sr**	3	**28.090**	ug/l	280.90	1.5	4500	74	P	
95	**Mo**	3	**0.818**	ug/l	8.18	7.6	4500	74	P	
107	**Ag**	3	**0.092**	ug/l	0.92	8.8	450	103	P	
111	**Cd**	3	**0.220**	ug/l	2.20	31.7	900	103	P	
118	**Sn**	3	**1.670**	ug/l	16.70	2.3	4500	103	P	
121	**Sb**	3	**1.302**	ug/l	13.02	2.6	4500	103	P	
135	**Ba**	3	**524.300**	ug/l	5,243.00	2.0	4500	103	P	
200	**Hg**	3	**1254.000**	ug/l	12,540.00	0.6	45	209	A	Fail
205	**Tl**	3	**0.440**	ug/l	4.40	2.0	4500	209	P	
208	**Pb**	3	**86.050**	ug/l	860.50	1.9	4500	209	P	
238	**U**	3	**0.499**	ug/l	4.99	2.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4548029	1.33	4716000	**96.4**	30	-	120	
45	Sc	1	573037	1.75	659800	**86.9**	30	-	120	
45	Sc	2	263417	1.37	256100	**102.9**	30	-	120	
74	Ge	1	415083	1.26	495700	**83.7**	30	-	120	
74	Ge	2	364961	1.84	370200	**98.6**	30	-	120	
74	Ge	3	1505045	1.32	1354000	**111.2**	30	-	120	
103	Rh	2	682219	1.55	687700	**99.2**	30	-	120	
103	Rh	3	1315038	1.58	1280000	**102.7**	30	-	120	
165	Ho	3	2752421	1.64	2556000	**107.7**	30	-	120	
175	Lu	3	3056586	2.05	2887000	**105.9**	30	-	120	
209	Bi	3	6026517	0.87	5936000	**101.5**	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\060210B.B\081SMPL.D\081SMPL.D#
Date Acquired: Jun 2 2010 08:34 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**48.820**	ug/l	48.82	3.8	450	6	P	
23	**Na**	2	**4717.000**	ug/l	4,717.00	2.0	450000	45	A	
24	**Mg**	2	**4775.000**	ug/l	4,775.00	0.4	450000	45	A	
27	**Al**	2	**464.500**	ug/l	464.50	0.9	450000	45	P	
31	**P**	2	**4714.000**	ug/l	4,714.00	1.2	450000	45	P	
39	**K**	2	**4827.000**	ug/l	4,827.00	1.5	450000	45	A	
40	**Ca**	1	**4796.000**	ug/l	4,796.00	0.9	450000	45	A	
47	**Ti**	2	**49.290**	ug/l	49.29	0.4	4500	45	P	
51	**V**	2	**49.560**	ug/l	49.56	2.2	4500	45	P	
52	**Cr**	2	**51.010**	ug/l	51.01	0.1	4500	45	P	
54	**Fe**	1	**5161.000**	ug/l	5,161.00	2.1	450000	74	P	
55	**Mn**	2	**50.150**	ug/l	50.15	1.0	15000	45	P	
59	**Co**	2	**51.220**	ug/l	51.22	0.8	4500	45	P	
60	**Ni**	2	**50.910**	ug/l	50.91	0.7	15000	45	P	
63	**Cu**	2	**51.880**	ug/l	51.88	0.8	15000	45	P	
66	**Zn**	2	**50.420**	ug/l	50.42	2.5	15000	45	P	
75	**As**	2	**49.550**	ug/l	49.55	1.2	4500	74	P	
78	**Se**	1	**50.860**	ug/l	50.86	1.9	450	74	P	
88	**Sr**	3	**50.930**	ug/l	50.93	3.5	4500	74	P	
95	**Mo**	3	**50.510**	ug/l	50.51	2.8	4500	74	P	
107	**Ag**	3	**49.540**	ug/l	49.54	2.5	450	103	P	
111	**Cd**	3	**49.170**	ug/l	49.17	4.6	900	103	P	
118	**Sn**	3	**49.630**	ug/l	49.63	6.0	4500	103	P	
121	**Sb**	3	**49.020**	ug/l	49.02	4.6	4500	103	P	
135	**Ba**	3	**49.550**	ug/l	49.55	3.1	4500	103	P	
200	**Hg**	3	**3.946**	ug/l	3.95	2.1	45	209	P	
205	**Tl**	3	**50.130**	ug/l	50.13	3.9	4500	209	P	
208	**Pb**	3	**50.570**	ug/l	50.57	2.3	4500	209	P	
238	**U**	3	**50.160**	ug/l	50.16	4.6	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	5178174	1.37	4716000	**109.8**	30	-	120	
45	Sc	1	554814	0.61	659800	**84.1**	30	-	120	
45	Sc	2	258269	0.43	256100	**100.8**	30	-	120	
74	Ge	1	434925	1.61	495700	**87.7**	30	-	120	
74	Ge	2	377329	1.32	370200	**101.9**	30	-	120	
74	Ge	3	1549367	1.68	1354000	**114.4**	30	-	120	
103	Rh	2	706036	0.55	687700	**102.7**	30	-	120	
103	Rh	3	1399917	1.75	1280000	**109.4**	30	-	120	
165	Ho	3	2810012	0.61	2556000	**109.9**	30	-	120	
175	Lu	3	3080340	0.97	2887000	**106.7**	30	-	120	
209	Bi	3	6254217	0.23	5936000	**105.4**	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\060210B.B\082SMPL.D\082SMPL.D#
Date Acquired: Jun 2 2010 08:41 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.010**	ug/l	0.01	49.4	450	6	P	
23	**Na**	2	**-27.590**	ug/l	-27.59	5.4	450000	45	P	
24	**Mg**	2	**3.683**	ug/l	3.68	16.6	450000	45	P	
27	**Al**	2	**0.206**	ug/l	0.21	87.1	450000	45	P	
31	**P**	2	**-12.450**	ug/l	-12.45	29.6	450000	45	P	
39	**K**	2	**-30.950**	ug/l	-30.95	13.2	450000	45	P	
40	**Ca**	1	**0.350**	ug/l	0.35	92.1	450000	45	P	
47	**Ti**	2	**0.037**	ug/l	0.04	55.8	4500	45	P	
51	**V**	2	**-0.166**	ug/l	-0.17	11.1	4500	45	P	
52	**Cr**	2	**0.005**	ug/l	0.01	286.6	4500	45	P	
54	**Fe**	1	**0.308**	ug/l	0.31	220.2	450000	74	P	
55	**Mn**	2	**0.021**	ug/l	0.02	68.7	15000	45	P	
59	**Co**	2	**0.011**	ug/l	0.01	47.4	4500	45	P	
60	**Ni**	2	**0.048**	ug/l	0.05	39.4	15000	45	P	
63	**Cu**	2	**0.003**	ug/l	0.00	351.8	15000	45	P	
66	**Zn**	2	**-0.018**	ug/l	-0.02	79.8	15000	45	P	
75	**As**	2	**-0.058**	ug/l	-0.06	23.6	4500	74	P	
78	**Se**	1	**-0.004**	ug/l	0.00	6.6	450	74	P	
88	**Sr**	3	**0.007**	ug/l	0.01	58.9	4500	74	P	
95	**Mo**	3	**0.017**	ug/l	0.02	76.9	4500	74	P	
107	**Ag**	3	**0.004**	ug/l	0.00	172.0	450	103	P	
111	**Cd**	3	**0.005**	ug/l	0.01	85.6	900	103	P	
118	**Sn**	3	**0.036**	ug/l	0.04	41.0	4500	103	P	
121	**Sb**	3	**0.022**	ug/l	0.02	15.5	4500	103	P	
135	**Ba**	3	**0.007**	ug/l	0.01	299.4	4500	103	P	
200	**Hg**	3	**1.098**	ug/l	1.10	2.8	45	209	P	
205	**Tl**	3	**0.205**	ug/l	0.20	11.4	4500	209	P	
208	**Pb**	3	**0.010**	ug/l	0.01	26.2	4500	209	P	
238	**U**	3	**0.009**	ug/l	0.01	10.3	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4922596	1.04	4716000	**104.4**	30	-	120	
45	Sc	1	564670	0.87	659800	**85.6**	30	-	120	
45	Sc	2	258172	0.85	256100	**100.8**	30	-	120	
74	Ge	1	444139	1.28	495700	**89.6**	30	-	120	
74	Ge	2	388280	0.52	370200	**104.9**	30	-	120	
74	Ge	3	1530069	1.48	1354000	**113.0**	30	-	120	
103	Rh	2	747123	1.00	687700	**108.6**	30	-	120	
103	Rh	3	1416793	1.40	1280000	**110.7**	30	-	120	
165	Ho	3	2829685	1.76	2556000	**110.7**	30	-	120	
175	Lu	3	3109964	1.71	2887000	**107.7**	30	-	120	
209	Bi	3	6485570	0.54	5936000	**109.3**	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\060210B.B\083SMPL.D\083SMPL.D#
Date Acquired: Jun 2 2010 08:49 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-20-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.269**	ug/l	2.69	1.1	450	6	P	
23	**Na**	2	**60.830**	ug/l	608.30	2.8	450000	45	P	
24	**Mg**	2	**39120.000**	ug/l	391,200.00	0.9	450000	45	A	
27	**Al**	2	**9469.000**	ug/l	94,690.00	1.6	450000	45	A	
31	**P**	2	**1057.000**	ug/l	10,570.00	1.7	450000	45	P	
39	**K**	2	**1274.000**	ug/l	12,740.00	1.8	450000	45	P	
40	**Ca**	1	**29180.000**	ug/l	291,800.00	1.6	450000	45	A	
47	**Ti**	2	**301.200**	ug/l	3,012.00	0.9	4500	45	P	
51	**V**	2	**48.580**	ug/l	485.80	0.8	4500	45	P	
52	**Cr**	2	**269.100**	ug/l	2,691.00	1.0	4500	45	P	
54	**Fe**	1	**150500.000**	ug/l	1,505,000.00	1.1	450000	74	A	
55	**Mn**	2	**1327.000**	ug/l	13,270.00	2.0	15000	45	A	
59	**Co**	2	**40.850**	ug/l	408.50	1.3	4500	45	P	
60	**Ni**	2	**635.300**	ug/l	6,353.00	1.4	15000	45	P	
63	**Cu**	2	**47.320**	ug/l	473.20	1.7	15000	45	P	
66	**Zn**	2	**1726.000**	ug/l	17,260.00	0.9	15000	45	P	
75	**As**	2	**19.880**	ug/l	198.80	0.5	4500	74	P	
78	**Se**	1	**0.289**	ug/l	2.89	31.9	450	74	P	
88	**Sr**	3	**190.800**	ug/l	1,908.00	2.4	4500	74	A	
95	**Mo**	3	**2.263**	ug/l	22.63	2.9	4500	74	P	
107	**Ag**	3	**0.075**	ug/l	0.75	17.4	450	103	P	
111	**Cd**	3	**3.002**	ug/l	30.02	9.9	900	103	P	
118	**Sn**	3	**9.287**	ug/l	92.87	1.3	4500	103	P	
121	**Sb**	3	**2.395**	ug/l	23.95	0.8	4500	103	P	
135	**Ba**	3	**280.900**	ug/l	2,809.00	1.3	4500	103	P	
200	**Hg**	3	**212.200**	ug/l	2,122.00	0.4	45	209	P	Fail
205	**Tl**	3	**0.265**	ug/l	2.65	7.9	4500	209	P	
208	**Pb**	3	**53.620**	ug/l	536.20	0.5	4500	209	P	
238	**U**	3	**0.553**	ug/l	5.53	0.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4617215	0.24	4716000	**97.9**	30	-	120	
45	Sc	1	550825	1.15	659800	**83.5**	30	-	120	
45	Sc	2	252972	0.35	256100	**98.8**	30	-	120	
74	Ge	1	421735	1.81	495700	**85.1**	30	-	120	
74	Ge	2	365050	1.19	370200	**98.6**	30	-	120	
74	Ge	3	1472319	1.49	1354000	**108.7**	30	-	120	
103	Rh	2	673221	0.49	687700	**97.9**	30	-	120	
103	Rh	3	1317284	1.43	1280000	**102.9**	30	-	120	
165	Ho	3	2726174	1.20	2556000	**106.7**	30	-	120	
175	Lu	3	3049248	1.15	2887000	**105.6**	30	-	120	
209	Bi	3	6111584	0.30	5936000	**103.0**	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\060210B.B\084SMPL.D\084SMPL.D#
Date Acquired: Jun 2 2010 08:56 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-B-21-B 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.034**	ug/l	0.34	22.6	450	6	P	
23	**Na**	2	**4.665**	ug/l	46.65	78.7	450000	45	P	
24	**Mg**	2	**347.500**	ug/l	3,475.00	1.6	450000	45	P	
27	**Al**	2	**1938.000**	ug/l	19,380.00	1.0	450000	45	P	
31	**P**	2	**404.000**	ug/l	4,040.00	2.5	450000	45	P	
39	**K**	2	**184.600**	ug/l	1,846.00	1.8	450000	45	P	
40	**Ca**	1	**490.400**	ug/l	4,904.00	1.0	450000	45	P	
47	**Ti**	2	**65.310**	ug/l	653.10	4.3	4500	45	P	
51	**V**	2	**43.980**	ug/l	439.80	0.7	4500	45	P	
52	**Cr**	2	**994.000**	ug/l	9,940.00	1.6	4500	45	A	
54	**Fe**	1	**88050.000**	ug/l	880,500.00	1.2	450000	74	A	
55	**Mn**	2	**142.000**	ug/l	1,420.00	1.1	15000	45	P	
59	**Co**	2	**13.040**	ug/l	130.40	1.0	4500	45	P	
60	**Ni**	2	**185.300**	ug/l	1,853.00	0.6	15000	45	P	
63	**Cu**	2	**27.690**	ug/l	276.90	2.1	15000	45	P	
66	**Zn**	2	**17.360**	ug/l	173.60	2.6	15000	45	P	
75	**As**	2	**2.865**	ug/l	28.65	2.5	4500	74	P	
78	**Se**	1	**0.536**	ug/l	5.36	18.3	450	74	P	
88	**Sr**	3	**3.560**	ug/l	35.60	0.9	4500	74	P	
95	**Mo**	3	**0.723**	ug/l	7.23	11.9	4500	74	P	
107	**Ag**	3	**0.050**	ug/l	0.50	20.9	450	103	P	
111	**Cd**	3	**0.076**	ug/l	0.76	22.6	900	103	P	
118	**Sn**	3	**0.630**	ug/l	6.30	4.5	4500	103	P	
121	**Sb**	3	**3.669**	ug/l	36.69	2.1	4500	103	P	
135	**Ba**	3	**18.910**	ug/l	189.10	5.2	4500	103	P	
200	**Hg**	3	**180.600**	ug/l	1,806.00	0.6	45	209	P	Fail
205	**Tl**	3	**0.105**	ug/l	1.05	9.4	4500	209	P	
208	**Pb**	3	**17.840**	ug/l	178.40	0.5	4500	209	P	
238	**U**	3	**0.052**	ug/l	0.52	1.6	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4526343	1.38	4716000	**96.0**	30	-	120	
45	Sc	1	537605	2.72	659800	**81.5**	30	-	120	
45	Sc	2	238080	2.22	256100	**93.0**	30	-	120	
74	Ge	1	410255	2.66	495700	**82.8**	30	-	120	
74	Ge	2	352908	1.59	370200	**95.3**	30	-	120	
74	Ge	3	1351547	1.03	1354000	**99.8**	30	-	120	
103	Rh	2	669240	1.02	687700	**97.3**	30	-	120	
103	Rh	3	1243910	0.96	1280000	**97.2**	30	-	120	
165	Ho	3	2650062	0.55	2556000	**103.7**	30	-	120	
175	Lu	3	2958074	1.83	2887000	**102.5**	30	-	120	
209	Bi	3	6071644	0.20	5936000	**102.3**	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\060210B.B\085SMPL.D\085SMPL.D#
Date Acquired: Jun 2 2010 09:03 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-22-B 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	0.8	450	6	P	
23	**Na**	2	**8.472**	ug/l	84.72	27.6	450000	45	P	
24	**Mg**	2	**61450.000**	ug/l	614,500.00	1.7	450000	45	A	
27	**Al**	2	**17180.000**	ug/l	171,800.00	0.6	450000	45	A	
31	**P**	2	**1059.000**	ug/l	10,590.00	1.9	450000	45	P	
39	**K**	2	**1734.000**	ug/l	17,340.00	2.0	450000	45	P	
40	**Ca**	1	**4008.000**	ug/l	40,080.00	1.7	450000	45	A	
47	**Ti**	2	**49.540**	ug/l	495.40	3.7	4500	45	P	
51	**V**	2	**86.050**	ug/l	860.50	1.0	4500	45	P	
52	**Cr**	2	**466.300**	ug/l	4,663.00	1.1	4500	45	A	
54	**Fe**	1	**105200.000**	ug/l	1,052,000.00	1.8	450000	74	A	
55	**Mn**	2	**1773.000**	ug/l	17,730.00	2.0	15000	45	A	
59	**Co**	2	**125.900**	ug/l	1,259.00	1.0	4500	45	P	
60	**Ni**	2	**2185.000**	ug/l	21,850.00	2.0	15000	45	A	
63	**Cu**	2	**91.650**	ug/l	916.50	0.4	15000	45	P	
66	**Zn**	2	**201.900**	ug/l	2,019.00	0.2	15000	45	P	
75	**As**	2	**15.780**	ug/l	157.80	1.7	4500	74	P	
78	**Se**	1	**0.410**	ug/l	4.10	14.0	450	74	P	
88	**Sr**	3	**32.990**	ug/l	329.90	1.9	4500	74	P	
95	**Mo**	3	**1.158**	ug/l	11.58	10.9	4500	74	P	
107	**Ag**	3	**0.148**	ug/l	1.48	10.4	450	103	P	
111	**Cd**	3	**0.401**	ug/l	4.01	18.0	900	103	P	
118	**Sn**	3	**3.587**	ug/l	35.87	3.0	4500	103	P	
121	**Sb**	3	**1.357**	ug/l	13.57	1.6	4500	103	P	
135	**Ba**	3	**325.200**	ug/l	3,252.00	1.1	4500	103	P	
200	**Hg**	3	**94.530**	ug/l	945.30	1.2	45	209	P	Fail
205	**Tl**	3	**0.176**	ug/l	1.76	5.3	4500	209	P	
208	**Pb**	3	**44.700**	ug/l	447.00	1.2	4500	209	P	
238	**U**	3	**0.331**	ug/l	3.31	2.4	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4628430	3.22	4716000	**98.1**	30	-	120	
45	Sc	1	565134	2.14	659800	**85.7**	30	-	120	
45	Sc	2	260163	1.86	256100	**101.6**	30	-	120	
74	Ge	1	397950	1.06	495700	**80.3**	30	-	120	
74	Ge	2	347514	1.18	370200	**93.9**	30	-	120	
74	Ge	3	1435625	2.02	1354000	**106.0**	30	-	120	
103	Rh	2	641118	1.17	687700	**93.2**	30	-	120	
103	Rh	3	1272269	0.69	1280000	**99.4**	30	-	120	
165	Ho	3	2740870	0.55	2556000	**107.2**	30	-	120	
175	Lu	3	2994426	1.82	2887000	**103.7**	30	-	120	
209	Bi	3	5872167	0.65	5936000	**98.9**	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\060210B.B\086SMPL.D\086SMPL.D#
Date Acquired: Jun 2 2010 09:10 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-23-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.852**	ug/l	8.52	0.9	450	6	P	
23	**Na**	2	**24.000**	ug/l	240.00	11.3	450000	45	P	
24	**Mg**	2	**103100.000**	ug/l	1,031,000.00	1.4	450000	45	A	
27	**Al**	2	**22650.000**	ug/l	226,500.00	1.2	450000	45	A	
31	**P**	2	**560.500**	ug/l	5,605.00	2.8	450000	45	P	
39	**K**	2	**1317.000**	ug/l	13,170.00	0.6	450000	45	P	
40	**Ca**	1	**2450.000**	ug/l	24,500.00	0.7	450000	45	A	
47	**Ti**	2	**64.270**	ug/l	642.70	1.3	4500	45	P	
51	**V**	2	**77.870**	ug/l	778.70	0.8	4500	45	P	
52	**Cr**	2	**494.100**	ug/l	4,941.00	1.4	4500	45	A	
54	**Fe**	1	**85100.000**	ug/l	851,000.00	0.8	450000	74	A	
55	**Mn**	2	**1525.000**	ug/l	15,250.00	2.0	15000	45	A	
59	**Co**	2	**105.500**	ug/l	1,055.00	0.3	4500	45	P	
60	**Ni**	2	**1724.000**	ug/l	17,240.00	1.7	15000	45	A	
63	**Cu**	2	**67.150**	ug/l	671.50	0.2	15000	45	P	
66	**Zn**	2	**124.800**	ug/l	1,248.00	2.8	15000	45	P	
75	**As**	2	**14.480**	ug/l	144.80	2.2	4500	74	P	
78	**Se**	1	**0.311**	ug/l	3.11	3.6	450	74	P	
88	**Sr**	3	**16.620**	ug/l	166.20	1.5	4500	74	P	
95	**Mo**	3	**0.714**	ug/l	7.14	6.9	4500	74	P	
107	**Ag**	3	**0.097**	ug/l	0.97	16.4	450	103	P	
111	**Cd**	3	**0.267**	ug/l	2.67	14.0	900	103	P	
118	**Sn**	3	**0.851**	ug/l	8.51	1.3	4500	103	P	
121	**Sb**	3	**0.620**	ug/l	6.20	3.4	4500	103	P	
135	**Ba**	3	**419.300**	ug/l	4,193.00	1.2	4500	103	P	
200	**Hg**	3	**121.800**	ug/l	1,218.00	0.8	45	209	P	Fail
205	**Tl**	3	**0.131**	ug/l	1.31	7.6	4500	209	P	
208	**Pb**	3	**21.560**	ug/l	215.60	0.8	4500	209	P	
238	**U**	3	**0.202**	ug/l	2.02	5.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4639007	2.02	4716000	**98.4**	30	-	120	
45	Sc	1	555556	0.98	659800	**84.2**	30	-	120	
45	Sc	2	261052	1.15	256100	**101.9**	30	-	120	
74	Ge	1	395953	0.34	495700	**79.9**	30	-	120	
74	Ge	2	350798	0.96	370200	**94.8**	30	-	120	
74	Ge	3	1452416	1.73	1354000	**107.3**	30	-	120	
103	Rh	2	648455	1.12	687700	**94.3**	30	-	120	
103	Rh	3	1262051	0.38	1280000	**98.6**	30	-	120	
165	Ho	3	2722966	2.48	2556000	**106.5**	30	-	120	
175	Lu	3	2994040	0.59	2887000	**103.7**	30	-	120	
209	Bi	3	5743703	1.02	5936000	**96.8**	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\060210B.B\087SMPL.D\087SMPL.D#
Date Acquired: Jun 2 2010 09:17 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-24-B 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**1.144**	ug/l	11.44	3.2	450	6	P	
23	**Na**	2	**28.200**	ug/l	282.00	5.6	450000	45	P	
24	**Mg**	2	**77280.000**	ug/l	772,800.00	0.9	450000	45	A	
27	**Al**	2	**32040.000**	ug/l	320,400.00	0.1	450000	45	A	
31	**P**	2	**945.500**	ug/l	9,455.00	1.7	450000	45	P	
39	**K**	2	**1795.000**	ug/l	17,950.00	1.2	450000	45	P	
40	**Ca**	1	**3745.000**	ug/l	37,450.00	0.4	450000	45	A	
47	**Ti**	2	**107.700**	ug/l	1,077.00	0.9	4500	45	P	
51	**V**	2	**108.300**	ug/l	1,083.00	0.7	4500	45	P	
52	**Cr**	2	**658.500**	ug/l	6,585.00	2.2	4500	45	A	
54	**Fe**	1	**112900.000**	ug/l	1,129,000.00	0.7	450000	74	A	
55	**Mn**	2	**2838.000**	ug/l	28,380.00	1.4	15000	45	A	
59	**Co**	2	**136.400**	ug/l	1,364.00	0.6	4500	45	P	
60	**Ni**	2	**2276.000**	ug/l	22,760.00	0.4	15000	45	A	
63	**Cu**	2	**100.100**	ug/l	1,001.00	1.2	15000	45	P	
66	**Zn**	2	**177.700**	ug/l	1,777.00	1.2	15000	45	P	
75	**As**	2	**15.580**	ug/l	155.80	3.9	4500	74	P	
78	**Se**	1	**0.571**	ug/l	5.71	31.8	450	74	P	
88	**Sr**	3	**30.870**	ug/l	308.70	0.3	4500	74	P	
95	**Mo**	3	**1.118**	ug/l	11.18	10.7	4500	74	P	
107	**Ag**	3	**0.173**	ug/l	1.73	6.0	450	103	P	
111	**Cd**	3	**0.363**	ug/l	3.63	9.7	900	103	P	
118	**Sn**	3	**1.295**	ug/l	12.95	5.9	4500	103	P	
121	**Sb**	3	**0.909**	ug/l	9.09	5.5	4500	103	P	
135	**Ba**	3	**615.600**	ug/l	6,156.00	1.7	4500	103	P	
200	**Hg**	3	**320.800**	ug/l	3,208.00	1.3	45	209	P	Fail
205	**Tl**	3	**0.182**	ug/l	1.82	5.1	4500	209	P	
208	**Pb**	3	**47.390**	ug/l	473.90	2.3	4500	209	P	
238	**U**	3	**0.331**	ug/l	3.31	4.1	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4566284	0.52	4716000	**96.8**	30	-	120	
45	Sc	1	564634	1.65	659800	**85.6**	30	-	120	
45	Sc	2	273204	1.26	256100	**106.7**	30	-	120	
74	Ge	1	389293	1.06	495700	**78.5**	30	-	120	
74	Ge	2	356489	1.99	370200	**96.3**	30	-	120	
74	Ge	3	1470054	0.47	1354000	**108.6**	30	-	120	
103	Rh	2	656627	1.57	687700	**95.5**	30	-	120	
103	Rh	3	1284360	1.81	1280000	**100.3**	30	-	120	
165	Ho	3	2705010	0.77	2556000	**105.8**	30	-	120	
175	Lu	3	2969796	0.47	2887000	**102.9**	30	-	120	
209	Bi	3	5828741	0.98	5936000	**98.2**	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\060210B.B\088SMPL.D\088SMPL.D#
Date Acquired: Jun 2 2010 09:24 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-25-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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**1.106**	ug/l	11.06	1.0	450	6	P	
23	**Na**	2	**16.380**	ug/l	163.80	2.9	450000	45	P	
24	**Mg**	2	**78930.000**	ug/l	789,300.00	0.5	450000	45	A	
27	**Al**	2	**15860.000**	ug/l	158,600.00	0.8	450000	45	A	
31	**P**	2	**642.000**	ug/l	6,420.00	0.7	450000	45	P	
39	**K**	2	**1606.000**	ug/l	16,060.00	0.1	450000	45	P	
40	**Ca**	1	**1885.000**	ug/l	18,850.00	0.8	450000	45	A	
47	**Ti**	2	**18.090**	ug/l	180.90	7.1	4500	45	P	
51	**V**	2	**80.060**	ug/l	800.60	1.3	4500	45	P	
52	**Cr**	2	**494.500**	ug/l	4,945.00	0.4	4500	45	A	
54	**Fe**	1	**136200.000**	ug/l	1,362,000.00	1.5	450000	74	A	
55	**Mn**	2	**1978.000**	ug/l	19,780.00	0.5	15000	45	A	
59	**Co**	2	**190.000**	ug/l	1,900.00	0.4	4500	45	P	
60	**Ni**	2	**3621.000**	ug/l	36,210.00	0.5	15000	45	A	
63	**Cu**	2	**75.620**	ug/l	756.20	1.2	15000	45	P	
66	**Zn**	2	**144.000**	ug/l	1,440.00	1.2	15000	45	P	
75	**As**	2	**16.880**	ug/l	168.80	3.0	4500	74	P	
78	**Se**	1	**0.472**	ug/l	4.72	22.5	450	74	P	
88	**Sr**	3	**21.050**	ug/l	210.50	0.6	4500	74	P	
95	**Mo**	3	**1.451**	ug/l	14.51	2.0	4500	74	P	
107	**Ag**	3	**0.155**	ug/l	1.55	3.0	450	103	P	
111	**Cd**	3	**0.309**	ug/l	3.09	12.6	900	103	P	
118	**Sn**	3	**1.535**	ug/l	15.35	6.4	4500	103	P	
121	**Sb**	3	**2.397**	ug/l	23.97	2.9	4500	103	P	
135	**Ba**	3	**247.500**	ug/l	2,475.00	1.9	4500	103	P	
200	**Hg**	3	**122.600**	ug/l	1,226.00	0.4	45	209	P	Fail
205	**Tl**	3	**0.192**	ug/l	1.92	2.1	4500	209	P	
208	**Pb**	3	**48.430**	ug/l	484.30	0.3	4500	209	P	
238	**U**	3	**0.367**	ug/l	3.67	1.9	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4510062	0.23	4716000	**95.6**	30	-	120	
45	Sc	1	573075	1.76	659800	**86.9**	30	-	120	
45	Sc	2	275928	0.33	256100	**107.7**	30	-	120	
74	Ge	1	387136	2.39	495700	**78.1**	30	-	120	
74	Ge	2	356008	1.49	370200	**96.2**	30	-	120	
74	Ge	3	1455273	0.96	1354000	**107.5**	30	-	120	
103	Rh	2	659406	1.11	687700	**95.9**	30	-	120	
103	Rh	3	1301884	0.99	1280000	**101.7**	30	-	120	
165	Ho	3	2714127	0.96	2556000	**106.2**	30	-	120	
175	Lu	3	2985630	2.10	2887000	**103.4**	30	-	120	
209	Bi	3	5778590	0.44	5936000	**97.3**	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\060210B.B\089SMPL.D\089SMPL.D#
Date Acquired: Jun 2 2010 09:31 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-26-B Vial Number: 3107
Misc Info:

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.851**	ug/l	8.51	4.6	450	6	P	
23	**Na**	2	**34.130**	ug/l	341.30	24.4	450000	45	P	
24	**Mg**	2	**81680.000**	ug/l	816,800.00	0.7	450000	45	A	
27	**Al**	2	**24000.000**	ug/l	240,000.00	2.4	450000	45	A	
31	**P**	2	**818.500**	ug/l	8,185.00	4.6	450000	45	P	
39	**K**	2	**2014.000**	ug/l	20,140.00	0.6	450000	45	A	
40	**Ca**	1	**3373.000**	ug/l	33,730.00	1.3	450000	45	A	
47	**Ti**	2	**124.600**	ug/l	1,246.00	1.9	4500	45	P	
51	**V**	2	**79.300**	ug/l	793.00	1.0	4500	45	P	
52	**Cr**	2	**349.400**	ug/l	3,494.00	1.1	4500	45	A	
54	**Fe**	1	**88760.000**	ug/l	887,600.00	2.1	450000	74	A	
55	**Mn**	2	**1411.000**	ug/l	14,110.00	0.8	15000	45	A	
59	**Co**	2	**104.200**	ug/l	1,042.00	1.1	4500	45	P	
60	**Ni**	2	**1677.000**	ug/l	16,770.00	1.6	15000	45	A	
63	**Cu**	2	**64.390**	ug/l	643.90	1.4	15000	45	P	
66	**Zn**	2	**142.500**	ug/l	1,425.00	1.4	15000	45	P	
75	**As**	2	**14.230**	ug/l	142.30	2.3	4500	74	P	
78	**Se**	1	**0.127**	ug/l	1.27	42.2	450	74	P	
88	**Sr**	3	**20.720**	ug/l	207.20	1.5	4500	74	P	
95	**Mo**	3	**0.886**	ug/l	8.86	5.0	4500	74	P	
107	**Ag**	3	**0.092**	ug/l	0.92	18.3	450	103	P	
111	**Cd**	3	**0.293**	ug/l	2.93	5.1	900	103	P	
118	**Sn**	3	**0.877**	ug/l	8.77	8.4	4500	103	P	
121	**Sb**	3	**0.855**	ug/l	8.55	4.2	4500	103	P	
135	**Ba**	3	**407.400**	ug/l	4,074.00	1.5	4500	103	P	
200	**Hg**	3	**93.340**	ug/l	933.40	1.0	45	209	P	Fail
205	**Tl**	3	**0.133**	ug/l	1.33	2.8	4500	209	P	
208	**Pb**	3	**51.150**	ug/l	511.50	1.3	4500	209	P	
238	**U**	3	**0.312**	ug/l	3.12	3.0	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4716656	2.09	4716000	**100.0**	30	-	120	
45	Sc	1	534243	1.22	659800	**81.0**	30	-	120	
45	Sc	2	262227	0.98	256100	**102.4**	30	-	120	
74	Ge	1	377955	1.59	495700	**76.2**	30	-	120	
74	Ge	2	356870	1.00	370200	**96.4**	30	-	120	
74	Ge	3	1466223	1.84	1354000	**108.3**	30	-	120	
103	Rh	2	657829	0.73	687700	**95.7**	30	-	120	
103	Rh	3	1302557	0.43	1280000	**101.8**	30	-	120	
165	Ho	3	2721206	0.77	2556000	**106.5**	30	-	120	
175	Lu	3	2991329	0.79	2887000	**103.6**	30	-	120	
209	Bi	3	5750108	0.89	5936000	**96.9**	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\060210B.B\090SMPL.D\090SMPL.D#
Date Acquired: Jun 2 2010 09:38 pm Acq. Method: 0NEW_ALL.M
Sample Name: 580-19403-A-27-B Vial Number: 3108
Misc Info: 10X

Current Method: C:\ICPCHEM\1\METHODS\0NEW_REP.M Operator: FCW ICP-MS ID#SEA44
Calibration File: C:\ICPCHEM\1\CALIB\0NEW_REP.C
Last Cal. Update: Jun 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**0.838**	ug/l	8.38	2.7	450	6	P	
23	**Na**	2	**18.730**	ug/l	187.30	21.3	450000	45	P	
24	**Mg**	2	**71190.000**	ug/l	711,900.00	1.1	450000	45	A	
27	**Al**	2	**27910.000**	ug/l	279,100.00	0.8	450000	45	A	
31	**P**	2	**777.900**	ug/l	7,779.00	1.8	450000	45	P	
39	**K**	2	**1454.000**	ug/l	14,540.00	0.7	450000	45	P	
40	**Ca**	1	**4701.000**	ug/l	47,010.00	2.0	450000	45	A	
47	**Ti**	2	**161.400**	ug/l	1,614.00	1.5	4500	45	P	
51	**V**	2	**105.000**	ug/l	1,050.00	1.3	4500	45	P	
52	**Cr**	2	**612.200**	ug/l	6,122.00	2.3	4500	45	A	
54	**Fe**	1	**90280.000**	ug/l	902,800.00	0.3	450000	74	A	
55	**Mn**	2	**1698.000**	ug/l	16,980.00	0.9	15000	45	A	
59	**Co**	2	**108.200**	ug/l	1,082.00	0.6	4500	45	P	
60	**Ni**	2	**1805.000**	ug/l	18,050.00	0.6	15000	45	A	
63	**Cu**	2	**71.230**	ug/l	712.30	0.9	15000	45	P	
66	**Zn**	2	**132.400**	ug/l	1,324.00	0.6	15000	45	P	
75	**As**	2	**13.940**	ug/l	139.40	1.4	4500	74	P	
78	**Se**	1	**0.386**	ug/l	3.86	26.5	450	74	P	
88	**Sr**	3	**30.140**	ug/l	301.40	2.5	4500	74	P	
95	**Mo**	3	**1.009**	ug/l	10.09	6.1	4500	74	P	
107	**Ag**	3	**0.115**	ug/l	1.15	5.7	450	103	P	
111	**Cd**	3	**0.610**	ug/l	6.10	9.4	900	103	P	
118	**Sn**	3	**1.018**	ug/l	10.18	7.8	4500	103	P	
121	**Sb**	3	**0.821**	ug/l	8.21	2.9	4500	103	P	
135	**Ba**	3	**484.600**	ug/l	4,846.00	1.5	4500	103	P	
200	**Hg**	3	**954.900**	ug/l	9,549.00	0.1	45	209	A	Fail
205	**Tl**	3	**0.139**	ug/l	1.39	2.6	4500	209	P	
208	**Pb**	3	**77.290**	ug/l	772.90	1.6	4500	209	P	
238	**U**	3	**0.284**	ug/l	2.84	3.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4709056	0.84	4716000	**99.9**	30	-	120	
45	Sc	1	552733	1.64	659800	**83.8**	30	-	120	
45	Sc	2	270577	0.99	256100	**105.7**	30	-	120	
74	Ge	1	389126	1.01	495700	**78.5**	30	-	120	
74	Ge	2	365393	0.84	370200	**98.7**	30	-	120	
74	Ge	3	1502099	1.92	1354000	**110.9**	30	-	120	
103	Rh	2	667087	1.14	687700	**97.0**	30	-	120	
103	Rh	3	1325719	0.85	1280000	**103.6**	30	-	120	
165	Ho	3	2747179	0.68	2556000	**107.5**	30	-	120	
175	Lu	3	3013873	0.45	2887000	**104.4**	30	-	120	
209	Bi	3	5877298	0.94	5936000	**99.0**	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\060210B.B\092SMPL.D\092SMPL.D#
Date Acquired: Jun 2 2010 09:53 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	**48.890**	ug/l	48.89	5.0	450	6	P	
23	**Na**	2	**4750.000**	ug/l	4,750.00	1.2	450000	45	A	
24	**Mg**	2	**4750.000**	ug/l	4,750.00	0.9	450000	45	A	
27	**Al**	2	**466.200**	ug/l	466.20	0.9	450000	45	P	
31	**P**	2	**4646.000**	ug/l	4,646.00	0.6	450000	45	P	
39	**K**	2	**4856.000**	ug/l	4,856.00	0.4	450000	45	A	
40	**Ca**	1	**4662.000**	ug/l	4,662.00	0.2	450000	45	A	
47	**Ti**	2	**49.790**	ug/l	49.79	2.3	4500	45	P	
51	**V**	2	**50.280**	ug/l	50.28	0.3	4500	45	P	
52	**Cr**	2	**51.700**	ug/l	51.70	0.8	4500	45	P	
54	**Fe**	1	**5198.000**	ug/l	5,198.00	0.4	450000	74	P	
55	**Mn**	2	**50.780**	ug/l	50.78	0.2	15000	45	P	
59	**Co**	2	**52.010**	ug/l	52.01	0.4	4500	45	P	
60	**Ni**	2	**52.820**	ug/l	52.82	2.8	15000	45	P	
63	**Cu**	2	**52.380**	ug/l	52.38	1.3	15000	45	P	
66	**Zn**	2	**50.100**	ug/l	50.10	2.5	15000	45	P	
75	**As**	2	**49.690**	ug/l	49.69	1.9	4500	74	P	
78	**Se**	1	**51.780**	ug/l	51.78	0.5	450	74	P	
88	**Sr**	3	**50.830**	ug/l	50.83	4.9	4500	74	P	
95	**Mo**	3	**49.950**	ug/l	49.95	6.4	4500	74	P	
107	**Ag**	3	**50.100**	ug/l	50.10	1.7	450	103	P	
111	**Cd**	3	**49.940**	ug/l	49.94	4.8	900	103	P	
118	**Sn**	3	**49.320**	ug/l	49.32	6.5	4500	103	P	
121	**Sb**	3	**49.750**	ug/l	49.75	4.3	4500	103	P	
135	**Ba**	3	**49.930**	ug/l	49.93	3.7	4500	103	P	
200	**Hg**	3	**4.009**	ug/l	4.01	2.9	45	209	P	
205	**Tl**	3	**49.030**	ug/l	49.03	5.5	4500	209	P	
208	**Pb**	3	**49.580**	ug/l	49.58	3.6	4500	209	P	
238	**U**	3	**49.460**	ug/l	49.46	6.3	4500	209	A	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4966036	0.89	4716000	**105.3**	30	-	120	
45	Sc	1	520845	0.63	659800	**78.9**	30	-	120	
45	Sc	2	245435	0.83	256100	**95.8**	30	-	120	
74	Ge	1	401383	0.47	495700	**81.0**	30	-	120	
74	Ge	2	365579	0.28	370200	**98.8**	30	-	120	
74	Ge	3	1501210	1.30	1354000	**110.9**	30	-	120	
103	Rh	2	684831	0.84	687700	**99.6**	30	-	120	
103	Rh	3	1345773	0.98	1280000	**105.1**	30	-	120	
165	Ho	3	2752969	0.41	2556000	**107.7**	30	-	120	
175	Lu	3	3064400	1.23	2887000	**106.1**	30	-	120	
209	Bi	3	6216100	0.91	5936000	**104.7**	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\060210B.B\093SMPL.D\093SMPL.D#
Date Acquired: Jun 2 2010 10:00 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 03 2010 05:40 am
ISTD Ref File : C:\ICPCHEM\1\DATA\060210B.B\005CALB.D\005CALB.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	12.2	450	6	P	
23	**Na**	2	**-23.570**	ug/l	-23.57	5.4	450000	45	P	
24	**Mg**	2	**2.667**	ug/l	2.67	9.4	450000	45	P	
27	**Al**	2	**0.148**	ug/l	0.15	135.9	450000	45	P	
31	**P**	2	**-7.991**	ug/l	-7.99	83.4	450000	45	P	
39	**K**	2	**-24.750**	ug/l	-24.75	11.2	450000	45	P	
40	**Ca**	1	**-0.012**	ug/l	-0.01	739.9	450000	45	P	
47	**Ti**	2	**0.032**	ug/l	0.03	45.1	4500	45	P	
51	**V**	2	**-0.211**	ug/l	-0.21	29.8	4500	45	P	
52	**Cr**	2	**0.014**	ug/l	0.01	121.5	4500	45	P	
54	**Fe**	1	**-0.115**	ug/l	-0.12	313.2	450000	74	P	
55	**Mn**	2	**0.032**	ug/l	0.03	25.9	15000	45	P	
59	**Co**	2	**0.012**	ug/l	0.01	40.8	4500	45	P	
60	**Ni**	2	**0.055**	ug/l	0.06	46.4	15000	45	P	
63	**Cu**	2	**-0.002**	ug/l	0.00	1469.6	15000	45	P	
66	**Zn**	2	**-0.021**	ug/l	-0.02	416.6	15000	45	P	
75	**As**	2	**-0.037**	ug/l	-0.04	54.4	4500	74	P	
78	**Se**	1	**-0.015**	ug/l	-0.01	79.7	450	74	P	
88	**Sr**	3	**0.013**	ug/l	0.01	22.9	4500	74	P	
95	**Mo**	3	**0.040**	ug/l	0.04	23.5	4500	74	P	
107	**Ag**	3	**0.003**	ug/l	0.00	89.1	450	103	P	
111	**Cd**	3	**0.003**	ug/l	0.00	307.2	900	103	P	
118	**Sn**	3	**0.046**	ug/l	0.05	41.2	4500	103	P	
121	**Sb**	3	**0.020**	ug/l	0.02	18.6	4500	103	P	
135	**Ba**	3	**0.013**	ug/l	0.01	281.8	4500	103	P	
200	**Hg**	3	**1.014**	ug/l	1.01	3.9	45	209	P	
205	**Tl**	3	**0.199**	ug/l	0.20	2.1	4500	209	P	
208	**Pb**	3	**0.006**	ug/l	0.01	25.8	4500	209	P	
238	**U**	3	**0.010**	ug/l	0.01	34.5	4500	209	P	

ISTD Elements

IS	Mass	Tune	CPS Mean	RSD(%)	Ref Value	Rec(%)	QC Range(%)			Flag
6	Li	3	4683313	1.09	4716000	**99.3**	30	-	120	
45	Sc	1	500447	1.24	659800	**75.8**	30	-	120	
45	Sc	2	241265	0.98	256100	**94.2**	30	-	120	
74	Ge	1	396833	0.76	495700	**80.1**	30	-	120	
74	Ge	2	365517	0.51	370200	**98.7**	30	-	120	
74	Ge	3	1477735	0.85	1354000	**109.1**	30	-	120	
103	Rh	2	707459	0.23	687700	**102.9**	30	-	120	
103	Rh	3	1344974	1.11	1280000	**105.1**	30	-	120	
165	Ho	3	2725287	0.77	2556000	**106.6**	30	-	120	
175	Lu	3	3073040	0.82	2887000	**106.4**	30	-	120	
209	Bi	3	6348718	1.28	5936000	**107.0**	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

Metals Worksheet

Batch Number: 580-63971
Method: FILTRATION
Analyst: Palmquist, Stan

Date Open: May 20 2010 11:58AM
Batch End: May 20 2010 12:02PM

Lab ID	Client ID	Method Chain	Basis	Initial weight/volume of sample	Final weight/volume of sample
MB~580-63971/1		FIELD_FLTRD, 6020		250 mL	250 mL
580-19305-A-1			D	250 mL	250 mL
580-19305-B-1			D	250 mL	250 mL

Metals Worksheet

Batch Number: 580-64088
Method: 3005A
Analyst: Boritz, Ben A

Date Open: May 21 2010 12:18PM
Batch End: May 21 2010 4:18PM

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
580-19403-A-1	09HMMW	3005A, FIELD_FLTRD, 6020	D	50 mL	50 mL				
580-19403-A-1~DU	09HMMW	3005A, FIELD_FLTRD, 6020	D	50 mL	50 mL				
580-19403-A-1~MS	09HMMW	3005A, FIELD_FLTRD, 6020	D	50 mL	50 mL	1 mL	1 mL	1 mL	1 mL
580-19403-A-1~MSD	09HMMW	3005A, FIELD_FLTRD, 6020	D	50 mL	50 mL	1 mL	1 mL	1 mL	1 mL
580-19403-A-2	01CMMW	3005A, FIELD_FLTRD, 6020	D	50 mL	50 mL				
580-19403-A-3	03CMMW	3005A, FIELD_FLTRD, 6020	D	50 mL	50 mL				
580-19403-A-4	07CMMW	3005A, FIELD_FLTRD, 6020	D	50 mL	50 mL				
580-19403-A-9	01SMMW	3005A, FIELD_FLTRD, 6020	D	50 mL	50 mL				
580-19403-A-10	04SMMW	3005A, FIELD_FLTRD, 6020	D	50 mL	50 mL				
580-19403-A-11	06SMMW	3005A, FIELD_FLTRD, 6020	D	50 mL	50 mL				
580-19403-A-12	07SMMW	3005A, FIELD_FLTRD, 6020	D	50 mL	50 mL				
580-19403-A-13	09SMMW	3005A, FIELD_FLTRD, 6020	D	50 mL	50 mL				
580-19403-A-14	01HMMW	3005A, FIELD_FLTRD, 6020	D	50 mL	50 mL				
580-19403-A-15	03HMSW	3005A, FIELD_FLTRD, 6020	D	50 mL	50 mL				
580-19403-A-16	04HMMW	3005A, FIELD_FLTRD, 6020	D	50 mL	50 mL				
580-19403-A-17	06HMMW	3005A, FIELD_FLTRD, 6020	D	50 mL	50 mL				

Metals Worksheet

Batch Number: 580-64088

Method: 3005A

Analyst: Boritz, Ben A

Date Open: May 21 2010 12:18PM

Batch End: May 21 2010 4:18PM

580-19305-A-1-A		D	50 mL	50 mL				
MB~580-63971/1-A	3005A, FIELD_FLTRD, 6020		50 mL	50 mL				
MB~580-64088/19	3005A, FIELD_FLTRD, 6020		50 mL	50 mL				
LCS~580-64088/20	3005A, FIELD_FLTRD, 6020		50 mL	50 mL	1 mL	1 mL	1 mL	1 mL
LCSD~580-64088/21	3005A, FIELD_FLTRD, 6020		50 mL	50 mL	1 mL	1 mL	1 mL	1 mL
LCSSRM~580-64088/22	3005A, FIELD_FLTRD, 6020		50 mL	50 mL	1 mL	1 mL	1 mL	1 mL

Metals Worksheet

Batch Number: 580-64088
Method: 3005A
Analyst: Boritz, Ben A

Date Open: May 21 2010 12:18PM
Batch End: May 21 2010 4:18PM

Lab ID	Client ID	Method Chain	Basis	MS-HgSpk_00008
580-19403-A-1	09HMMW	3005A, FIELD_FLTRD, 6020	D	
580-19403-A-1~DU	09HMMW	3005A, FIELD_FLTRD, 6020	D	
580-19403-A-1~MS	09HMMW	3005A, FIELD_FLTRD, 6020	D	1 mL
580-19403-A-1~MSD	09HMMW	3005A, FIELD_FLTRD, 6020	D	1 mL
580-19403-A-2	01CMMW	3005A, FIELD_FLTRD, 6020	D	
580-19403-A-3	03CMMW	3005A, FIELD_FLTRD, 6020	D	
580-19403-A-4	07CMMW	3005A, FIELD_FLTRD, 6020	D	
580-19403-A-9	01SMMW	3005A, FIELD_FLTRD, 6020	D	
580-19403-A-10	04SMMW	3005A, FIELD_FLTRD, 6020	D	
580-19403-A-11	06SMMW	3005A, FIELD_FLTRD, 6020	D	
580-19403-A-12	07SMMW	3005A, FIELD_FLTRD, 6020	D	
580-19403-A-13	09SMMW	3005A, FIELD_FLTRD, 6020	D	
580-19403-A-14	01HMMW	3005A, FIELD_FLTRD, 6020	D	
580-19403-A-15	03HMSW	3005A, FIELD_FLTRD, 6020	D	
580-19403-A-16	04HMMW	3005A, FIELD_FLTRD, 6020	D	
580-19403-A-17	06HMMW	3005A, FIELD_FLTRD, 6020	D	

Metals Worksheet

Batch Number: 580-64088

Method: 3005A

Analyst: Boritz, Ben A

Date Open: May 21 2010 12:18PM

Batch End: May 21 2010 4:18PM

580-19305-A-1-A		D	
MB~580-63971/1-A	3005A, FIELD_FLTRD, 6020		
MB~580-64088/19	3005A, FIELD_FLTRD, 6020		
LCS~580-64088/20	3005A, FIELD_FLTRD, 6020		1 mL
LCSD~580-64088/21	3005A, FIELD_FLTRD, 6020		1 mL
LCSSRM~580-64088/22	3005A, FIELD_FLTRD, 6020		1 mL

Digestion Tube/Cup Lot #:	100121
Hot Block ID number:	38009
Hood ID or number:	100121
Lot # of Nitric Acid:	H02036
Lot # of hydrochloric acid:	G39A12

Metals Worksheet

Batch Number: 580-64211
Method: 7471A
Analyst: Boritz, Ben A

Date Open: May 24 2010 1:45PM
Batch End: May 24 2010 3:00PM

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
580-19329-A-1			T	0.5603 g	0.6809 g	50 mL		
580-19329-A-1~DU			T		0.6322 g	50 mL		
580-19329-A-1~MS			T		0.9347 g	50 mL	1 mL	
580-19329-A-1~MSD			T		0.6327 g	50 mL	1 mL	
580-19329-A-2			T	0.5159 g	0.6404 g	50 mL		
580-19329-A-3			T	0.5275 g	0.5838 g	50 mL		
580-19329-A-4			T	0.6465 g	0.5620 g	50 mL		
580-19329-A-5			T	0.5132 g	0.6301 g	50 mL		
580-19329-A-6			T	0.5866 g	0.7812 g	50 mL		
580-19329-A-7			T	0.5138 g	0.5704 g	50 mL		
580-19329-A-8			T	0.52 g	0.5575 g	50 mL		
580-19329-A-9			T	5.3837 g	0.9560 g	50 mL		
580-19403-A-18	18SMSS	7471A, 7471A	T		0.8791 g	50 mL		
580-19403-A-19	COMPHMRT	7471A, 7471A	T		0.5343 g	50 mL		
580-19403-A-20	01HMRT	7471A, 7471A	T		0.6009 g	50 mL		
580-19403-B-21	01HMBG		T		0.5293 g	50 mL		
580-19403-A-22	04SMSS	7471A, 7471A	T		0.5719 g	50 mL		
580-19403-A-23	05SMSS	7471A, 7471A	T		0.6308 g	50 mL		
580-19403-A-24	06SMSS	7471A, 7471A	T		0.5106 g	50 mL		
580-19403-A-25	07SMSS	7471A, 7471A	T		0.5630 g	50 mL		
580-19403-A-26	08SMSS	7471A, 7471A	T		0.6561 g	50 mL		
580-19403-A-27	09SMSS	7471A, 7471A	T		0.5170 g	50 mL		
MB~580-64211/23		7471A, 7471A			0.5 g	50 mL		
LCS~580-64211/24		7471A, 7471A			0.5 g	50 mL	1 mL	
LCSD~580-64211/25		7471A, 7471A			0.5 g	50 mL	1 mL	

Metals Worksheet

Batch Number: 580-64211
Method: 7471A
Analyst: Boritz, Ben A

Date Open: May 24 2010 1:45PM
Batch End: May 24 2010 3:00PM

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_0000 2	SRMsolid_00004
LCSSRM~580-6421 1/26		7471A, 7471A			0.0972 g	50 mL		0.0972 g

Nominal Amount Used:	0.5 g
Digestion Tube/Cup Lot #:	100121
Hot Block ID number:	38008
Hood ID or number:	06
Balance ID:	SEA211
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
Stannous Chloride Lot Number:	076262
Oven, Bath or Block Temperature 1:	94
NaCL Lot #:	080787
Hydroxylamine Hydrochloride Lot:	094946

Metals Worksheet

Batch Number: 580-64624
Method: 3050B
Analyst: Mattison, Adam

Date Open: May 28 2010 1:49PM
Batch End:

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_00015
580-19401-A-33			T	1.0085 g	50 mL				
580-19401-A-33~DU			T	1.0360 g	50 mL				
580-19401-A-33~MS			T	1.0555 g	50 mL	1 mL	1 mL	1 mL	1 mL
580-19401-A-33~MSD			T	1.1226 g	50 mL	1 mL	1 mL	1 mL	1 mL
580-19401-A-34			T	1.0169 g	50 mL				
580-19401-A-35			T	1.0255 g	50 mL				
580-19401-A-36			T	1.0699 g	50 mL				
580-19403-C-5	01HMSD	3050B, 6020	T	1.0694 g	50 mL				
580-19403-C-6	02HMSD	3050B, 6020	T	1.1235 g	50 mL				
580-19403-C-7	03HMSD	3050B, 6020	T	1.1869 g	50 mL				
580-19403-B-8	03CSBG	3050B, 6020	T	1.0042 g	50 mL				
580-19403-A-18	18SMSS	3050B, 6020	T	1.1039 g	50 mL				
580-19403-A-19	COMPHMRT	3050B, 6020	T	1.1125 g	50 mL				
580-19403-A-20	01HMRT	3050B, 6020	T	1.1017 g	50 mL				
580-19403-B-21	01HMBG	3050B, 6020	T	1.0355 g	50 mL				
580-19403-A-22	04SMSS	3050B, 6020	T	1.0721 g	50 mL				
580-19403-A-23	05SMSS	3050B, 6020	T	1.0136 g	50 mL				
580-19403-A-24	06SMSS	3050B, 6020	T	1.1777 g	50 mL				
580-19403-A-25	07SMSS	3050B, 6020	T	1.0387 g	50 mL				
580-19403-A-26	08SMSS	3050B, 6020	T	1.1105 g	50 mL				
MB~580-64624/21		3050B, 6020		1.0 g	50 mL				
LCS~580-64624/22		3050B, 6020		1.0 g	50 mL	1 mL	1 mL	1 mL	1 mL
LCSD~580-64624/23		3050B, 6020		1.0 g	50 mL	1 mL	1 mL	1 mL	1 mL
LCSSRM~580-64624/24		3050B, 6020		0.5171 g	50 mL				
580-19403-A-27	09SMSS	3050B, 6020	T	1.0684 g	50 mL				

Metals Worksheet

Batch Number: 580-64624
Method: 3050B
Analyst: Mattison, Adam

Date Open: May 28 2010 1:49PM
Batch End:

Lab ID	Client ID	Method Chain	Basis	MS-HgSpk_00008	SRMsolid_00004
580-19401-A-33			T		
580-19401-A-33~DU			T		
580-19401-A-33~MS			T	1 mL	
580-19401-A-33~MSD			T	1 mL	
580-19401-A-34			T		
580-19401-A-35			T		
580-19401-A-36			T		
580-19403-C-5	01HMSD	3050B, 6020	T		
580-19403-C-6	02HMSD	3050B, 6020	T		
580-19403-C-7	03HMSD	3050B, 6020	T		
580-19403-B-8	03CSBG	3050B, 6020	T		
580-19403-A-18	18SMSS	3050B, 6020	T		
580-19403-A-19	COMPHMRT	3050B, 6020	T		
580-19403-A-20	01HMRT	3050B, 6020	T		
580-19403-B-21	01HMBG	3050B, 6020	T		
580-19403-A-22	04SMSS	3050B, 6020	T		
580-19403-A-23	05SMSS	3050B, 6020	T		
580-19403-A-24	06SMSS	3050B, 6020	T		
580-19403-A-25	07SMSS	3050B, 6020	T		
580-19403-A-26	08SMSS	3050B, 6020	T		
MB~580-64624/21		3050B, 6020			
LCS~580-64624/22		3050B, 6020		1 mL	
LCSD~580-64624/23		3050B, 6020		1 mL	
LCSSRM~580-64624/24		3050B, 6020			0.5171 g
580-19403-A-27	09SMSS	3050B, 6020	T		

Digestion Tube/Cup Lot #:	100121	Temperature:	94.9 Degrees C
Balance ID:	SEA204	Pipette ID:	mp1
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		

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job Number: 580-19403-1

SDG No.:

Project: Contact and Sonoma Mine Sites

Client Sample ID	Lab Sample ID
01HMSD	580-19403-5
02HMSD	580-19403-6
03HMSD	580-19403-7
03CSBG	580-19403-8
18SMSS	580-19403-18
COMPHMRT	580-19403-19
01HMRT	580-19403-20
01HMBG	580-19403-21
04SMSS	580-19403-22
05SMSS	580-19403-23
06SMSS	580-19403-24
07SMSS	580-19403-25
08SMSS	580-19403-26
09SMSS	580-19403-27

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job Number: 580-19403-1

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.: 580-19403-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 05/21/2010 12:59 End Date: 05/24/2010 13:59

Lab Sample ID	D/F	Type	Time	Analytes																			
				% Sol	Moist																		
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
580-19403-7	1	T	12:59	X	X																		
580-19403-8	1	T	12:59	X	X																		
580-19403-18	1	T	12:59	X	X																		
580-19403-19	1	T	12:59	X	X																		
580-19403-20	1	T	12:59	X	X																		
580-19403-21	1	T	12:59	X	X																		
580-19403-22	1	T	12:59	X	X																		
580-19403-23	1	T	12:59	X	X																		
580-19403-24	1	T	12:59	X	X																		
580-19403-25	1	T	12:59	X	X																		
580-19403-26	1	T	12:59	X	X																		
580-19403-27	1	T	12:59	X	X																		
580-19403-27 DU	1	T	12:59	X	X																		
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
ZZZZZZ			12:59																				
ZZZZZZ			13:59																				

Prep Types
T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Tacoma Job No.: 580-19403-1

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																				
580-19403-5	1	T	14:22	X	X																		
580-19403-5 DU	1	T	14:22	X	X																		
580-19403-6	1	T	14:22	X	X																		
ZZZZZZ			14:22																				

Prep Types
T = Total/NA

General Chemistry Worksheet

Batch Number: 580-64098
Method: Moisture
Analyst: Teffeau, Kristine

Date Open: May 21 2010 12:59PM
Batch End: May 21 2010 6:50PM

Lab ID	Client ID	Method Chain	Basis	Empty Dish Weight	Mass of wet Sample	Mass of Dry Sample
580-19431-A-1			T	0.7849 g	6.5332 g	6.1889 g
580-19386-A-1			T	0.7756 g	12.2548 g	10.1225 g
580-19403-C-7	03HMSD	Moisture	T	0.7931 g	12.7777 g	10.2736 g
580-19403-B-8	03CSBG	Moisture	T	0.7780 g	11.4402 g	11.1206 g
580-19403-A-18	18SMSS	Moisture	T	0.8005 g	7.4361 g	6.4276 g
580-19403-A-19	COMPHMRT	Moisture	T	0.7747 g	5.5145 g	4.4787 g
580-19403-A-20	01HMRT	Moisture	T	0.7879 g	3.4615 g	2.7891 g
580-19403-B-21	01HMBG	Moisture	T	0.7866 g	4.5526 g	3.8276 g
580-19403-A-22	04SMSS	Moisture	T	0.8072 g	5.6102 g	5.0124 g
580-19403-A-23	05SMSS	Moisture	T	0.7886 g	6.2046 g	5.6463 g
580-19403-A-24	06SMSS	Moisture	T	0.7901 g	5.3572 g	4.6144 g
580-19403-A-25	07SMSS	Moisture	T	0.7953 g	8.5005 g	8.0824 g
580-19403-A-26	08SMSS	Moisture	T	0.7956 g	7.8038 g	7.0045 g
580-19403-A-27	09SMSS	Moisture	T	0.8062 g	6.9236 g	6.3770 g
580-19403-A-27~DU	09SMSS	Moisture	T	0.7844 g	6.9065 g	6.4261 g
580-19401-A-22			T	0.7834 g	9.7155 g	8.5961 g
580-19401-A-23			T	0.8028 g	6.8408 g	5.8305 g
580-19401-A-24			T	0.7858 g	8.0368 g	6.6521 g
580-19401-A-25			T	0.7865 g	7.7838 g	6.1490 g
580-19401-A-26			T	0.7809 g	6.4389 g	5.1409 g
580-19401-A-21			T	0.7700 g	9.0550 g	7.5927 g

Balance ID:	sea207 No Unit
Date samples were place in the oven:	5/21/10
Time samples were place in the oven:	1410
Oven Temp when samples are put in oven:	102.5 Degrees C
Date samples were removed from oven:	5/24/10
Time Samples were removed from oven:	1842
Oven Temp when samples removed from oven:	101.5 Degrees C
Oven ID:	sea302
ID number of the thermometer:	3a4824

General Chemistry Worksheet

Batch Number: 580-64098
Method: Moisture
Analyst: Teffeau, Kristine

Date Open: May 21 2010 12:59PM
Batch End: May 21 2010 6:50PM

Comments

Lab ID	Client ID	Method Chain	Basis	Analysis comment
580-19431-A-1			T	
580-19386-A-1			T	
580-19403-C-7	03HMSD	Moisture	T	
580-19403-B-8	03CSBG	Moisture	T	
580-19403-A-18	18SMSS	Moisture	T	
580-19403-A-19	COMPHMRT	Moisture	T	
580-19403-A-20	01HMRT	Moisture	T	
580-19403-B-21	01HMBG	Moisture	T	
580-19403-A-22	04SMSS	Moisture	T	
580-19403-A-23	05SMSS	Moisture	T	
580-19403-A-24	06SMSS	Moisture	T	
580-19403-A-25	07SMSS	Moisture	T	
580-19403-A-26	08SMSS	Moisture	T	
580-19403-A-27	09SMSS	Moisture	T	
580-19403-A-27~DU	09SMSS	Moisture	T	
580-19401-A-22			T	
580-19401-A-23			T	
580-19401-A-24			T	
580-19401-A-25			T	
580-19401-A-26			T	
580-19401-A-21			T	

Batch Comment: only empty pans weighed on 5/21, all else done 5/24/10

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	01HMSD	Moisture	T	0.7816 g	11.1923 g	5.2692 g
580-19403-C-5~DU	01HMSD	Moisture	T	0.7760 g	9.3686 g	4.5921 g
580-19403-C-6	02HMSD	Moisture	T	0.7851 g	18.8121 g	16.8251 g
580-19393-A-18			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

Subcontract Data

ANALYTICAL REPORT

PROJECT NO. 580-19403-1

580-19403 Contact-Sonoma Mine

Lot #: A0E210615

Terri Torres

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424

TESTAMERICA LABORATORIES, INC.

Approved for release.
Kris Brooks
Project Manager
6/3/2010 6:03 PM

Kris M. Brooks
Project Manager
kris.brooks@testamericainc.com

June 03, 2010

Table of Contents

Case Narrative 2
Executive Summary 7
Analytical Method Summary 10
Sample Summary 12
Shipping and Receiving Documents 14
GC Volatile Data 19
- QC Summary Data 20
- Sample Data 36
- Standard Data 85
- Raw QC Data 157
- Miscellaneous Data 181

Inorganic/Metals Data 202
- Forms Data 203
- Low Level Mercury Data 276
- Instrument Printouts 319
- Miscellaneous Data 328

General Chemistry Data 335
- Sample Data 336
- Supportive Raw Data 345

Total # of Pages in this Document 348

CASE NARRATIVE

CASE NARRATIVE

A0E210615

The following report contains the analytical results for five solid samples and thirteen water samples submitted to TestAmerica North Canton by TestAmerica Seattle from the 580-19403 Contact-Sonoma Mine Site, project number 580-19403-1. The samples were received May 21, 2010, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Terri Torres on June 02, 2010. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Kris M. Brooks, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 2.7°C.

GC VOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for batch(es) 0149021 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The client specific or regulatory program requirements stated that corrective action must be performed for surrogate recoveries outside criteria. The re-preparation and reanalysis also had surrogate recoveries outside criteria confirming probable matrix interference; therefore, the original data are contained in the report for samples 09HMMW.

The client specific or regulatory program requirements stated that corrective action must be performed for surrogate recoveries outside criteria. The re-preparation and re-analysis also had surrogate recoveries outside criteria confirming probable matrix interference. The data with better surrogate recovery are contained in the report for samples 01HMSD

METALS

The following samples could not be analyzed by method 1631E, due to the concentrations of Mercury in the samples, 01HMSD, 02HMSD, 03HMSD, 03CSBG and 01HMBG. Method 7171A was performed.

The matrix spike/matrix spike duplicate(s) for batch(es) 0147253 had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

This reports is being submitted without the MS/MSD that is associated with batch 0147015 .The associated MS/MSD is not client specific and therefore has no significant effect on the reported results.

GENERAL CHEMISTRY

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190),NAVY, ARMY, USDA Soil Permit

N:\QAQC\Customer Service\Narrative - Combined RCRA _CWA 032609.doc

EXECUTIVE SUMMARY

EXECUTIVE SUMMARY - Detection Highlights

A0E210615

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
09HMMW 05/16/10 11:15 001				
Mercury	188	10.0	ng/L	CFR136A 1631E
01CMMW 05/15/10 13:50 002				
Mercury	4.2	0.50	ng/L	CFR136A 1631E
03CMMW 05/16/10 16:25 003				
Mercury	8.7	0.50	ng/L	CFR136A 1631E
07CMMW 05/16/10 15:45 004				
Methyl Mercury	0.015 J	0.025	ng/L	CFR136A 1630
Mercury	8.6	0.50	ng/L	CFR136A 1631E
01HMSD 05/04/10 13:00 005				
Mercury	1.2	0.32	mg/kg	SW846 7471A
Percent Solids	31.6	10.0	%	MCAWW 160.3 MOD
02HMSD 05/04/10 15:45 006				
Methyl Mercury	0.18	0.11	ug/kg	CFR136A 1630
Mercury	53.6	5.4	mg/kg	SW846 7471A
Percent Solids	92.8	10.0	%	MCAWW 160.3 MOD
03HMSD 05/07/10 13:39 007				
Methyl Mercury	0.046 J	0.062	ug/kg	CFR136A 1630
Mercury	0.15	0.12	mg/kg	SW846 7471A
Percent Solids	80.1	10.0	%	MCAWW 160.3 MOD
03CSBG 05/16/10 15:10 008				
Mercury	0.11	0.10	mg/kg	SW846 7471A
Percent Solids	96.8	10.0	%	MCAWW 160.3 MOD
01SMMW 05/15/10 12:00 009				
Methyl Mercury	0.14	0.050	ng/L	CFR136A 1630
Mercury	240	20.0	ng/L	CFR136A 1631E

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A0E210615

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
04SMMW 05/14/10 18:45 010				
Methyl Mercury	0.063	0.050	ng/L	CFR136A 1630
Mercury	75.6	2.5	ng/L	CFR136A 1631E
06SMMW 05/14/10 16:55 011				
Methyl Mercury	0.066	0.050	ng/L	CFR136A 1630
Mercury	63.4	2.5	ng/L	CFR136A 1631E
07SMMW 05/14/10 14:20 012				
Methyl Mercury	0.018 J	0.025	ng/L	CFR136A 1630
Mercury	51.8	2.5	ng/L	CFR136A 1631E
09SMMW 05/14/10 13:30 013				
Methyl Mercury	0.26	0.050	ng/L	CFR136A 1630
Mercury	77.8	2.5	ng/L	CFR136A 1631E
01HMMW 05/16/10 08:00 014				
Methyl Mercury	0.029	0.025	ng/L	CFR136A 1630
Mercury	20.6	0.50	ng/L	CFR136A 1631E
03HMSW 05/16/10 08:30 015				
Methyl Mercury	0.042	0.025	ng/L	CFR136A 1630
Mercury	9.6	0.50	ng/L	CFR136A 1631E
04HMMW 05/16/10 10:00 016				
Methyl Mercury	0.074	0.050	ng/L	CFR136A 1630
Mercury	95.9	2.5	ng/L	CFR136A 1631E
06HMMW 05/16/10 12:00 017				
Methyl Mercury	0.030	0.025	ng/L	CFR136A 1630
Mercury	19.9	0.50	ng/L	CFR136A 1631E
01HMBG 05/07/10 08:25 018				
Mercury	83.4	13.5	mg/kg	SW846 7471A
Percent Solids	74.2	10.0	%	MCAWW 160.3 MOD

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A0E210615

PARAMETER	ANALYTICAL METHOD
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Mercury, Low Level Mercury, CVA Fluorescence	CFR136A 1631E
Methyl Mercury Methyl Mercury, P&T GCAFD	CFR136A 1630
Total Residue as Percent Solids	MCAWW 160.3 MOD

References:

CFR136A "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A0E210615

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
L1XLH	001	09HMMW	05/16/10	11:15
L1XLJ	002	01CMMW	05/15/10	13:50
L1XLK	003	03CMMW	05/16/10	16:25
L1XLL	004	07CMMW	05/16/10	15:45
L1XLM	005	01HMSD	05/04/10	13:00
L1XLN	006	02HMSD	05/04/10	15:45
L1XLP	007	03HMSD	05/07/10	13:39
L1XLQ	008	03CSBG	05/16/10	15:10
L1XLT	009	01SMMW	05/15/10	12:00
L1XLV	010	04SMMW	05/14/10	18:45
L1XLW	011	06SMMW	05/14/10	16:55
L1XLX	012	07SMMW	05/14/10	14:20
L1XL0	013	09SMMW	05/14/10	13:30
L1XL1	014	01HMMW	05/16/10	08:00
L1XL2	015	03HMSW	05/16/10	08:30
L1XL3	016	04HMMW	05/16/10	10:00
L1XL5	017	06HMMW	05/16/10	12:00
L1XL6	018	01HMBG	05/07/10	08:25

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

SHIPPING
AND
RECEIVING DOCUMENTS

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Torres, Terri L	Carrier Tracking No(s):	COC No: 580-3461.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: terri.torres@testamericainc.com		Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.				Job #: 580-19403-1
Address: 4101 Shuffel Street NW,	Due Date Requested: 5/28/2010			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: Contact and Sonoma Mine Sites	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, D - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

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)	SUBCONTRACT/ Methyl Mercury	SUBCONTRACT/ Low Level Mercury	SUBCONTRACT/ Low Level Hg	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
09HMMW	5/16/10	11:15 Pacific		Water			X	X		4	
01CMMW	5/15/10	13:50 Pacific		Water			X	X		4	
03CMMW	5/16/10	16:25 Pacific		Water			X	X		4	
07CMMW	5/16/10	15:45 Pacific		Water			X	X		4	
01HMSD	5/4/10	13:00 Pacific		Solid			X		X	2	
02HMSD	5/4/10	15:45 Pacific		Solid			X		X	2	
03HMSD	5/7/10	13:39 Pacific		Solid			X		X	2	
03CSBG	5/16/10	15:10 Pacific		Solid					X	1	
01SMMW	5/15/10	12:00 Pacific		Water			X	X		4	
04SMMW	5/14/10	18:45 Pacific		Water			X	X		4	
06SMMW	5/14/10	16:55 Pacific		Water			X	X		4	

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: Tom Blanton	Date/Time: 5/20/10 1425	Company: TA-Sea	Received by: Matthew Ferri	Date/Time: 21 May 2010 0915	Company: TestAmerica
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
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:		

TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310 Fax (253) 922-5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Torres, Terri L	Carrier Tracking No(s):	COC No: 580-3461.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: terri.torres@testamericainc.com		Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.				Job #: 580-19403-1
Address: 4101 Shuffel Street NW, ,	Due Date Requested: 5/28/2010			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: Contact and Sonoma Mine Sites	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:

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)	SUBCONTRACT/ Methyl Mercury	SUBCONTRACT/ Low Level Mercury	SUBCONTRACT/ Low Level Hg	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
07SMMW	5/14/10	14:20 Pacific		Water			X	X		4	
09SMMW	5/14/10	13:30 Pacific		Water			X	X		4	
01HMMW	5/16/10	08:00 Pacific		Water			X	X		4	
03HMSW	5/16/10	08:30 Pacific		Water			X	X		4	
04HMMW	5/16/10	10:00 Pacific		Water			X	X		4	
06HMMW	5/16/10	12:00 Pacific		Water			X	X		4	
01HMBG	5/7/10	08:25 Pacific		Solid					X	1	

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: Tom Blankenship	Date/Time: 5/20/10 1425	Company: TA-Sea	Received by: Matthew Jenner	Date/Time: 21 May 2010 0915	Company: TESTAMERICA
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
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:

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 40E21095
North Canton Facility

Client SEATTLE Project CONTRACT SONOMA MINES By: Matthew [illegible]
Cooler Received on 21 MAY 2010 Opened on 21 MAY 2010 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ____
TestAmerica Cooler # ____ Multiple Coolers ☐ Foam Box ☐ Client Cooler ☒ Other ____

1. Were custody seals on the outside of the cooler(s)? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 1 Quantity Unsalvageable ____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☒ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? ____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other PLASTIC BAG
6. Cooler temperature upon receipt 2.7 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ ____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM ____ Date ____ by ____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning ____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot# 121709-HNO_3; Sulfuric Acid Lot# 121709-H_2SO_4; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-$(CH_3COO)_2ZN/NaOH$.* What time was preservative added to sample(s)? ____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant

Discrepancies Cont'd:

GC VOLATILE DATA

QC SUMMARY DATA

CFR136A 1630 SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: TestAmerica Seattle

Lab Code: TALCAN SDG No:

Lot #: A0E210615

Extraction: XXAUSE&01

	CLIENT ID.	SRG01	TOT OUT
01	INTRA-LAB QC	74	00
02	INTRA-LAB QC RE-1	8.4*	01
03	01HMSD RE-1	14 *	01
04	02HMSD	88	00
05	03HMSD	76	00
06	INTRA-LAB QC	83	00
07	METHOD BLK. L12821AA	76	00
08	METHOD BLK. L19HL1AA	108	00
09	LCS L12821AC	92	00
10	LCS L19HL1AC	109	00
11	LAB MS/MSD D	84	00
12	LAB MS/MSD D	5.7*	01
13	LAB MS/MSD D	72	00
14	LAB MS/MSD S	82	00
15	LAB MS/MSD S	12 *	01
16	LAB MS/MSD S	73	00

SURROGATES	QC LIMITS
SRG01 = n-Propyl Mercury	(30-127)

Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

CFR136A 1630 SURROGATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: TestAmerica Seattle

Lab Code: TALCAN SDG No:

Lot #: A0E210615

Extraction: XXINYE&01

	CLIENT ID.	SRG01	TOT OUT
01	09HMMW	33 *	01
02	01CMMW	54	00
03	03CMMW	64	00
04	07CMMW	67	00
05	01SMMW	68	00
06	04SMMW	73	00
07	06SMMW	68	00
08	07SMMW	70	00
09	09SMMW	58	00
10	01HMMW	78	00
11	03HMSW	77	00
12	04HMMW	76	00
13	06HMMW	76	00
14	METHOD BLK. L19G91AA	92	00
15	LCS L19G91AC	101	00
16	LCSD L19G91AD	93	00

SURROGATES	QC LIMITS
SRG01 = n-Propyl Mercury	(50-150)

Column to be used to flag recovery values
* Values outside of required QC Limits
D System monitoring Compound diluted out

FORM II

CFR136A 1630 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: TestAmerica Seattle

Lab Code: TALCAN SDG No:

Lot #: A0E260000 WO #: L12821AC
BATCH: 0146087

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Methyl Mercury	1.0	1.0	105	40- 145	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

COMMENTS:

FORM III

CFR136A 1630 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: TestAmerica Seattle

Lab Code: TALCAN SDG No:

Lot #: A0E290000 WO #: L19G91AC
BATCH: 0149019

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENT. (ng/L)	% REC	QC LIMITS REC	QUAL
Methyl Mercury	0.50	0.48	96	67- 133	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

COMMENTS:

FORM III

CFR136A 1630 CHECK SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: TestAmerica Seattle

Lab Code: TALCAN SDG No:

Lot #: A0E290000 WO #: L19G91AD
BATCH: 0149019

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENT. (ng/L)	% REC	QC LIMITS REC	QUAL
Methyl Mercury	0.50	0.48	95	67- 133	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

COMMENTS:

FORM III

CFR136A 1630 CHECK SAMPLE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: TestAmerica Seattle

Lab Code: TALCAN SDG No:

Lot #: A0E290000 WO #: L19HL1AC
BATCH: 0149021

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	% REC	QC LIMITS REC	QUAL
Methyl Mercury	1.0	1.2	125	40- 145	

NOTES(S):

* Values outside of QC limits

Spike Recovery: 0 out of 1 outside limits

COMMENTS:

FORM III

CFR136A 1630 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: TestAmerica Seattle

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: G0E130537 WO #: L1GFJ1AC
BATCH: 0146087

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Methyl Mercury	1.0	0.26	1.4	112	40- 145	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 1 outside limits

COMMENTS:

FORM III

CFR136A 1630 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: TestAmerica Seattle

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: G0E130537 WO #: L1GFJ1AD
BATCH: 0146087

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Methyl Mercury	0.99	1.3	107	6.1	35	40- 145	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 1 outside limits

COMMENTS:

FORM III

CFR136A 1630 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: TestAmerica Seattle

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: G0E140589 WO #: L1J2C1AX
BATCH: 0149021

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Methyl Mercury	1.2	ND	0.50	41	40- 145	

NOTES(S):

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 1 outside limits

COMMENTS:

FORM III

CFR136A 1630 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: TestAmerica Seattle

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: G0E140589 WO #: L1J2C1A0
BATCH: 0149021

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Methyl Mercury	1.2	0.40	32*	24	35	40- 145	a

NOTES(S):

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 1 out of 1 outside limits

COMMENTS:

FORM III

CFR136A 1630 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: TestAmerica Seattle

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: A0E250528 WO #: L12NQ1AD
BATCH: 0146087

COMPOUND	SPIKE ADDED (ug/kg)	SAMPLE CONCENT. (ug/kg)	MS CONCENT. (ug/kg)	MS % REC	LIMITS REC	QUAL
Methyl Mercury	1.0	0.090	1.3	115	40- 145	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 1 outside limits

COMMENTS:

FORM III

CFR136A 1630 MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Laboratories, Inc. Client: TestAmerica Seattle

Lab Code: TALCAN SDG No:

Matrix Spike ID: LAB MS/MSD Level:(low/med) LOW

Lot #: A0E250528 WO #: L12NQ1AE
BATCH: 0146087

COMPOUND	SPIKE ADDED (ug/kg)	MSD CONCENT. (ug/kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	QUAL
Methyl Mercury	0.96	1.3	125	1.6	35	40- 145	

NOTES(S):

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

RPD: 0 out of 1 outside limits
Spike Recovery: 0 out of 1 outside limits

COMMENTS:

FORM III

BLANK WORKORDER NO.

L12821AA

CFR136A 1630 METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: NF052736.

Lot Number: A0E210615

Date Analyzed: 05/28/10

Time Analyzed: 06:34

Matrix: SOLID

Date Extracted:05/26/10

GC Column: DB-1 ID: .53

Extraction Method:

Instrument ID: N

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	INTRA-LAB QC	L1GFJ1AA	NF052770.	05/28/10	19:08
02	LAB MS/MSD	L1GFJ1AC S	NF052771.	05/28/10	19:29
03	LAB MS/MSD	L1GFJ1AD D	NF052772.	05/28/10	19:51
04	02HMSD	L1XLN1AD	NF052777.	05/28/10	21:39
05	03HMSD	L1XLP1AD	NF052778.	05/28/10	22:01
06	INTRA-LAB QC	L12NQ1AA	NF052779.	05/28/10	22:23
07	LAB MS/MSD	L12NQ1AD S	NF052780.	05/28/10	22:44
08	LAB MS/MSD	L12NQ1AE D	NF052781.	05/28/10	23:06
09	CHECK SAMPLE	L12821AC C	NF052737.	05/28/10	06:56
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

BLANK WORKORDER NO.

L19G91AA

CFR136A 1630 METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: NF052705.

Lot Number: A0E210615

Date Analyzed: 05/27/10

Time Analyzed: 19:18

Matrix: WATER

Date Extracted:05/27/10

GC Column: DB-1 ID: .53

Extraction Method:

Instrument ID: N

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	09HMMW	L1XLH1AA	NF052719.	05/28/10	00:24
02	01CMMW	L1XLJ1AA	NF052720.	05/28/10	00:46
03	03CMMW	L1XLK1AA	NF052721.	05/28/10	01:08
04	07CMMW	L1XLL1AA	NF052722.	05/28/10	01:30
05	01SMMW	L1XLT1AA	NF052769.	05/28/10	18:46
06	04SMMW	L1XLV1AA	NF052726.	05/28/10	02:57
07	06SMMW	L1XLW1AA	NF052727.	05/28/10	03:19
08	07SMMW	L1XLX1AA	NF052728.	05/28/10	03:40
09	09SMMW	L1XL01AA	NF052729.	05/28/10	04:02
10	01HMMW	L1XL11AA	NF052730.	05/28/10	04:24
11	03HMSW	L1XL21AA	NF052731.	05/28/10	04:45
12	04HMMW	L1XL31AA	NF052732.	05/28/10	05:07
13	06HMMW	L1XL51AA	NF052733.	05/28/10	05:29
14	CHECK SAMPLE	L19G91AC C	NF052706.	05/27/10	19:40
15	DUPLICATE CHECK	L19G91AD L	NF052707.	05/27/10	20:02
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

BLANK WORKORDER NO.

L19HL1AA

CFR136A 1630 METHOD BLANK SUMMARY

Lab Name: TestAmerica Laboratories, Inc.

Lab Code: TALCAN

SDG Number:

Lab File ID: NF060105.

Lot Number: A0E210615

Date Analyzed: 06/01/10

Time Analyzed: 12:33

Matrix: SOLID

Date Extracted:05/29/10

GC Column: DB-1 ID: .53

Extraction Method:

Instrument ID: N

Level:(low/med) LOW

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, LCS, LCSD, MS , MSD:

	CLIENT ID.	SAMPLE WORK ORDER #	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	LAB MS/MSD	L1J2C1AX S	NF060109.	06/01/10	14:00
02	LAB MS/MSD	L1J2C1A0 D	NF060110.	06/01/10	14:21
03	INTRA-LAB QC	L1J2C2AW	NF060107.	06/01/10	13:17
04	01HMSD	L1XLM2AD	NF060108.	06/01/10	13:38
05	CHECK SAMPLE	L19HL1AC C	NF060106.	06/01/10	12:55
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
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24					
25					
26					
27					
28					
29					
30					

COMMENTS:

FORM IV

SAMPLE DATA

TestAmerica Seattle

Client Sample ID: 09HMMW

GC Volatiles

Lot-Sample #...: A0E210615-001 **Work Order #...:** L1XLH1AA **Matrix.....:** WG
Date Sampled...: 05/16/10 11:15 **Date Received..:** 05/21/10
Prep Date.....: 05/27/10 **Analysis Date..:** 05/28/10
Prep Batch #...: 0149019
Dilution Factor: 1 **Initial Wgt/Vol:** 39 mL **Final Wgt/Vol..:** 39 mL
Method.....: CFR136A 1630

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methyl Mercury	ND	0.025	ng/L	0.010

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	33 *	(50 - 150)

NOTE(S):

* Surrogate recovery is outside stated control limits.

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052719.D
Lab Smp Id: L1XLH1AA Client Smp ID: 09HMMW
Inj Date : 28-MAY-2010 00:24
Operator : 402582 Inst ID: nhg.i
Smp Info : L1XLH1AA,,N00527,1,,,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ng/L)
1 Methyl Mercury	Compound Not Detected.					
$ 2 N-Propyl Mercury	3.876	3.873	0.003	5890119	0.16521	0.165(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052719.D

Page 1

Date : 28-MAY-2010 00:24

Client ID: 09HMMW

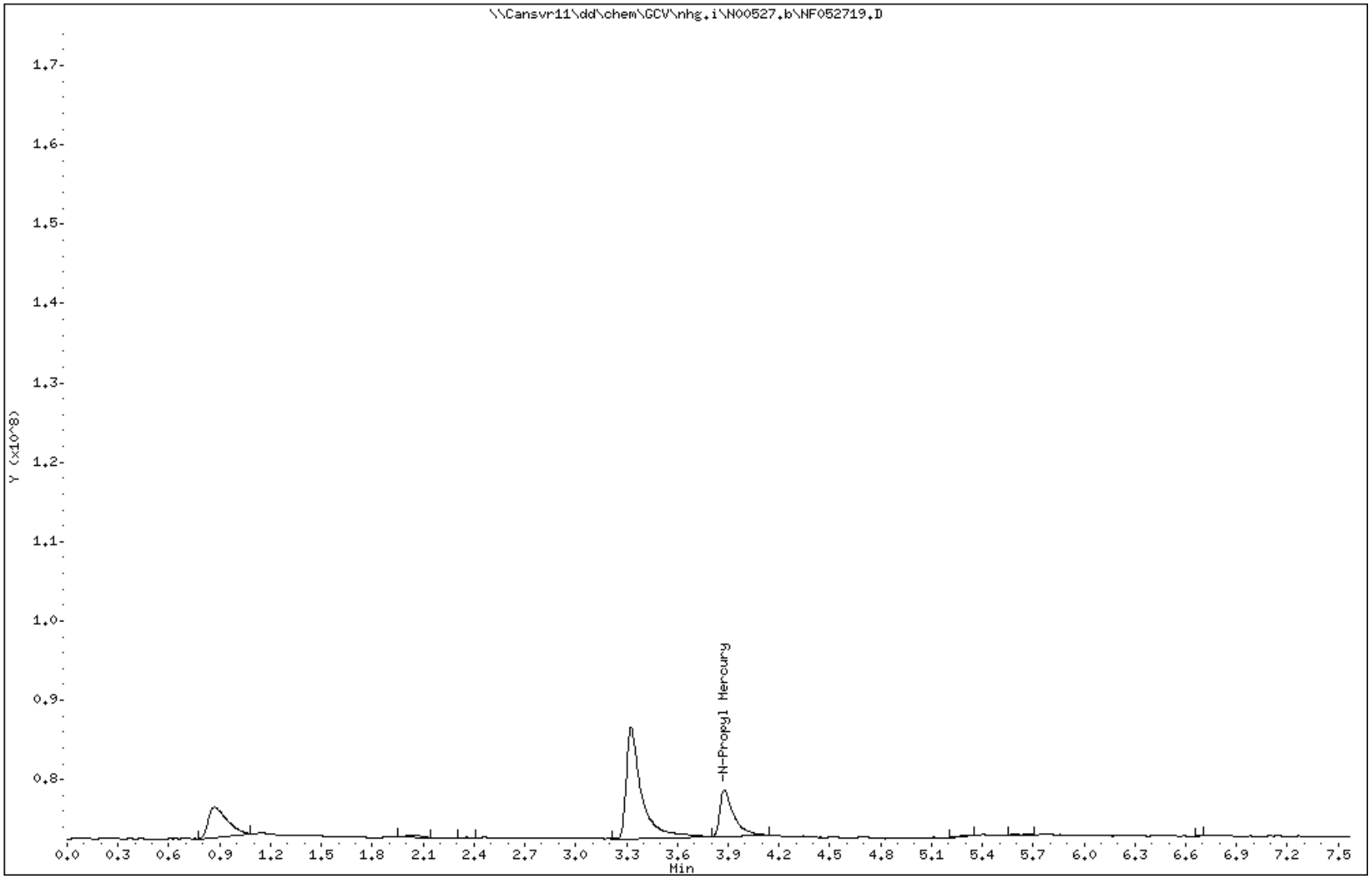
Instrument: nhg.i

Sample Info: L1XLH1AA,,N00527,1,,,,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica Seattle

Client Sample ID: 01CMMW

GC Volatiles

Lot-Sample #...: A0E210615-002 **Work Order #...:** L1XLJ1AA **Matrix.....:** WG
Date Sampled...: 05/15/10 13:50 **Date Received..:** 05/21/10
Prep Date.....: 05/27/10 **Analysis Date..:** 05/28/10
Prep Batch #...: 0149019
Dilution Factor: 1 **Initial Wgt/Vol:** 39 mL **Final Wgt/Vol..:** 39 mL
Method.....: CFR136A 1630

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methyl Mercury	ND	0.025	ng/L	0.010

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	54	(50 - 150)

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052720.D
Lab Smp Id: L1XLJ1AA Client Smp ID: 01CMMW
Inj Date : 28-MAY-2010 00:46
Operator : 402582 Inst ID: nhg.i
Smp Info : L1XLJ1AA,,N00527,1,,,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ng/L)
1 Methyl Mercury	Compound Not Detected.					
$ 2 N-Propyl Mercury	3.876	3.873	0.003	10253374	0.27243	0.272

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052720.D

Page 1

Date : 28-MAY-2010 00:46

Client ID: 01CMMW

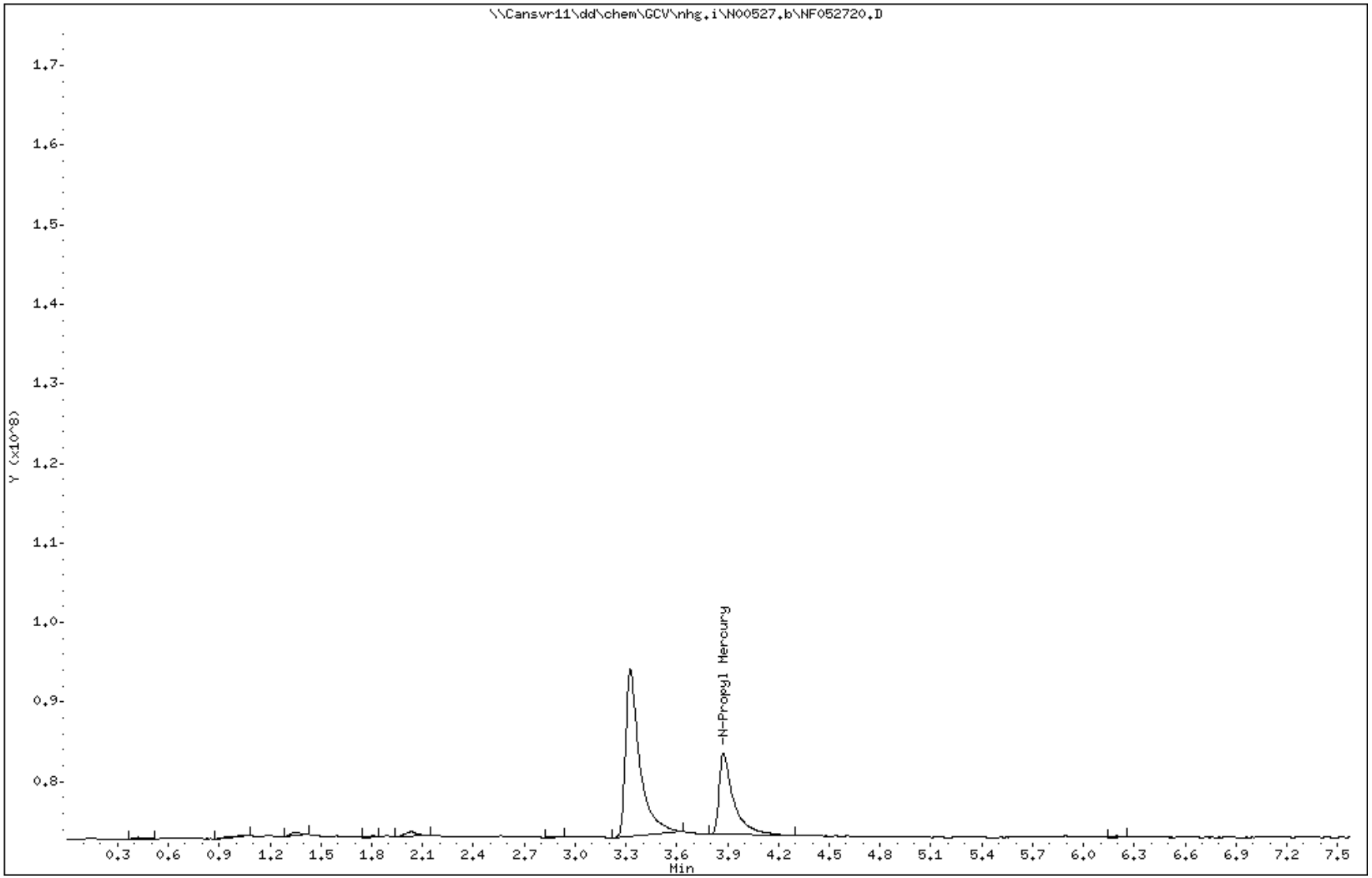
Instrument: nhg.i

Sample Info: L1XLJ1AA,,N00527,1,,,,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica Seattle

Client Sample ID: 03CMMW

GC Volatiles

Lot-Sample #...: A0E210615-003 **Work Order #...:** L1XLK1AA **Matrix.....:** WG
Date Sampled...: 05/16/10 16:25 **Date Received..:** 05/21/10
Prep Date.....: 05/27/10 **Analysis Date..:** 05/28/10
Prep Batch #...: 0149019
Dilution Factor: 1 **Initial Wgt/Vol:** 39 mL **Final Wgt/Vol..:** 39 mL
Method.....: CFR136A 1630

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methyl Mercury	ND	0.025	ng/L	0.010

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	64	(50 - 150)

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052721.D
Lab Smp Id: L1XLK1AA Client Smp ID: 03CMMW
Inj Date : 28-MAY-2010 01:08
Operator : 402582 Inst ID: nhg.i
Smp Info : L1XLK1AA,,N00527,1,,,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ng/L)
1 Methyl Mercury	2.036	2.020	0.016	754808	0.00630	0.006
$ 2 N-Propyl Mercury	3.876	3.873	0.003	12259141	0.32173	0.321

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052721.D

Page 1

Date : 28-MAY-2010 01:08

Client ID: 03CMMW

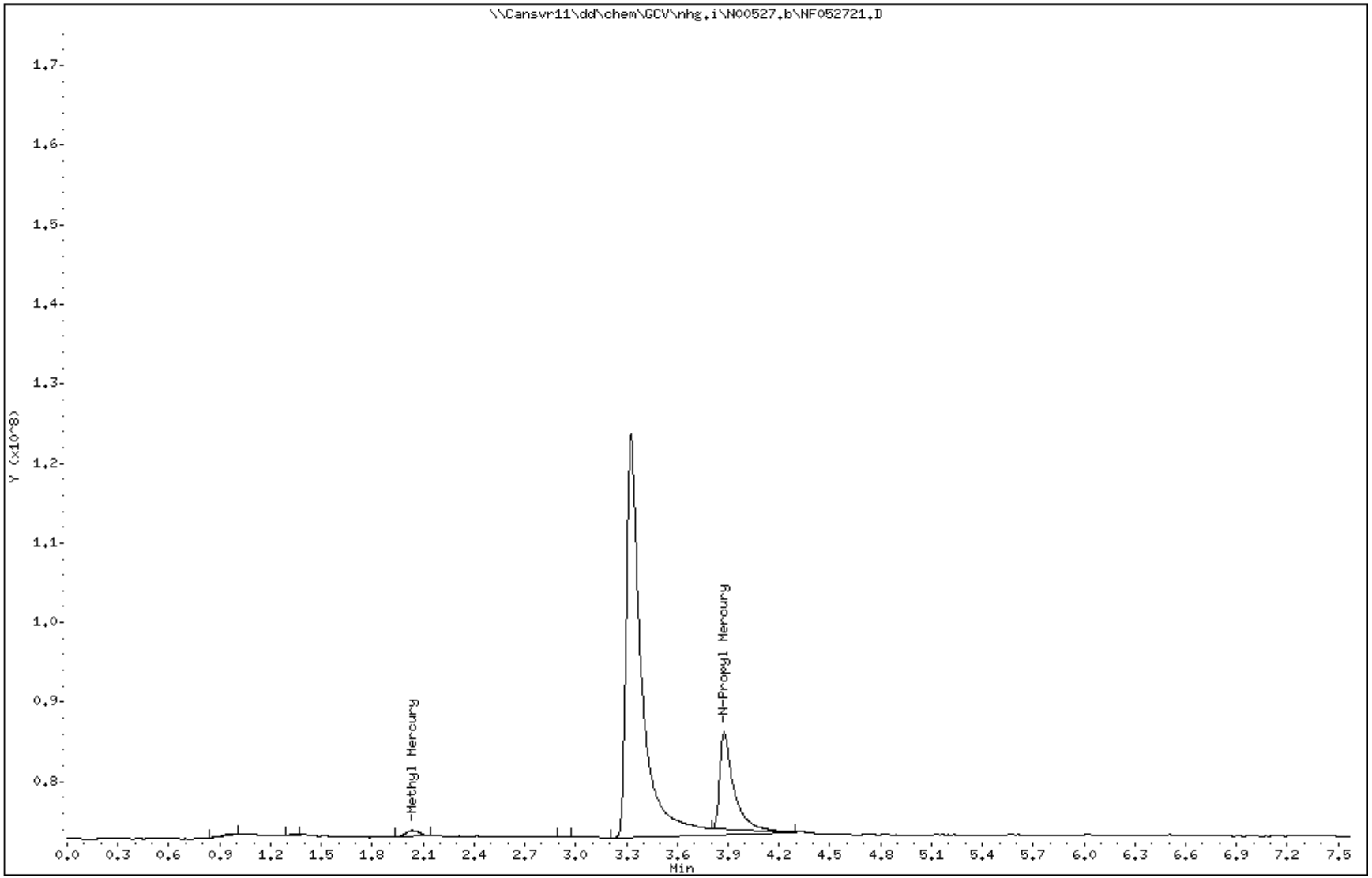
Instrument: nhg.i

Sample Info: L1XLK1AA,,N00527,1,,,,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica Seattle

Client Sample ID: 07CMMW

GC Volatiles

Lot-Sample #...: A0E210615-004 **Work Order #...:** L1XLL1AA **Matrix.....:** WG
Date Sampled...: 05/16/10 15:45 **Date Received..:** 05/21/10
Prep Date.....: 05/27/10 **Analysis Date..:** 05/28/10
Prep Batch #...: 0149019
Dilution Factor: 1 **Initial Wgt/Vol:** 39 mL **Final Wgt/Vol..:** 39 mL
Method.....: CFR136A 1630

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methyl Mercury	**0.015 J**	**0.025**	**ng/L**	**0.010**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	67	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052722.D
Lab Smp Id: L1XLL1AA Client Smp ID: 07CMMW
Inj Date : 28-MAY-2010 01:30
Operator : 402582 Inst ID: nhg.i
Smp Info : L1XLL1AA,,N00527,1,,,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ng/L)
1 Methyl Mercury	2.036	2.020	0.016	1011974	0.01555	0.015
$ 2 N-Propyl Mercury	3.876	3.873	0.003	12795645	0.33491	0.334

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052722.D

Page 1

Date : 28-MAY-2010 01:30

Client ID: 07CMMW

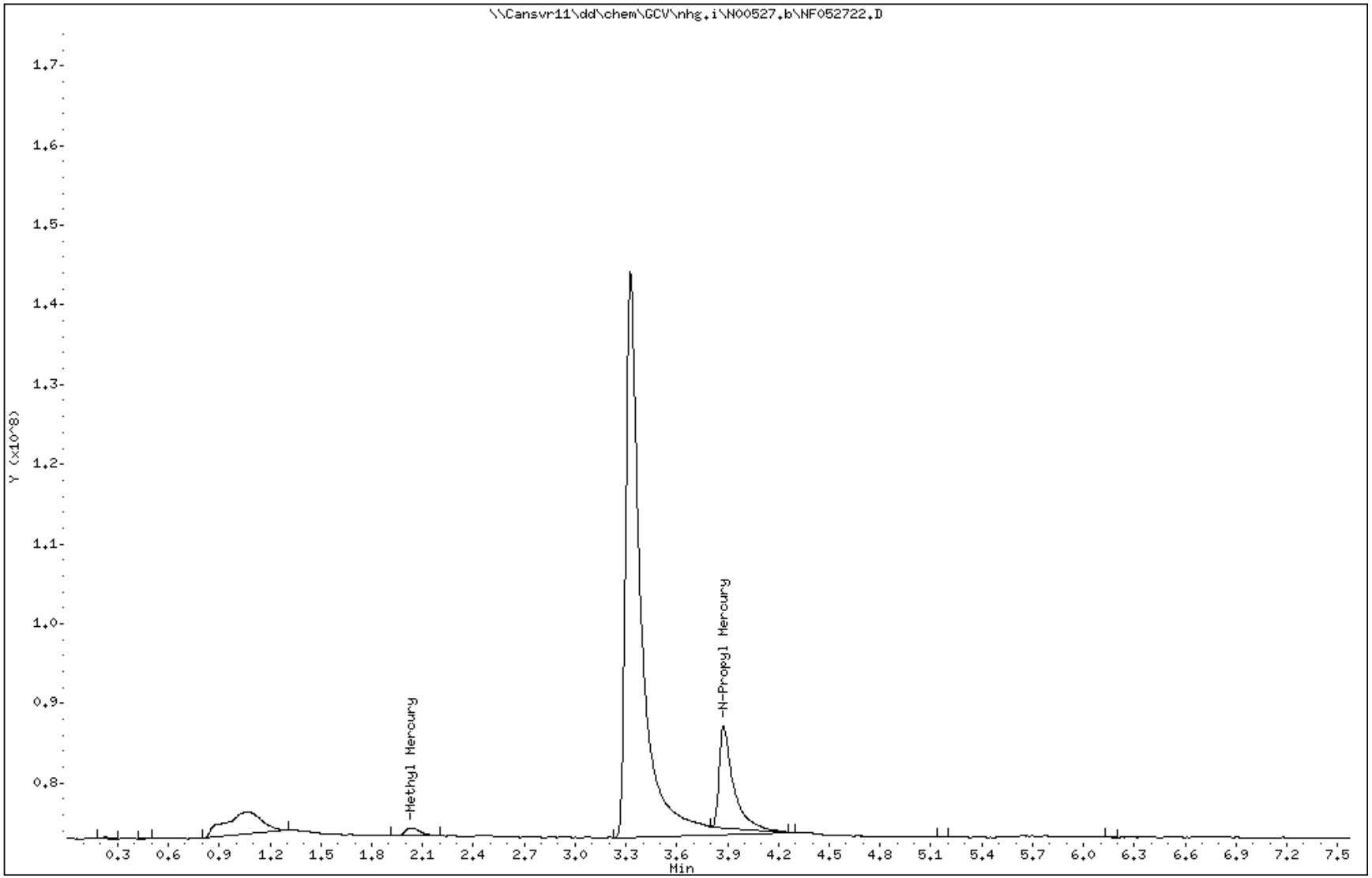
Instrument: nhg.i

Sample Info: L1XLL1AA,,N00527,1,,,,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica Seattle

Client Sample ID: 01HMSD

GC Volatiles

Lot-Sample #...: A0E210615-005 **Work Order #...:** L1XLM2AD **Matrix.....:** SO
Date Sampled...: 05/04/10 13:00 **Date Received..:** 05/21/10
Prep Date.....: 05/29/10 **Analysis Date..:** 06/01/10
Prep Batch #...: 0149021
Dilution Factor: 1 **Initial Wgt/Vol:** 0.9551 g **Final Wgt/Vol..:** 39 mL
% Moisture.....: 68 **Method.....:** CFR136A 1630

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methyl Mercury	ND	0.32	ug/kg	0.12

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	14 *	(30 - 127)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\NF060108.D
Lab Smp Id: L1XLM2AD Client Smp ID: 01HMSD
Inj Date : 01-JUN-2010 13:38
Operator : 402582 Inst ID: nhg.i
Smp Info : L1XLM2AD,4200,N00601,,,,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\N1630L.m
Meth Date : 01-Jun-2010 13:03 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Concentration Formula: Amt * DF * 1/Vi/Ws*Vt*0.215 * CpndVariable

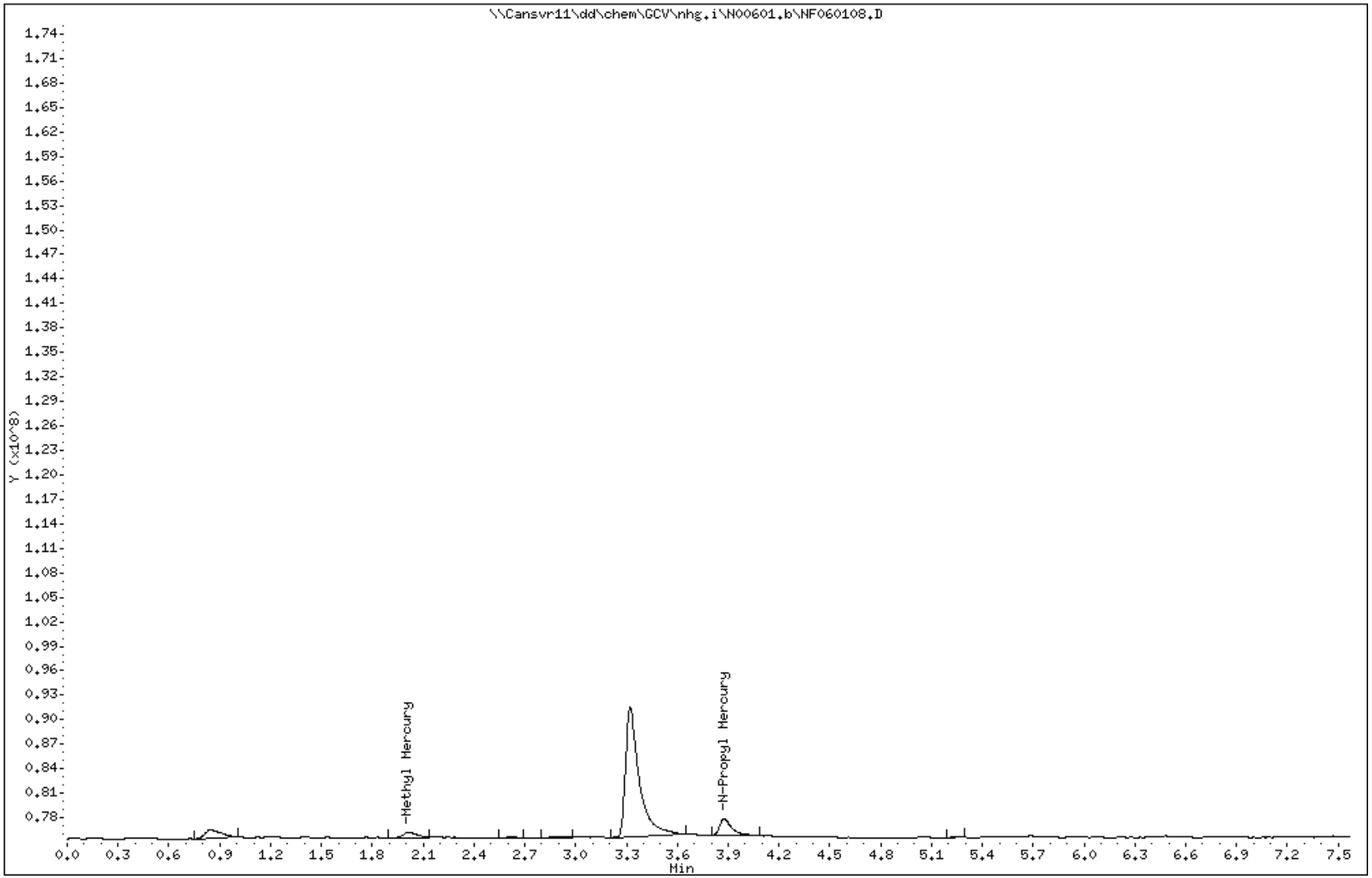
Name	Value	Description
DF	1.000	Dilution Factor
Vi	4200.000	Volume Injected
Ws	0.95510	Sample Weight
Vt	39000.000	Final Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ug/kg)
1 Methyl Mercury	2.010	2.006	0.004	670816	0.00328	0.006
$ 2 N-Propyl Mercury	3.876	3.873	0.003	2001198	0.06963	0.145(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\NF060108.D Page 1
Date : 01-JUN-2010 13:38
Client ID: 01HMSD Instrument: nhg.i
Sample Info: L1XLM2AD,4200,N00601,,,,,,,,N1630L
Volume Injected (uL): 4200.0 Operator: 402582
Column phase: Column diameter: 2.00



TestAmerica Seattle

Client Sample ID: 02HMSD

GC Volatiles

Lot-Sample #...: A0E210615-006 **Work Order #...:** L1XLN1AD **Matrix.....:** SO
Date Sampled...: 05/04/10 15:45 **Date Received..:** 05/21/10
Prep Date.....: 05/26/10 **Analysis Date..:** 05/28/10
Prep Batch #...: 0146087
Dilution Factor: 1 **Initial Wgt/Vol:** 1.0289 g **Final Wgt/Vol..:** 39 mL
% Moisture.....: 7.2 **Method.....:** CFR136A 1630

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methyl Mercury	**0.18**	**0.11**	**ug/kg**	**0.040**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	88	(30 - 127)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052777.D
Lab Smp Id: L1XLN1AD Client Smp ID: 02HMSD
Inj Date : 28-MAY-2010 21:39
Operator : 402582 Inst ID: nhg.i
Smp Info : L1XLN1AD,4200,N00527,,,,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Concentration Formula: Amt * DF * 1/Vi/Ws*Vt*0.215 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	4200.000	Volume Injected
Ws	1.029	Sample Weight
Vt	39000.000	Final Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ug/kg)
1 Methyl Mercury	2.026	2.020	0.006	3004772	0.08720	0.169
$ 2 N-Propyl Mercury	3.873	3.873	0.000	17003924	0.43833	0.850

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052777.D

Page 1

Date : 28-MAY-2010 21:39

Client ID: 02HMSD

Instrument: nhg.i

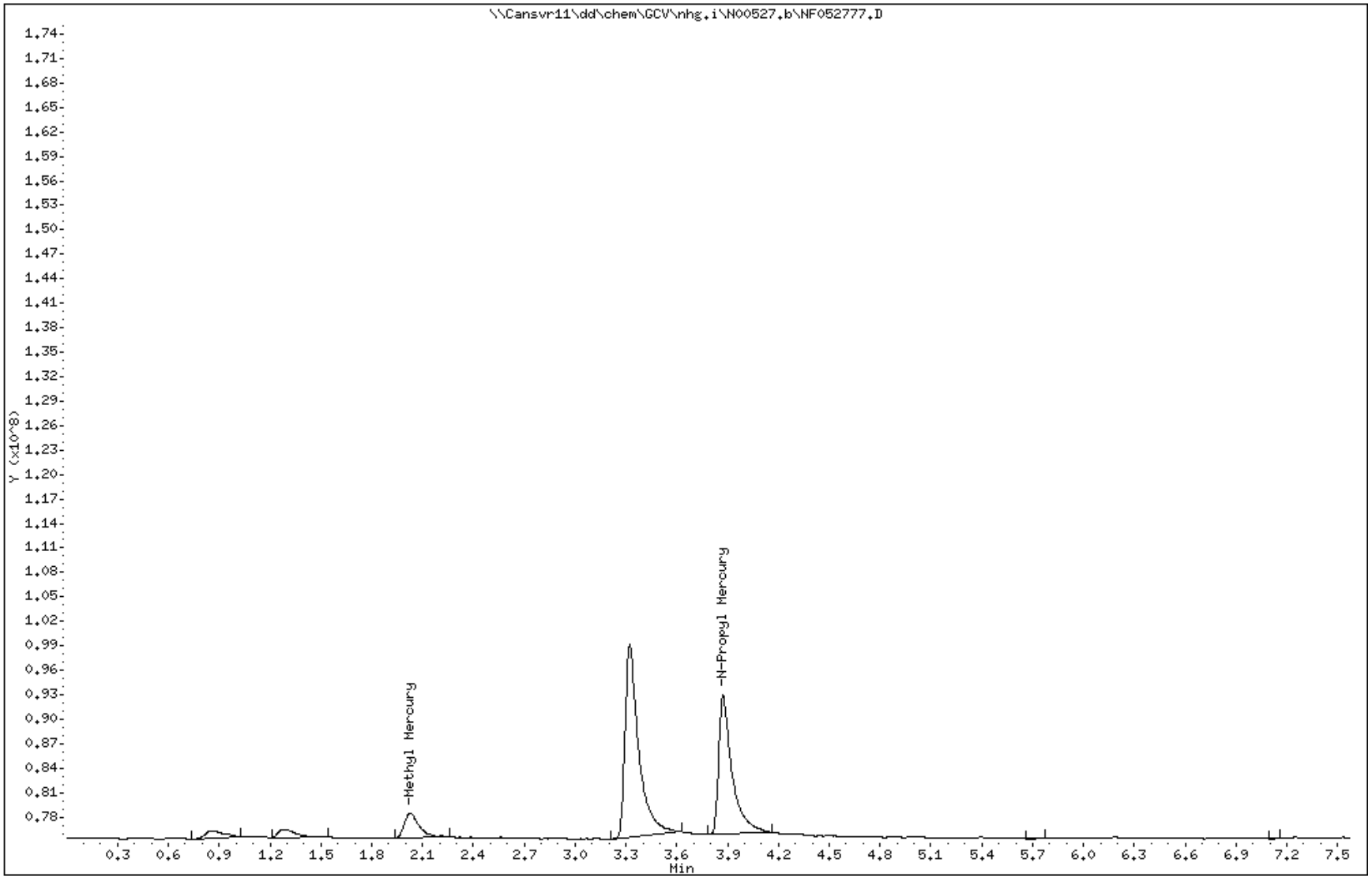
Sample Info: L1XLN1AD,4200,N00527,,,,,,,,N1630L

Volume Injected (uL): 4200.0

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica Seattle

Client Sample ID: 03HMSD

GC Volatiles

Lot-Sample #...: A0E210615-007 **Work Order #...:** L1XLP1AD **Matrix.....:** SO
Date Sampled...: 05/07/10 13:39 **Date Received..:** 05/21/10
Prep Date.....: 05/26/10 **Analysis Date..:** 05/28/10
Prep Batch #...: 0146087
Dilution Factor: 1 **Initial Wgt/Vol:** 0.9651 g **Final Wgt/Vol..:** 39 mL
% Moisture.....: 20 **Method.....:** CFR136A 1630

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methyl Mercury	**0.046 J**	**0.062**	**ug/kg**	**0.046**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	76	(30 - 127)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

TestAmerica - North Canton

Methyl Mercury Method 1630

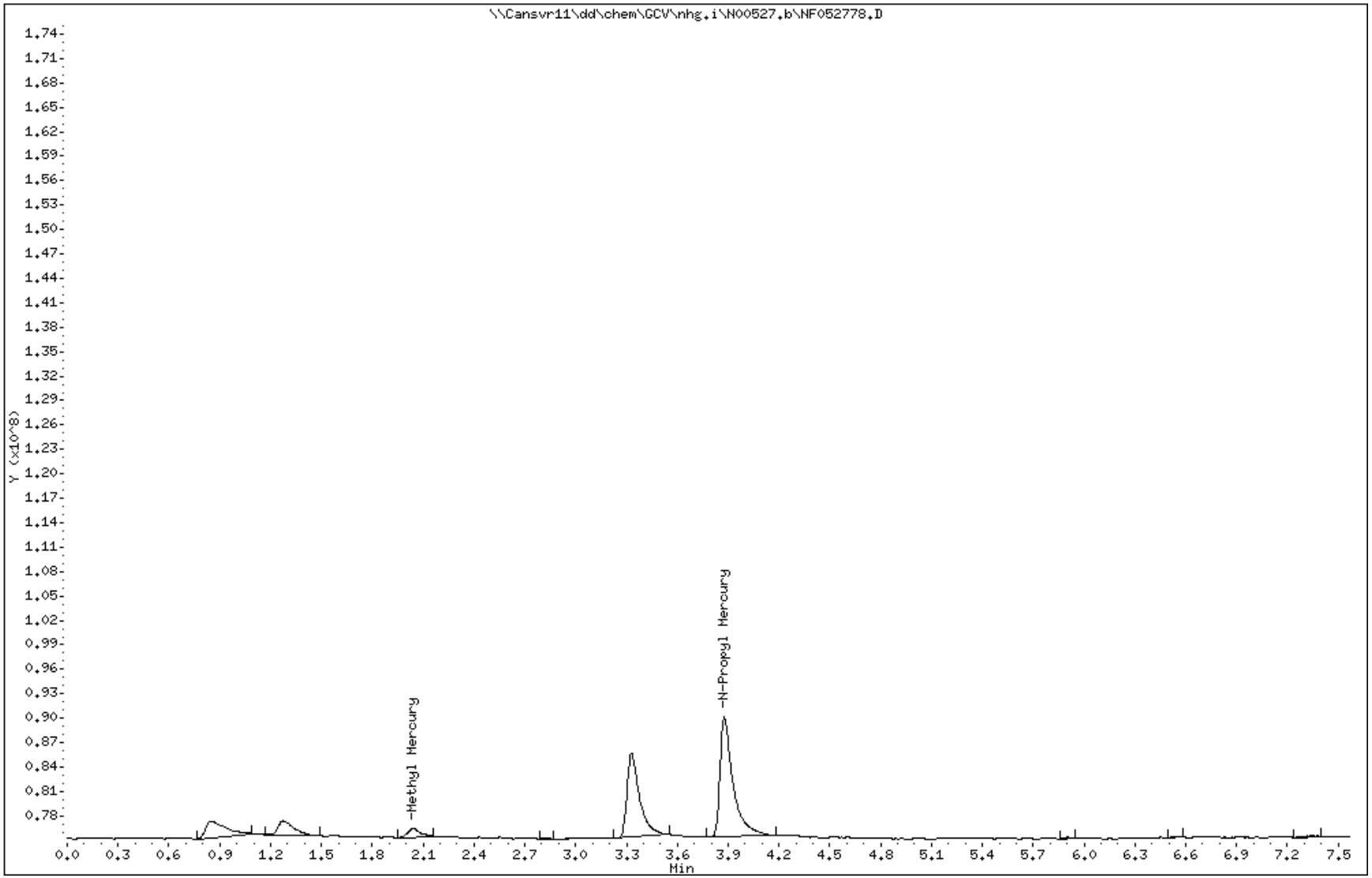
Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052778.D
Lab Smp Id: L1XLP1AD Client Smp ID: 03HMSD
Inj Date : 28-MAY-2010 22:01
Operator : 402582 Inst ID: nhg.i
Smp Info : L1XLP1AD,4200,N00527,,,,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Concentration Formula: Amt * DF * 1/Vi/Ws*Vt*0.215 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	4200.000	Volume Injected
Ws	0.96510	Sample Weight
Vt	39000.000	Final Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ug/kg)
1 Methyl Mercury	2.040	2.020	0.020	1082009	0.01807	0.037
$ 2 N-Propyl Mercury	3.876	3.873	0.003	14687091	0.38139	0.788

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052778.D Page 1
Date : 28-MAY-2010 22:01
Client ID: 03HMSD Instrument: nhg.i
Sample Info: L1XLP1AD,4200,N00527,,,,,,,,N1630L
Volume Injected (uL): 4200.0 Operator: 402582
Column phase: Column diameter: 2.00



TestAmerica Seattle

Client Sample ID: 01SMMW

GC Volatiles

Lot-Sample #...: A0E210615-009 **Work Order #...:** L1XLT1AA **Matrix.....:** WG
Date Sampled...: 05/15/10 12:00 **Date Received..:** 05/21/10
Prep Date.....: 05/27/10 **Analysis Date..:** 05/28/10
Prep Batch #...: 0149019
Dilution Factor: 1 **Initial Wgt/Vol:** 39 mL **Final Wgt/Vol..:** 39 mL
Method.....: CFR136A 1630

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methyl Mercury	**0.14**	**0.050**	**ng/L**	**0.010**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	68	(50 - 150)

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052769.D
Lab Smp Id: L1XLT1AA Client Smp ID: 01SMMW
Inj Date : 28-MAY-2010 18:46
Operator : 402582 Inst ID: nhg.i
Smp Info : L1XLT1AA,,N00527,1,,,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 28-May-2010 17:12 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ng/L)
1 Methyl Mercury	2.023	2.020	0.003	4381242	0.13669	0.136
$ 2 N-Propyl Mercury	3.866	3.873	-0.007	13094488	0.34226	0.342

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052769.D

Page 1

Date : 28-MAY-2010 18:46

Client ID: 01SMMW

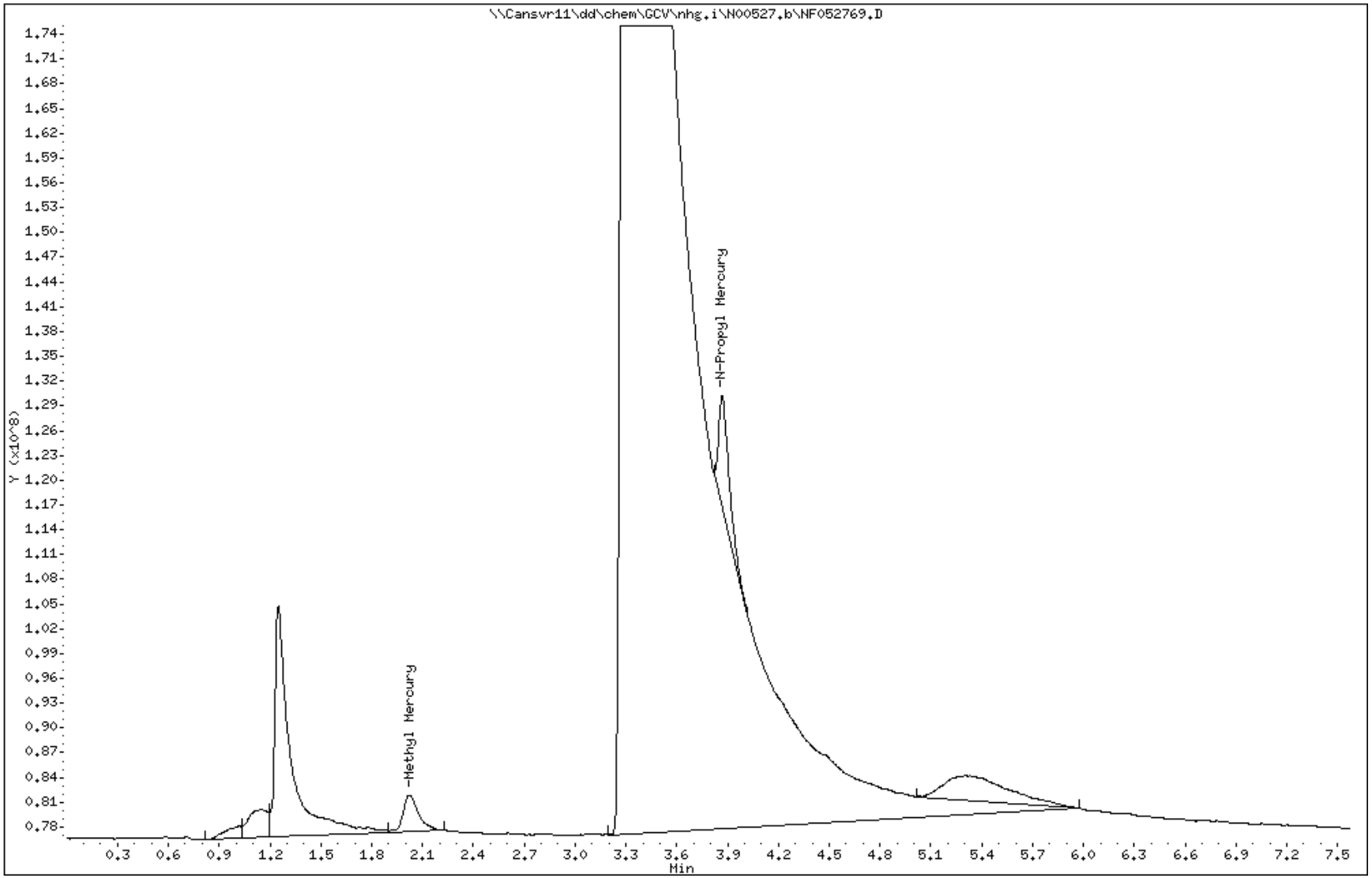
Instrument: nhg.i

Sample Info: L1XLT1AA,,N00527,1,,,,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica Seattle

Client Sample ID: 04SMMW

GC Volatiles

Lot-Sample #...: A0E210615-010 **Work Order #...:** L1XLV1AA **Matrix.....:** WG
Date Sampled...: 05/14/10 18:45 **Date Received..:** 05/21/10
Prep Date.....: 05/27/10 **Analysis Date..:** 05/28/10
Prep Batch #...: 0149019
Dilution Factor: 1 **Initial Wgt/Vol:** 39 mL **Final Wgt/Vol..:** 39 mL
Method.....: CFR136A 1630

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methyl Mercury	**0.063**	**0.050**	**ng/L**	**0.010**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	73	(50 - 150)

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052726.D
Lab Smp Id: L1XLV1AA Client Smp ID: 04SMMW
Inj Date : 28-MAY-2010 02:57
Operator : 402582 Inst ID: nhg.i
Smp Info : L1XLV1AA,,N00527,1,,,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ng/L)
1 Methyl Mercury	2.013	2.020	-0.007	2356739	0.06390	0.063
$ 2 N-Propyl Mercury	3.866	3.873	-0.007	13955570	0.36342	0.363

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052726.D

Page 1

Date : 28-MAY-2010 02:57

Client ID: 04SMMW

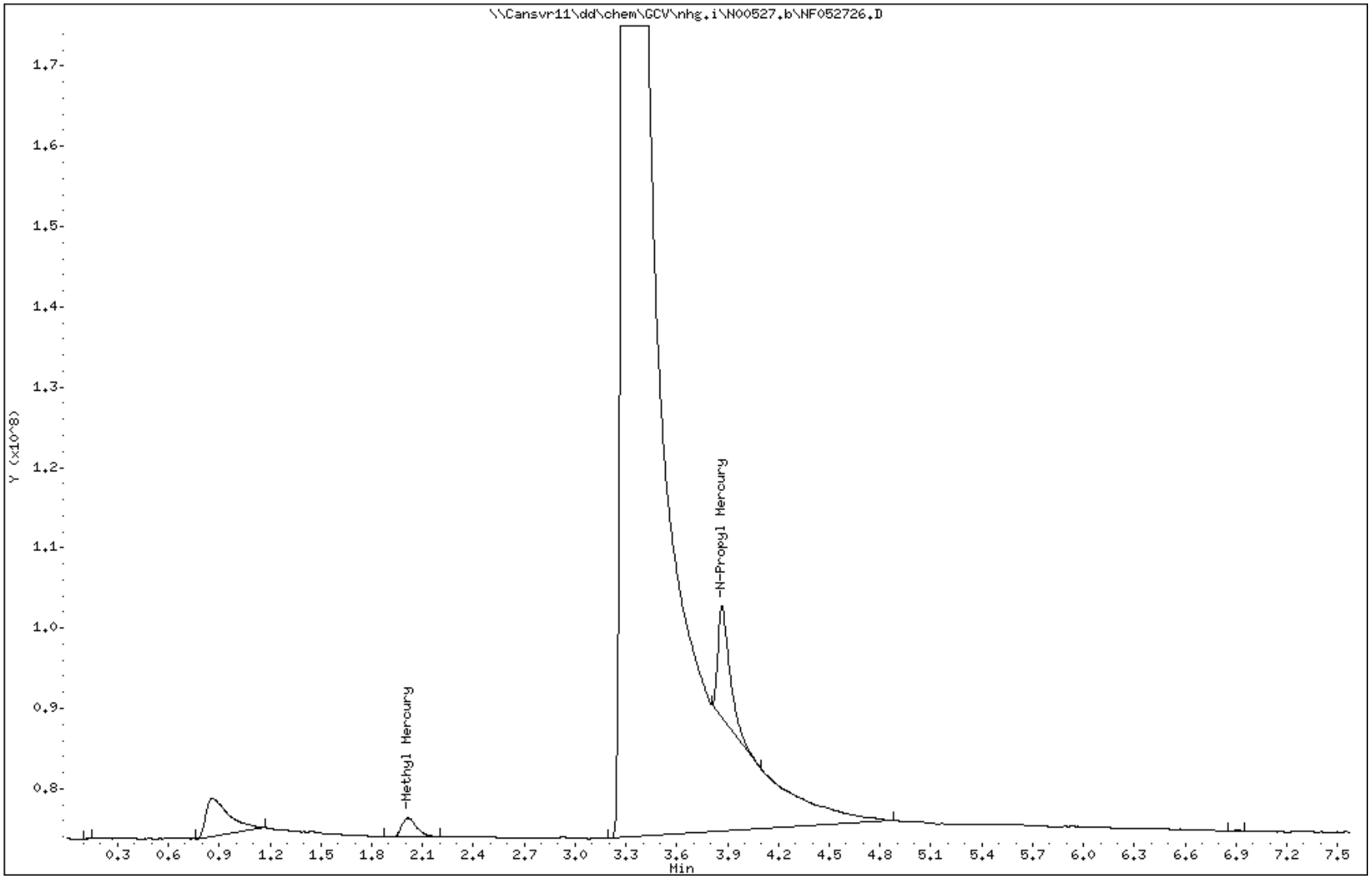
Instrument: nhg.i

Sample Info: L1XLV1AA,,N00527,1,,,,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica Seattle

Client Sample ID: 06SMMW

GC Volatiles

Lot-Sample #...: A0E210615-011 **Work Order #...:** L1XLW1AA **Matrix.....:** WG
Date Sampled...: 05/14/10 16:55 **Date Received..:** 05/21/10
Prep Date.....: 05/27/10 **Analysis Date..:** 05/28/10
Prep Batch #...: 0149019
Dilution Factor: 1 **Initial Wgt/Vol:** 39 mL **Final Wgt/Vol..:** 39 mL
Method.....: CFR136A 1630

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methyl Mercury	**0.066**	**0.050**	**ng/L**	**0.010**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	68	(50 - 150)

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052727.D
Lab Smp Id: L1XLW1AA Client Smp ID: 06SMMW
Inj Date : 28-MAY-2010 03:19
Operator : 402582 Inst ID: nhg.i
Smp Info : L1XLW1AA,,N00527,1,,,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ng/L)
1 Methyl Mercury	2.009	2.020	-0.011	2421710	0.06623	0.066
$ 2 N-Propyl Mercury	3.866	3.873	-0.007	13018632	0.34039	0.340

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052727.D

Page 1

Date : 28-MAY-2010 03:19

Client ID: 06SMMW

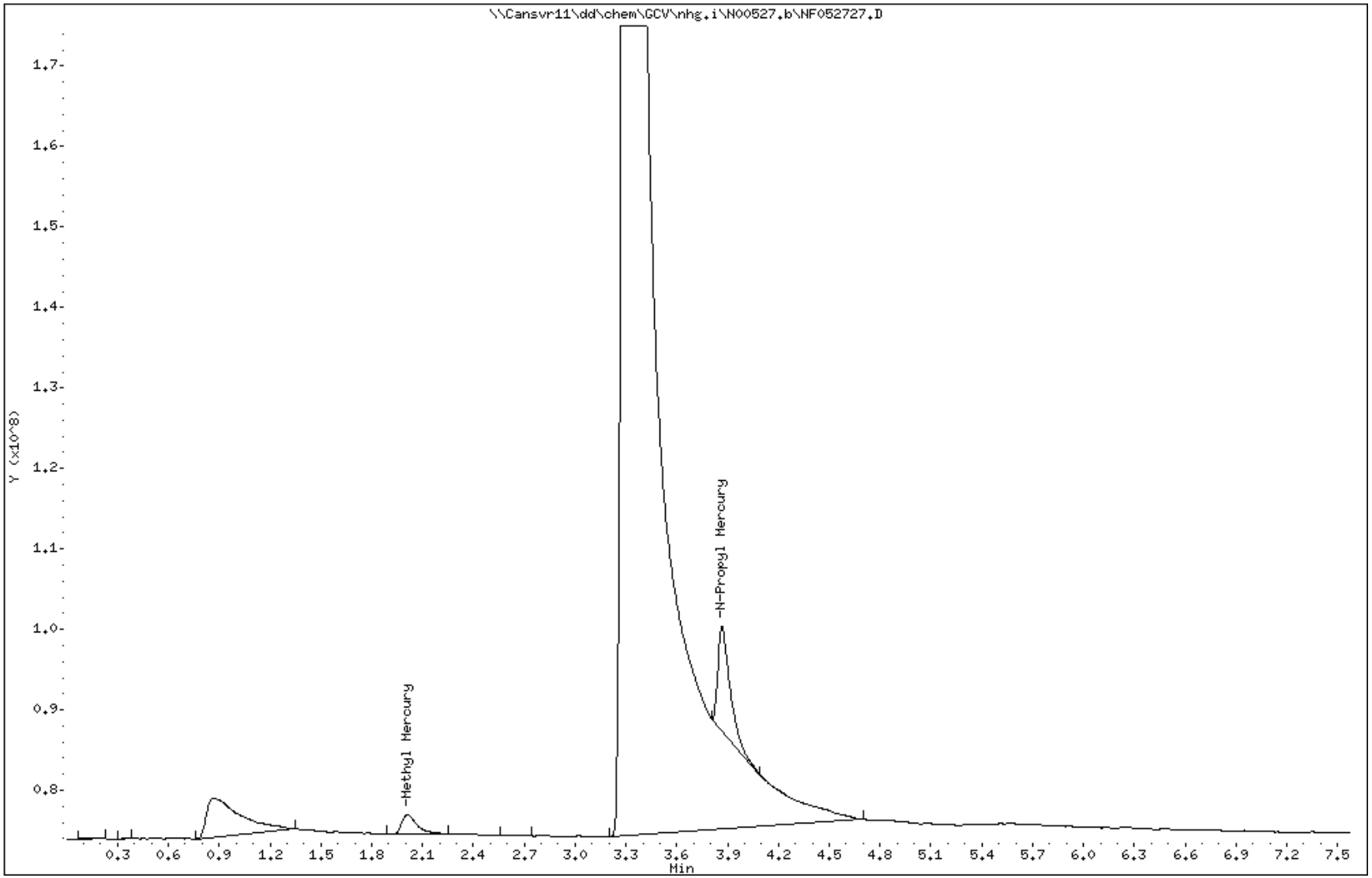
Instrument: nhg.i

Sample Info: L1XLW1AA,,N00527,1,,,,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica Seattle

Client Sample ID: 07SMMW

GC Volatiles

Lot-Sample #...: A0E210615-012 **Work Order #...:** L1XLX1AA **Matrix.....:** WG
Date Sampled...: 05/14/10 14:20 **Date Received..:** 05/21/10
Prep Date.....: 05/27/10 **Analysis Date..:** 05/28/10
Prep Batch #...: 0149019
Dilution Factor: 1 **Initial Wgt/Vol:** 39 mL **Final Wgt/Vol..:** 39 mL
Method.....: CFR136A 1630

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methyl Mercury	**0.018 J**	**0.025**	**ng/L**	**0.010**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	70	(50 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052728.D
Lab Smp Id: L1XLX1AA Client Smp ID: 07SMMW
Inj Date : 28-MAY-2010 03:40
Operator : 402582 Inst ID: nhg.i
Smp Info : L1XLX1AA,,N00527,1,,,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ng/L)
1 Methyl Mercury	2.010	2.020	-0.010	1107005	0.01896	0.018
$ 2 N-Propyl Mercury	3.866	3.873	-0.007	13518690	0.35268	0.352

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052728.D

Page 1

Date : 28-MAY-2010 03:40

Client ID: 07SMMW

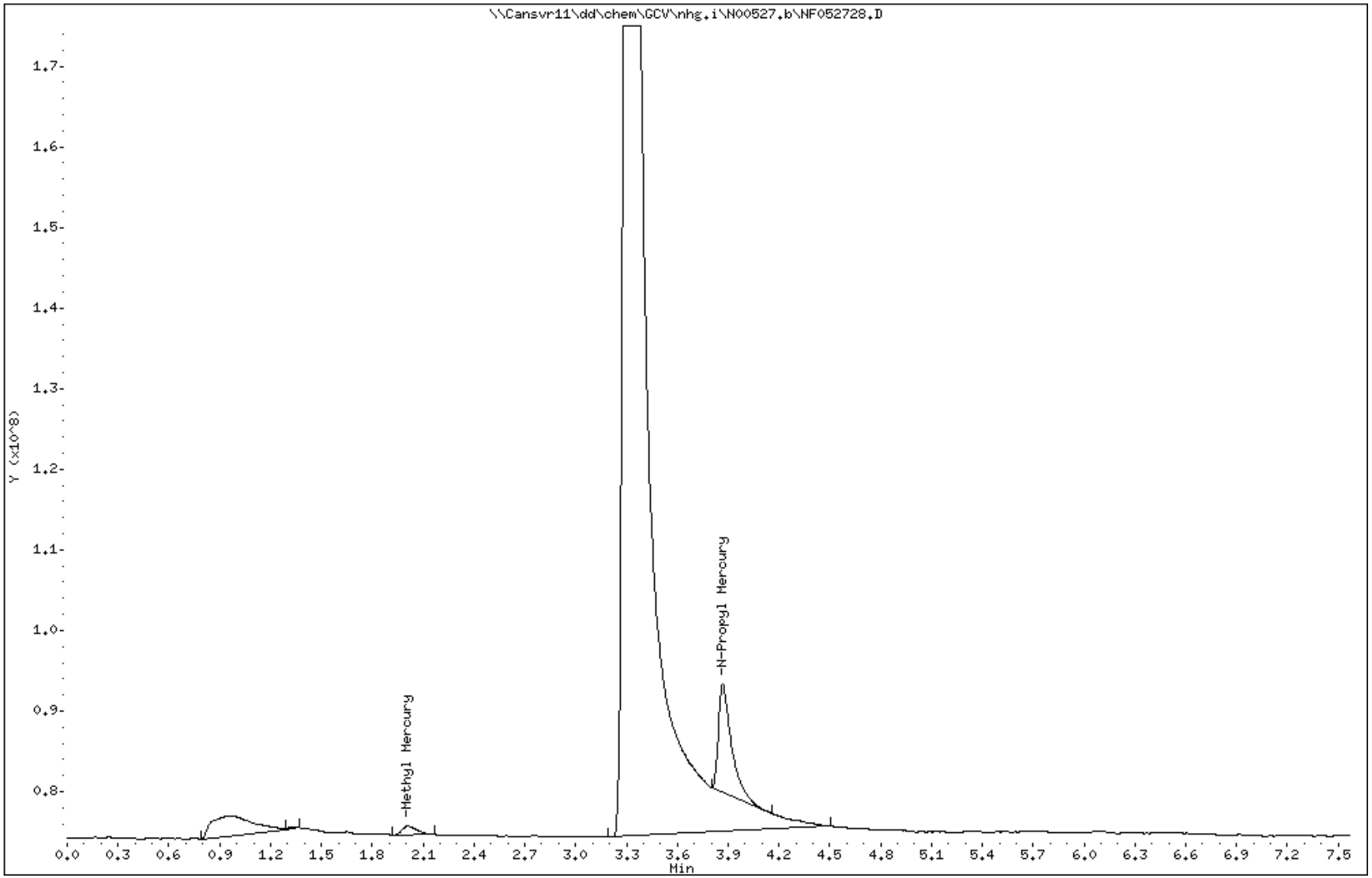
Instrument: nhg.i

Sample Info: L1XLX1AA,,N00527,1,,,,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica Seattle

Client Sample ID: 09SMMW

GC Volatiles

Lot-Sample #...: A0E210615-013 **Work Order #...:** L1XL01AA **Matrix.....:** WG
Date Sampled...: 05/14/10 13:30 **Date Received..:** 05/21/10
Prep Date.....: 05/27/10 **Analysis Date..:** 05/28/10
Prep Batch #...: 0149019
Dilution Factor: 1 **Initial Wgt/Vol:** 39 mL **Final Wgt/Vol..:** 39 mL
Method.....: CFR136A 1630

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methyl Mercury	**0.26**	**0.050**	**ng/L**	**0.010**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	58	(50 - 150)

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052729.D
Lab Smp Id: L1XL01AA Client Smp ID: 09SMMW
Inj Date : 28-MAY-2010 04:02
Operator : 402582 Inst ID: nhg.i
Smp Info : L1XL01AA,,N00527,1,,,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ng/L)
1 Methyl Mercury	2.016	2.020	-0.004	7838850	0.26100	0.261
$ 2 N-Propyl Mercury	3.866	3.873	-0.007	10942894	0.28938	0.289

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052729.D

Page 1

Date : 28-MAY-2010 04:02

Client ID: 09SMMW

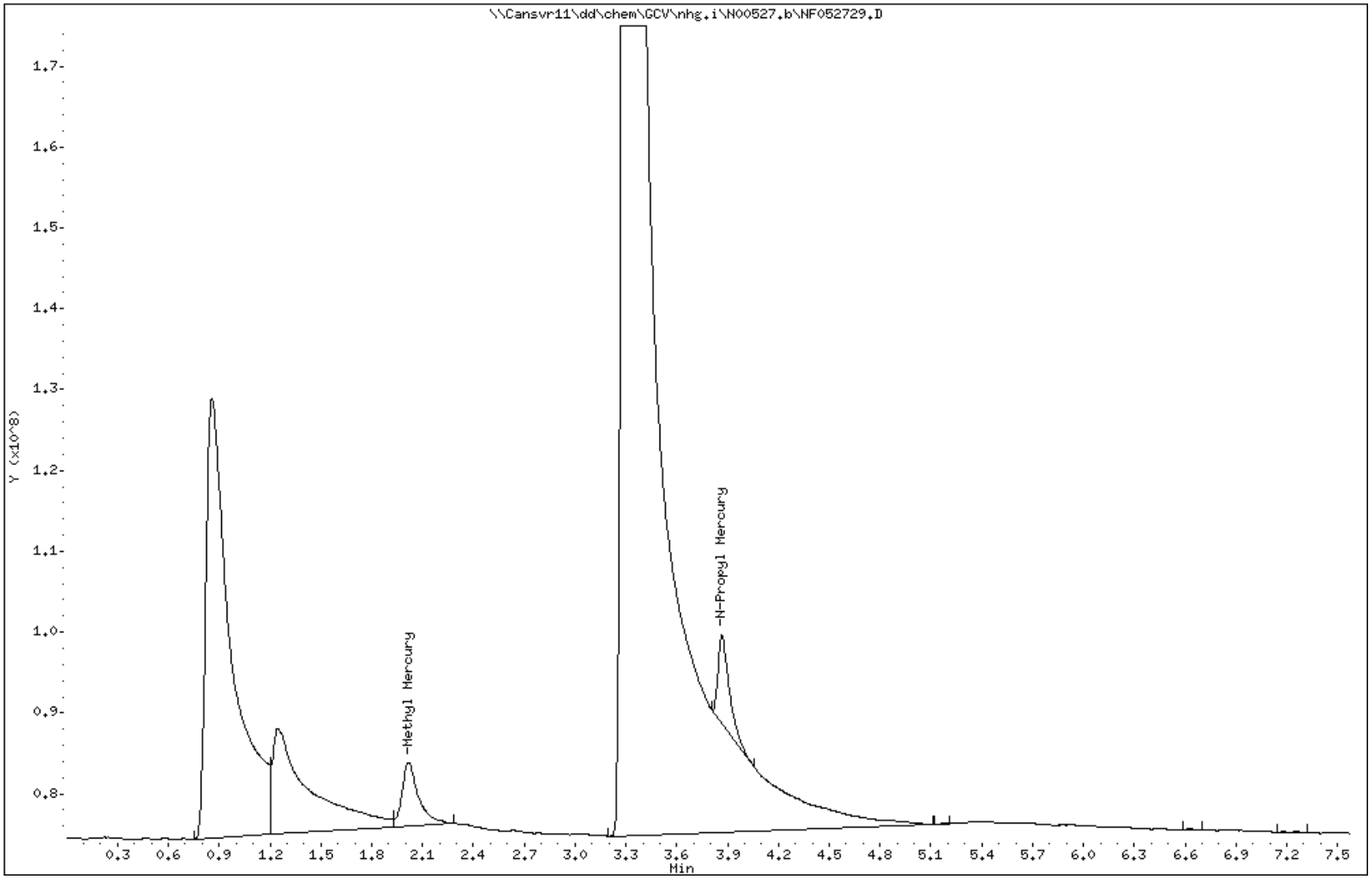
Instrument: nhg.i

Sample Info: L1XL01AA,,N00527,1,,,,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica Seattle

Client Sample ID: 01HMMW

GC Volatiles

Lot-Sample #...: A0E210615-014 **Work Order #...:** L1XL11AA **Matrix.....:** WG
Date Sampled...: 05/16/10 08:00 **Date Received..:** 05/21/10
Prep Date.....: 05/27/10 **Analysis Date..:** 05/28/10
Prep Batch #...: 0149019
Dilution Factor: 1 **Initial Wgt/Vol:** 39 mL **Final Wgt/Vol..:** 39 mL
Method.....: CFR136A 1630

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methyl Mercury	**0.029**	**0.025**	**ng/L**	**0.010**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	78	(50 - 150)

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052730.D
Lab Smp Id: L1XL11AA Client Smp ID: 01HMMW
Inj Date : 28-MAY-2010 04:24
Operator : 402582 Inst ID: nhg.i
Smp Info : L1XL11AA,,N00527,1,,,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ng/L)
1 Methyl Mercury	2.023	2.020	0.003	1407546	0.02977	0.029
$ 2 N-Propyl Mercury	3.866	3.873	-0.007	15043050	0.39014	0.390

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052730.D

Page 1

Date : 28-MAY-2010 04:24

Client ID: 01HMMW

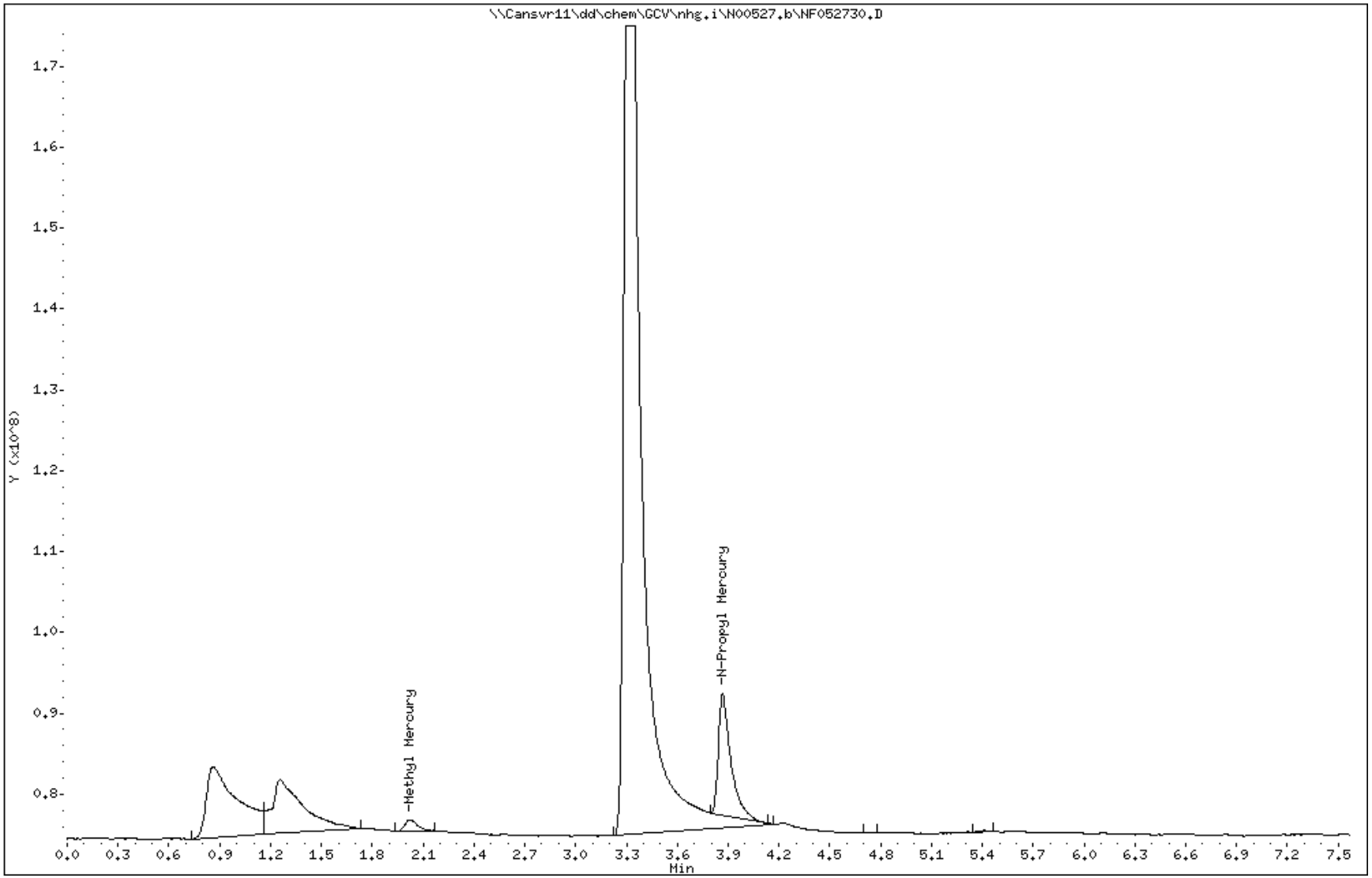
Instrument: nhg.i

Sample Info: L1XL11AA,,N00527,1,,,,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica Seattle

Client Sample ID: 03HMSW

GC Volatiles

Lot-Sample #...: A0E210615-015 **Work Order #...:** L1XL21AA **Matrix.....:** WG
Date Sampled...: 05/16/10 08:30 **Date Received..:** 05/21/10
Prep Date.....: 05/27/10 **Analysis Date..:** 05/28/10
Prep Batch #...: 0149019
Dilution Factor: 1 **Initial Wgt/Vol:** 39 mL **Final Wgt/Vol..:** 39 mL
Method.....: CFR136A 1630

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methyl Mercury	**0.042**	**0.025**	**ng/L**	**0.010**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	77	(50 - 150)

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052731.D
Lab Smp Id: L1XL21AA Client Smp ID: 03HMSW
Inj Date : 28-MAY-2010 04:45
Operator : 402582 Inst ID: nhg.i
Smp Info : L1XL21AA,,N00527,1,,,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ng/L)
1 Methyl Mercury	2.013	2.020	-0.007	1762335	0.04253	0.042
$ 2 N-Propyl Mercury	3.866	3.873	-0.007	14809225	0.38440	0.384

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052731.D

Page 1

Date : 28-MAY-2010 04:45

Client ID: 03HMSW

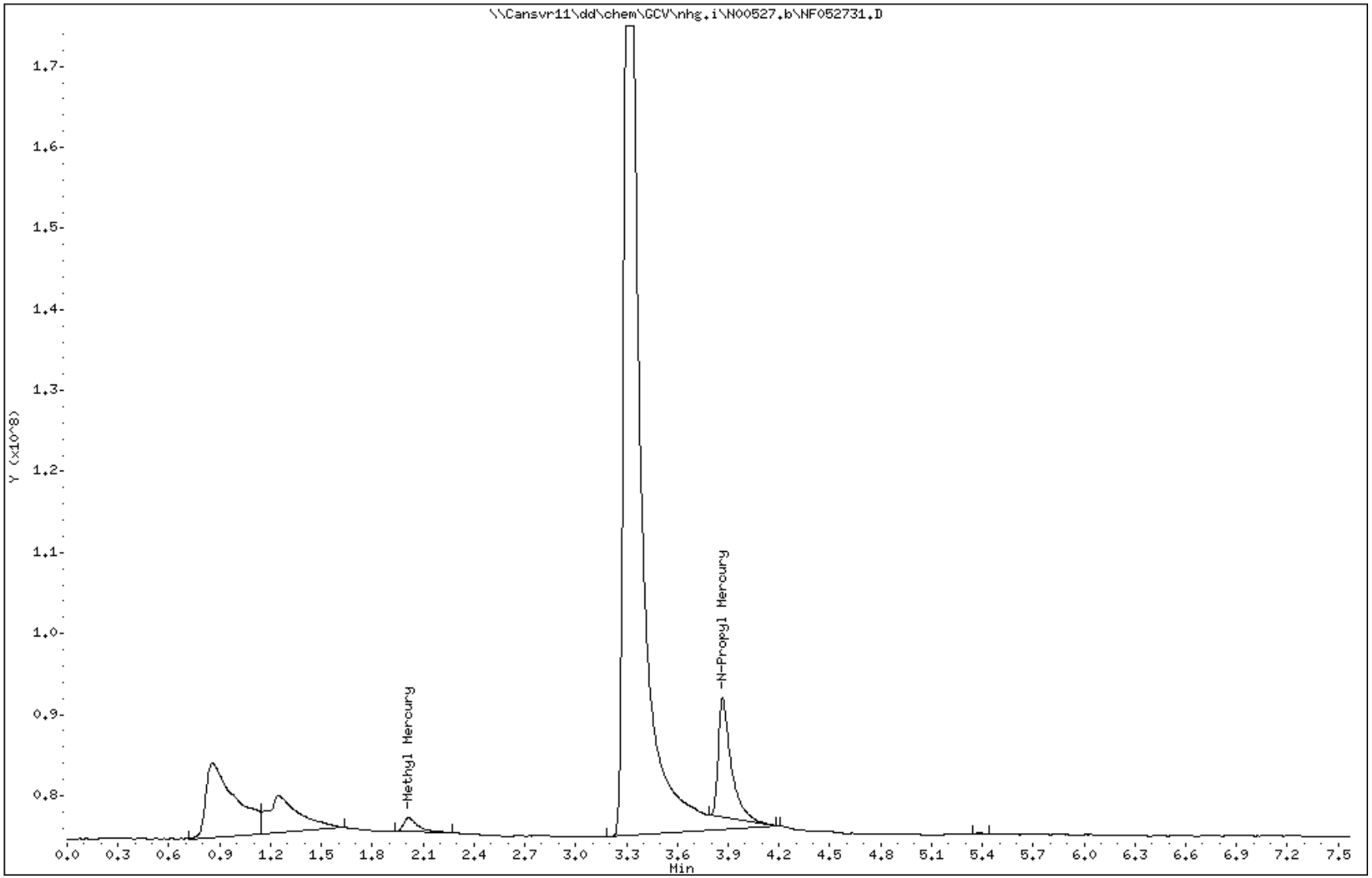
Instrument: nhg.i

Sample Info: L1XL21AA,,N00527,1,,,,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica Seattle

Client Sample ID: 04HMMW

GC Volatiles

Lot-Sample #...: A0E210615-016 **Work Order #...:** L1XL31AA **Matrix.....:** WG
Date Sampled...: 05/16/10 10:00 **Date Received..:** 05/21/10
Prep Date.....: 05/27/10 **Analysis Date..:** 05/28/10
Prep Batch #...: 0149019
Dilution Factor: 1 **Initial Wgt/Vol:** 39 mL **Final Wgt/Vol..:** 39 mL
Method.....: CFR136A 1630

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methyl Mercury	**0.074**	**0.050**	**ng/L**	**0.010**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	76	(50 - 150)

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052732.D
Lab Smp Id: L1XL31AA Client Smp ID: 04HMMW
Inj Date : 28-MAY-2010 05:07
Operator : 402582 Inst ID: nhg.i
Smp Info : L1XL31AA,,N00527,1,,,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ng/L)
1 Methyl Mercury	2.029	2.020	0.009	2641698	0.07414	0.074
$ 2 N-Propyl Mercury	3.873	3.873	0.000	14655633	0.38062	0.380

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052732.D

Page 1

Date : 28-MAY-2010 05:07

Client ID: 04HMMW

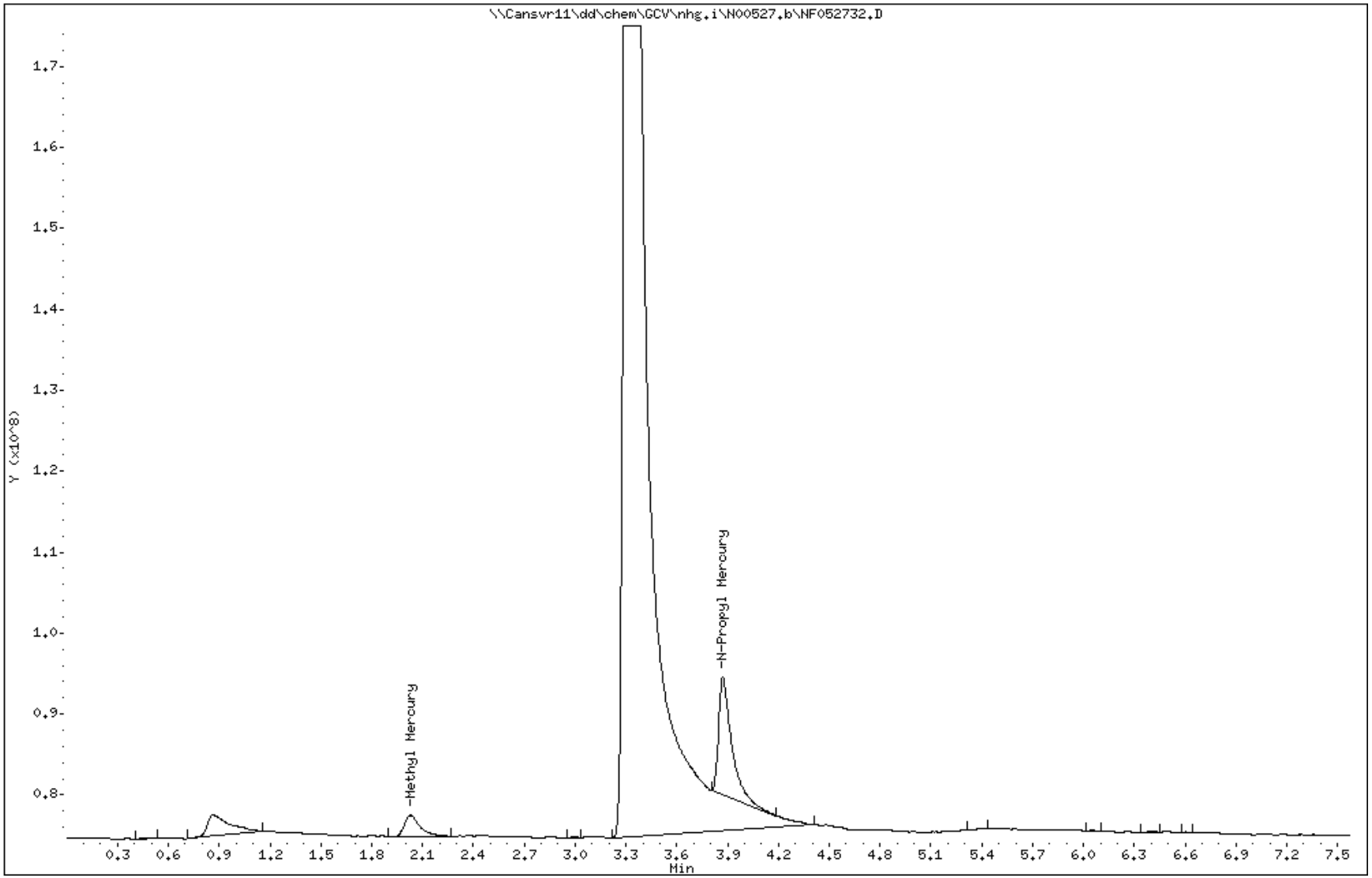
Instrument: nhg.i

Sample Info: L1XL31AA,,N00527,1,,,,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica Seattle

Client Sample ID: 06HMMW

GC Volatiles

Lot-Sample #...: A0E210615-017 **Work Order #...:** L1XL51AA **Matrix.....:** WG
Date Sampled...: 05/16/10 12:00 **Date Received..:** 05/21/10
Prep Date.....: 05/27/10 **Analysis Date..:** 05/28/10
Prep Batch #...: 0149019
Dilution Factor: 1 **Initial Wgt/Vol:** 39 mL **Final Wgt/Vol..:** 39 mL
Method.....: CFR136A 1630

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Methyl Mercury	**0.030**	**0.025**	**ng/L**	**0.010**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	76	(50 - 150)

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052733.D
Lab Smp Id: L1XL51AA Client Smp ID: 06HMMW
Inj Date : 28-MAY-2010 05:29
Operator : 402582 Inst ID: nhg.i
Smp Info : L1XL51AA,,N00527,1,,,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ng/L)
1 Methyl Mercury	2.043	2.020	0.023	1427270	0.03048	0.030
$ 2 N-Propyl Mercury	3.876	3.873	0.003	14608394	0.37946	0.379

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052733.D

Page 1

Date : 28-MAY-2010 05:29

Client ID: 06HMMW

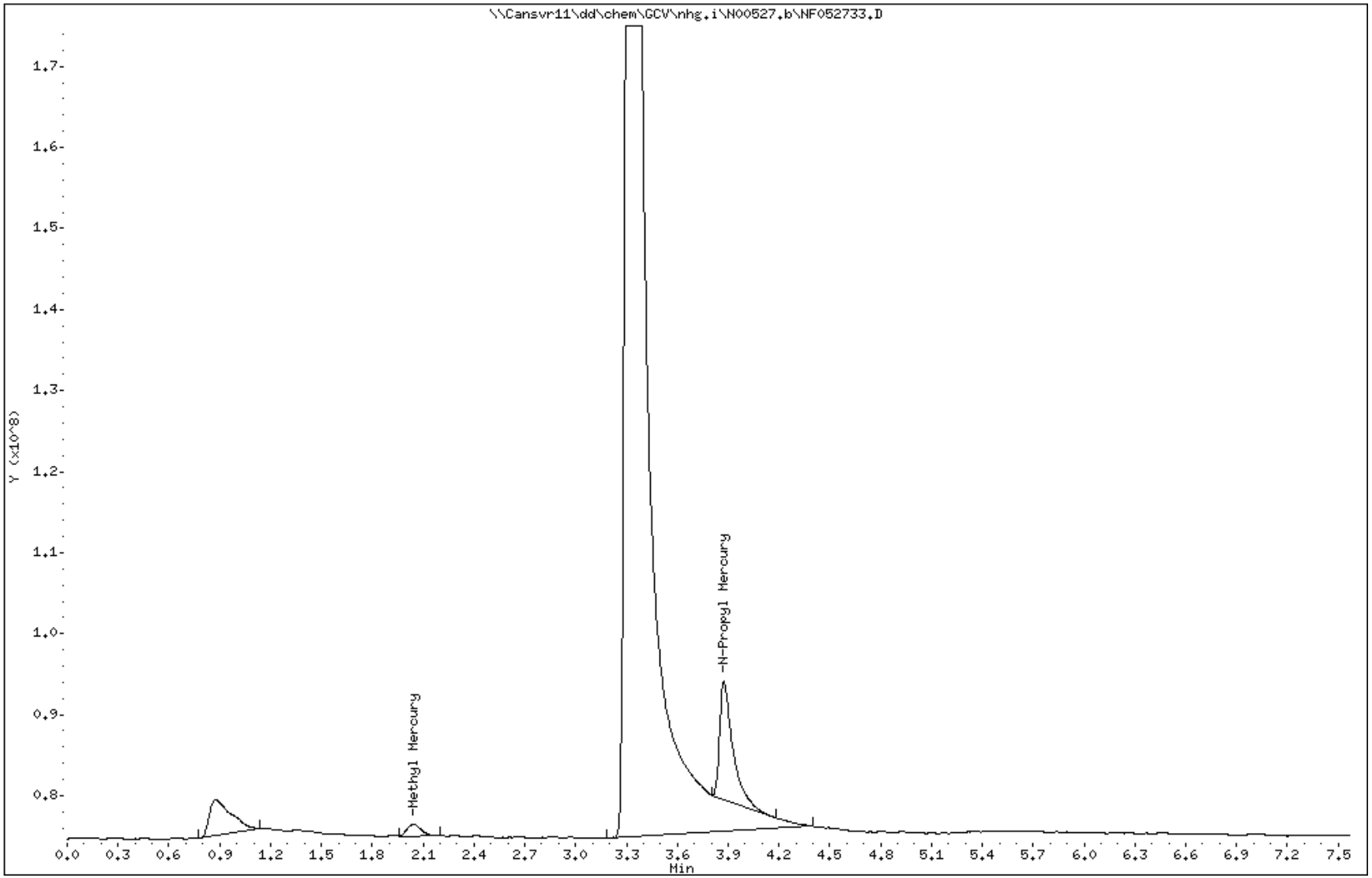
Instrument: nhg.i

Sample Info: L1XL51AA,,N00527,1,,,,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



STANDARD DATA

Calibration History

Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\N1630L.m
Start Cal Date: 25-MAR-2010 19:32
End Cal Date : 25-MAR-2010 23:06
Last Cal Level: 11
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00001		
25-MAR-2010 19:32	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032503.D
Cal Level: 2 , Cal Amount: 0.00001		
25-MAR-2010 19:54	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032504.D
Cal Level: 3 , Cal Amount: 0.00001		
25-MAR-2010 20:15	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032505.D
Cal Level: 4 , Cal Amount: 0.02500		
25-MAR-2010 20:36	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032506.D
Cal Level: 5 , Cal Amount: 0.05000		
25-MAR-2010 20:58	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032507.D
Cal Level: 6 , Cal Amount: 0.10000		
25-MAR-2010 21:19	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032508.D
Cal Level: 7 , Cal Amount: 0.20000		
25-MAR-2010 21:40	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032509.D
Cal Level: 8 , Cal Amount: 0.50000		

```
|25-MAR-2010 22:02 |1630              |                                        |
|\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032510.D                                |
+------------------+-----------------+----------------------------------------+

+------------------+-----------------+----------------------------------------+
| Cal Level: 9 , Cal Amount: 1.00000                                             |
+================================================================================+
|25-MAR-2010 22:23 |1630              |                                        |
|\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032511.D                                |
+------------------+-----------------+----------------------------------------+

+------------------+-----------------+----------------------------------------+
| Cal Level: 10, Cal Amount: 2.00000                                             |
+================================================================================+
|25-MAR-2010 22:45 |1630              |                                        |
|\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032512.D                                |
+------------------+-----------------+----------------------------------------+

+------------------+-----------------+----------------------------------------+
| Cal Level: 11, Cal Amount: 4.00000                                             |
+================================================================================+
|25-MAR-2010 23:06 |1630              |                                        |
|\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032513.D                                |
+------------------+-----------------+----------------------------------------+


Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 8
+------------------+-----------------+----------------------------------------+
|26-MAR-2010 19:44 |1630              |                                        |
|\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032571.D                                |
|26-MAR-2010 17:58 |1630              |                                        |
|\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032566.D                                |
|26-MAR-2010 08:43 |1630              |                                        |
|\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032540.D                                |
|25-MAR-2010 22:02 |1630              |                                        |
|\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032510.D                                |
+------------------+-----------------+----------------------------------------+
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TestAmerica - North Canton

INITIAL CALIBRATION DATA

.art Cal Date : 25-MAR-2010 19:32
d Cal Date : 25-MAR-2010 23:06
ant Method : ESTD
rget Version : 4.14
tegrator : Falcon
thod file : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\N1630L.m
st Edit : 29-Mar-2010 06:49 shockr

libration File Names:
vel 1: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032503.D
vel 2: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032504.D
vel 3: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032505.D
vel 4: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032506.D
vel 5: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032507.D
vel 6: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032508.D
vel 7: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032509.D
vel 8: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032510.D
vel 9: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032511.D
vel 10: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032512.D
vel 11: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032513.D

Compound	0.0000100 Level 1	0.0000100 Level 2	0.0000100 Level 3	0.0250000 Level 4	0.0500000 Level 5	0.1000000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	0.2000000 Level 7	0.5000000 Level 8	1.0000 Level 9	2.0000 Level 10	4.0000 Level 11						
1 Methyl Mercury	539239	256662	461002	1126029	2036546	3194161					
	6110267	14492322	29945098	61794172	125718812		WLINR	-0.02084	3.595e-008		0.99994
2 N-Propyl Mercury	+++++	+++++	+++++	885805	1812755	3692394					
	7046036	18759544	39095155	81622205	161677683		WLINR	0.02045	2.458e-008		0.99983

TestAmerica - North Canton

INITIAL CALIBRATION DATA

art Cal Date : 25-MAR-2010 19:32
d Cal Date : 25-MAR-2010 23:06
ant Method : ESTD
rget Version : 4.14
tegrator : Falcon
thod file : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\N1630L.m
st Edit : 29-Mar-2010 06:49 shockr

urve	Formula	Units
t Linear	Amt = b + m1*Rsp	Amount

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032503.D
Lab Smp Id: ICAL1
Inj Date : 25-MAR-2010 19:32
Operator : 402582 Inst ID: nhg.i
Smp Info : ICAL1,,N00325i,1,,1,,,1,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\N1630L.m
Meth Date : 25-Mar-2010 19:40 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 19:32 Cal File: NF032503.D
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.526	2.526	0.000	539239	0.00001	0.000
$ 2 N-Propyl Mercury	3.923	3.923	0.000	22013269	0.50000	0.000

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032503.D

Page 1

Date : 25-MAR-2010 19:32

Client ID:

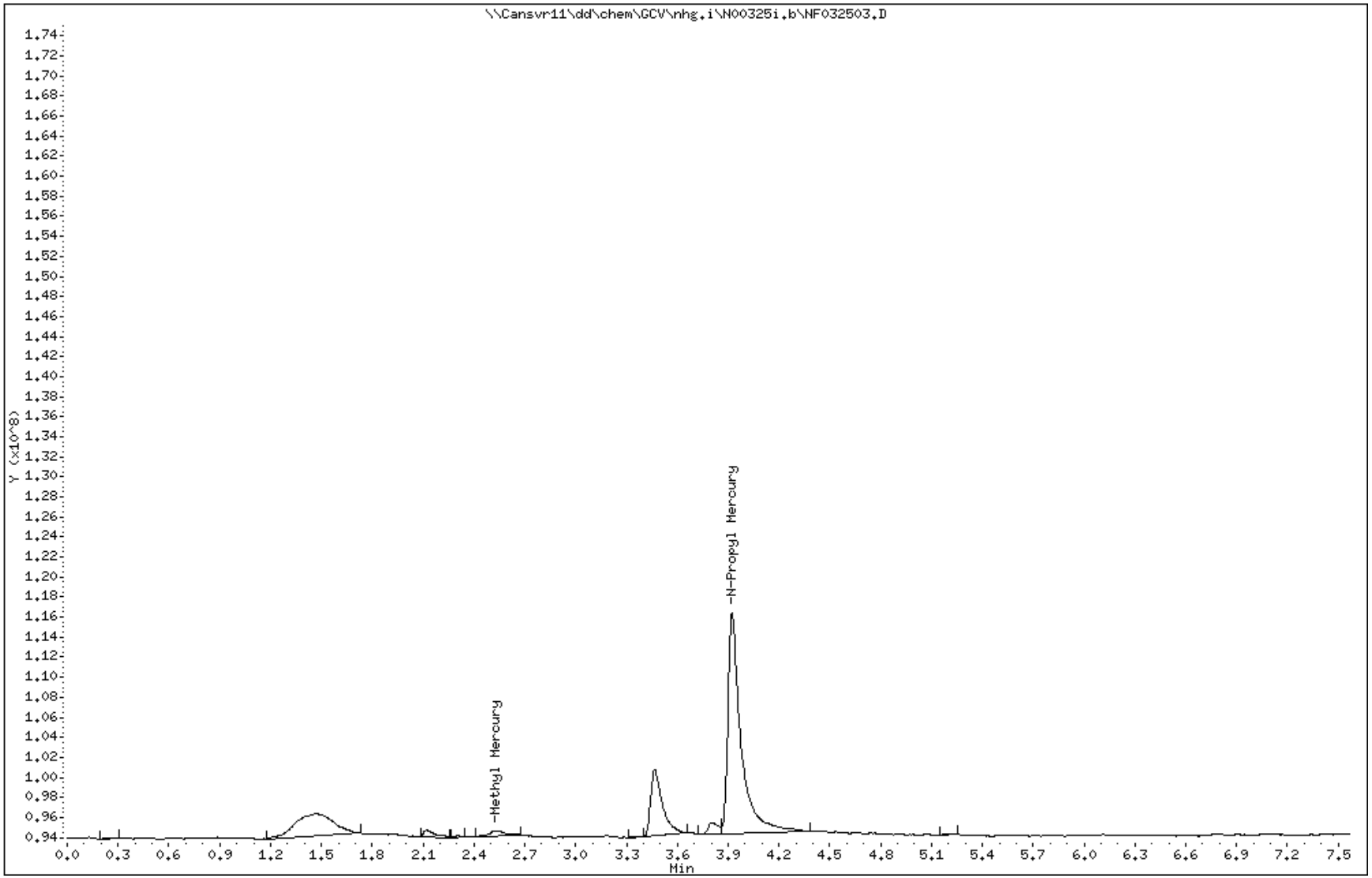
Instrument: nhg.i

Sample Info: ICAL1,,N00325i,1,,1,,,1,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



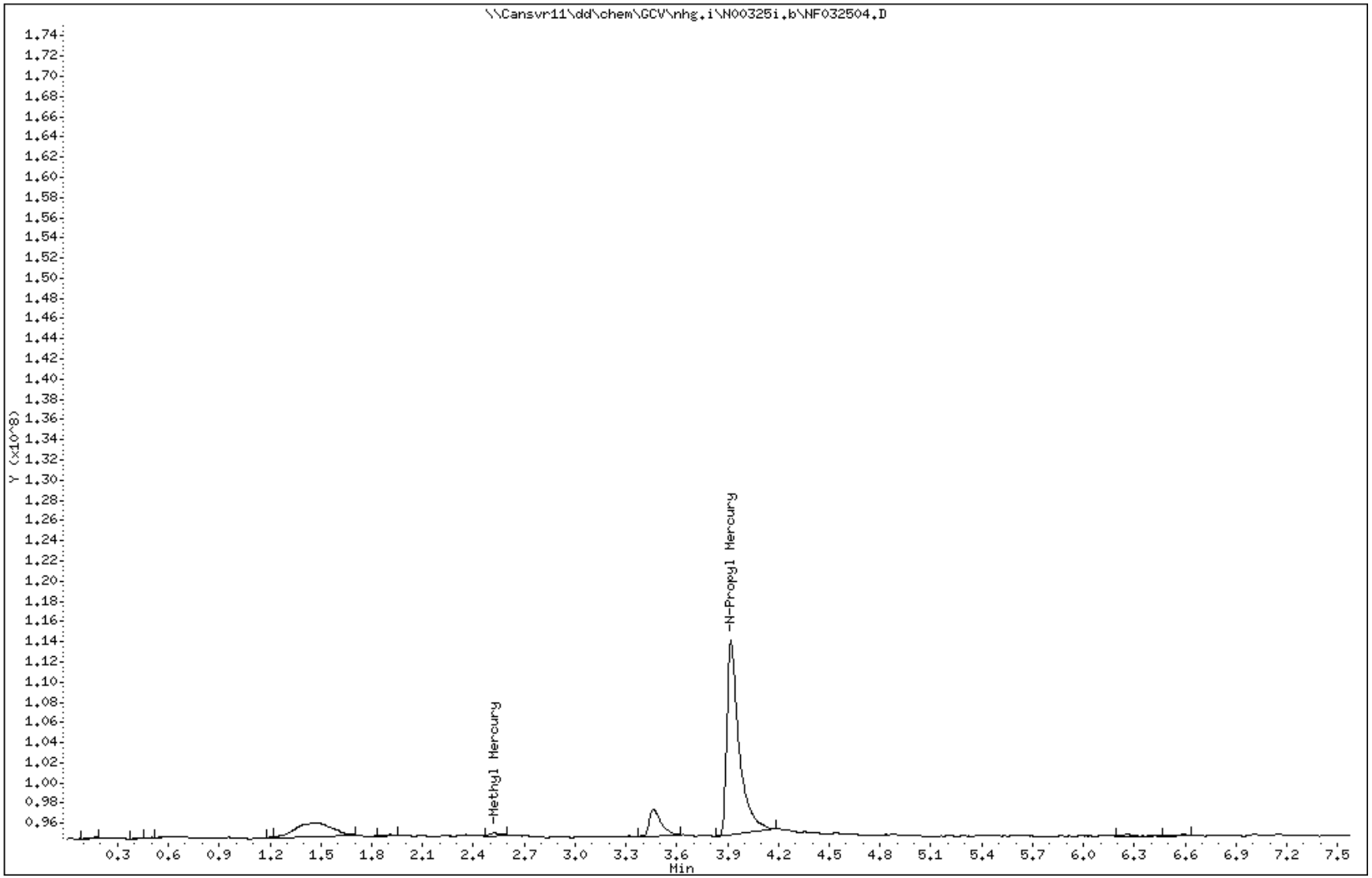
TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032504.D
Lab Smp Id: ICAL2
Inj Date : 25-MAR-2010 19:54
Operator : 402582 Inst ID: nhg.i
Smp Info : ICAL2,,N00325i,1,,1,,,2,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\N1630L.m
Meth Date : 25-Mar-2010 20:02 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 19:54 Cal File: NF032504.D
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.523	2.523	0.000	256662	0.00001	0.000
$ 2 N-Propyl Mercury	3.919	3.919	0.000	19203863	0.50000	0.000

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032504.D Page 1
Date : 25-MAR-2010 19:54
Client ID: Instrument: nhg.i
Sample Info: ICAL2,,N00325i,1,,1,,,2,,N1630L
Operator: 402582
Column phase: Column diameter: 2.00



TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032505.D
Lab Smp Id: ICAL3
Inj Date : 25-MAR-2010 20:15
Operator : 402582 Inst ID: nhg.i
Smp Info : ICAL3,,N00325i,1,,1,,,3,,N1630L
Misc Info :
Comment :
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Meth Date : 25-Mar-2010 20:23 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 20:15 Cal File: NF032505.D
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.526	2.526	0.000	461002	0.00001	0.000
$ 2 N-Propyl Mercury	3.919	3.919	0.000	19853984	0.50000	0.000

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032505.D

Page 1

Date : 25-MAR-2010 20:15

Client ID:

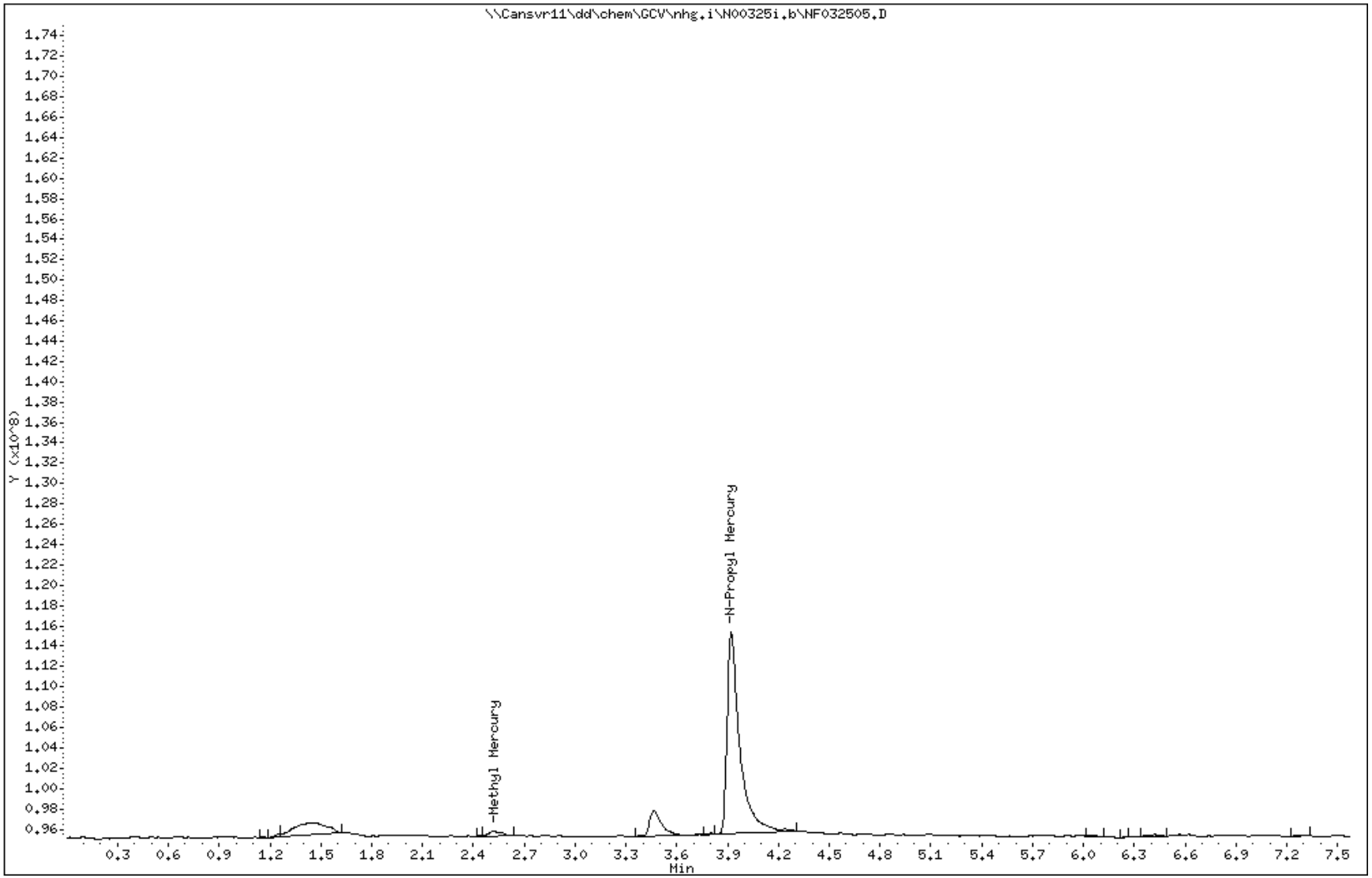
Instrument: nhg.i

Sample Info: ICAL3,,N00325i,1,,1,,,3,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032506.D
Lab Smp Id: ICAL4
Inj Date : 25-MAR-2010 20:36
Operator : 402582 Inst ID: nhg.i
Smp Info : ICAL4,,N00325i,1,,1,,,4,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\N1630L.m
Meth Date : 25-Mar-2010 20:44 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 20:36 Cal File: NF032506.D
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.529	2.529	0.000	1126029	0.02500	0.025
$ 2 N-Propyl Mercury	3.923	3.923	0.000	885805	0.02500	0.025

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032506.D

Page 1

Date : 25-MAR-2010 20:36

Client ID:

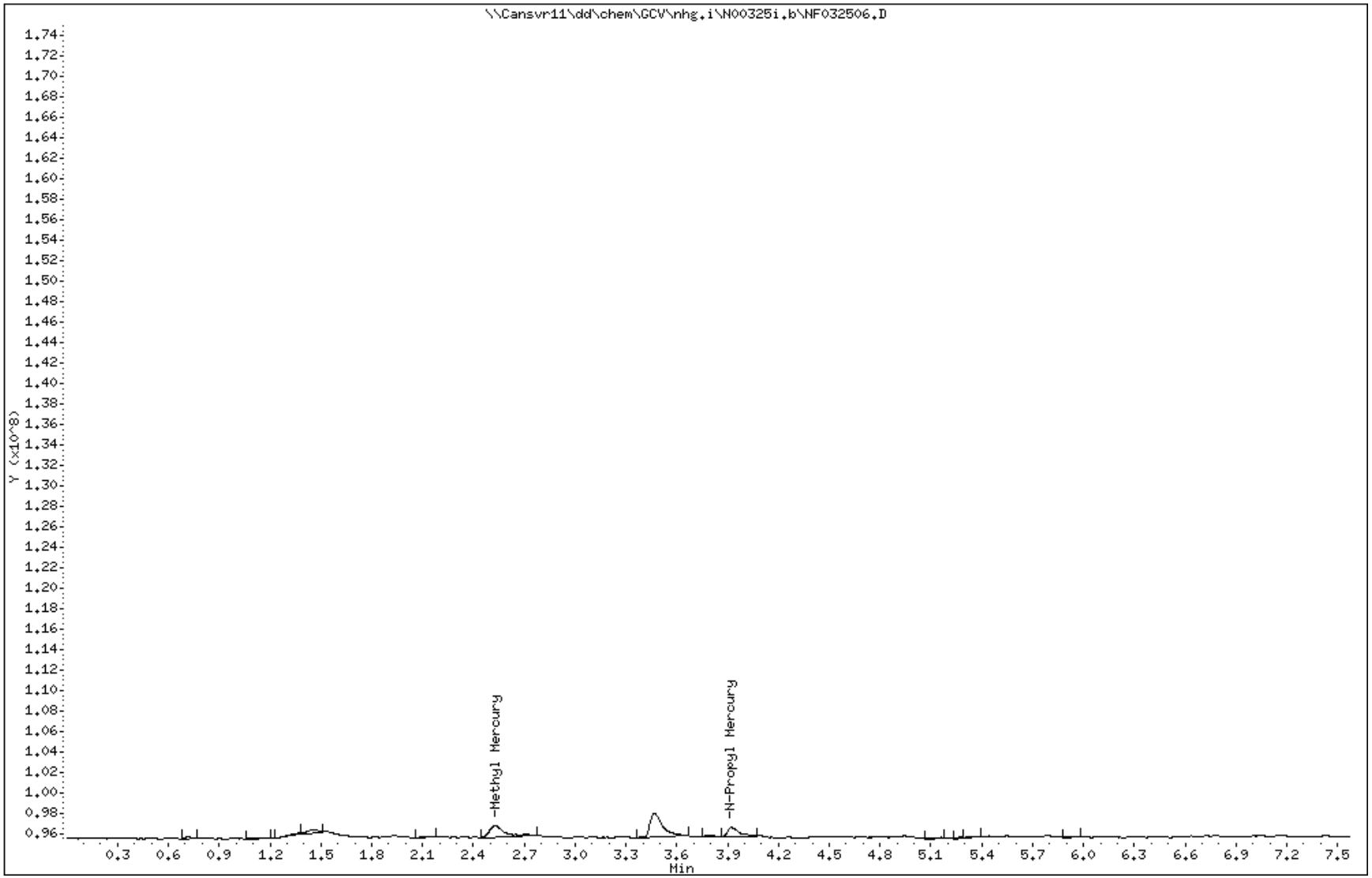
Instrument: nhg.i

Sample Info: ICAL4,,N00325i,1,,1,,,4,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032507.D
Lab Smp Id: ICAL5
Inj Date : 25-MAR-2010 20:58
Operator : 402582 Inst ID: nhg.i
Smp Info : ICAL5,,N00325i,1,,1,,,5,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\N1630L.m
Meth Date : 25-Mar-2010 21:06 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 20:58 Cal File: NF032507.D
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.530	2.530	0.000	2036546	0.05000	0.050
$ 2 N-Propyl Mercury	3.923	3.923	0.000	1812755	0.05000	0.050

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032507.D

Page 1

Date : 25-MAR-2010 20:58

Client ID:

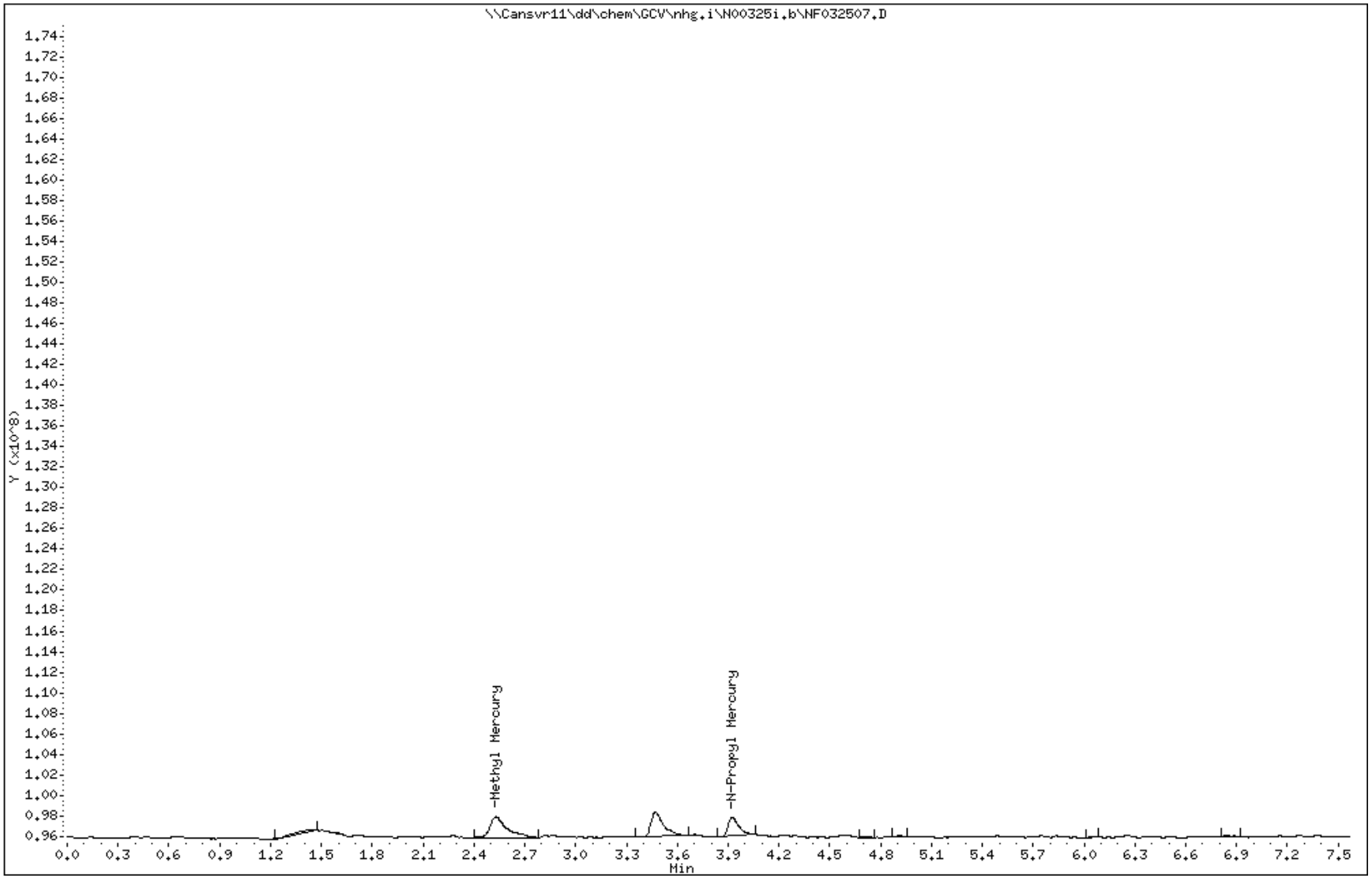
Instrument: nhg.i

Sample Info: ICAL5,,N00325i,1,,1,,,5,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032508.D
Lab Smp Id: ICAL6
Inj Date : 25-MAR-2010 21:19
Operator : 402582 Inst ID: nhg.i
Smp Info : ICAL6,,N00325i,1,,1,,,6,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\N1630L.m
Meth Date : 25-Mar-2010 21:27 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 21:19 Cal File: NF032508.D
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.523	2.523	0.000	3194161	0.10000	0.088
$ 2 N-Propyl Mercury	3.923	3.923	0.000	3692394	0.10000	0.100

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032508.D

Page 1

Date : 25-MAR-2010 21:19

Client ID:

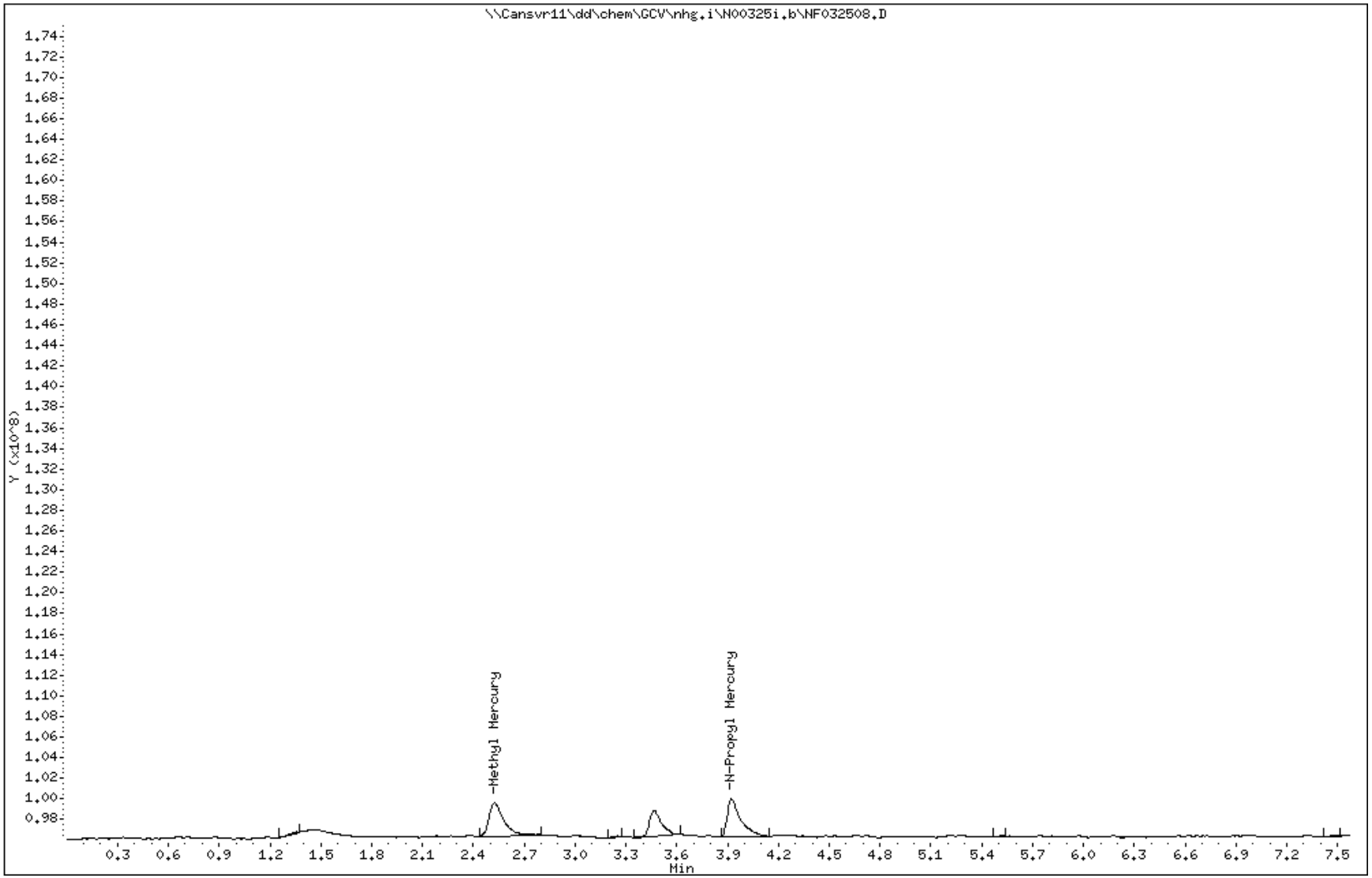
Instrument: nhg.i

Sample Info: ICAL6,,N00325i,1,,1,,,6,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032509.D
Lab Smp Id: ICAL7
Inj Date : 25-MAR-2010 21:40
Operator : 402582 Inst ID: nhg.i
Smp Info : ICAL7,,N00325i,1,,1,,,7,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\N1630L.m
Meth Date : 25-Mar-2010 21:48 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 21:40 Cal File: NF032509.D
Als bottle: 1 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.526	2.526	0.000	6110267	0.20000	0.199
$ 2 N-Propyl Mercury	3.923	3.923	0.000	7046036	0.20000	0.198

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032509.D

Page 1

Date : 25-MAR-2010 21:40

Client ID:

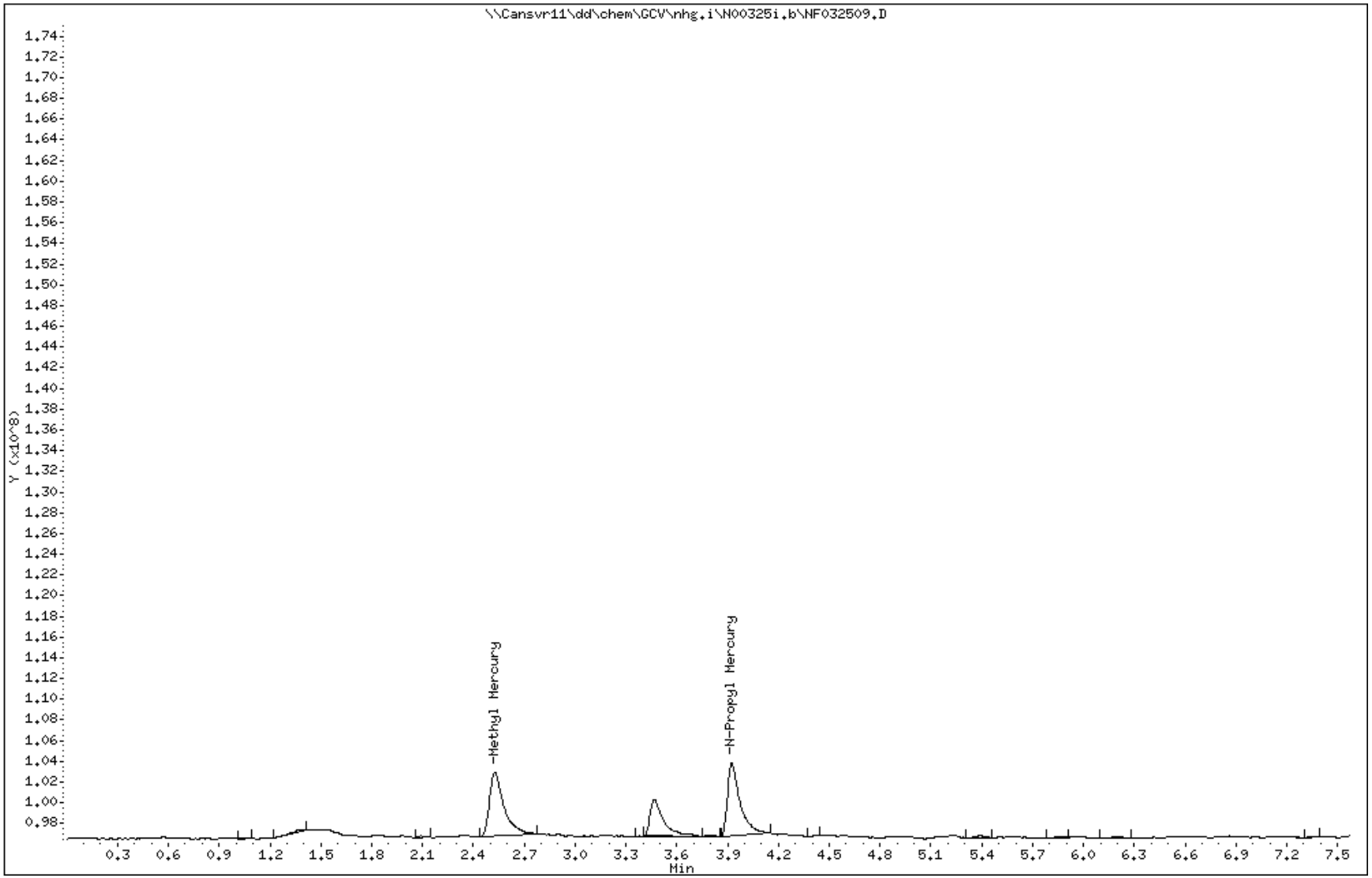
Instrument: nhg.i

Sample Info: ICAL7,,N00325i,1,,1,,,7,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032510.D
Lab Smp Id: ICAL8
Inj Date : 25-MAR-2010 22:02
Operator : 402582 Inst ID: nhg.i
Smp Info : ICAL8,,N00325i,1,,1,,,8,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\N1630L.m
Meth Date : 25-Mar-2010 22:10 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 22:02 Cal File: NF032510.D
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.523	2.523	0.000	14492322	0.50000	0.500
$ 2 N-Propyl Mercury	3.926	3.926	0.000	18759544	0.50000	0.500

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032510.D

Page 1

Date : 25-MAR-2010 22:02

Client ID:

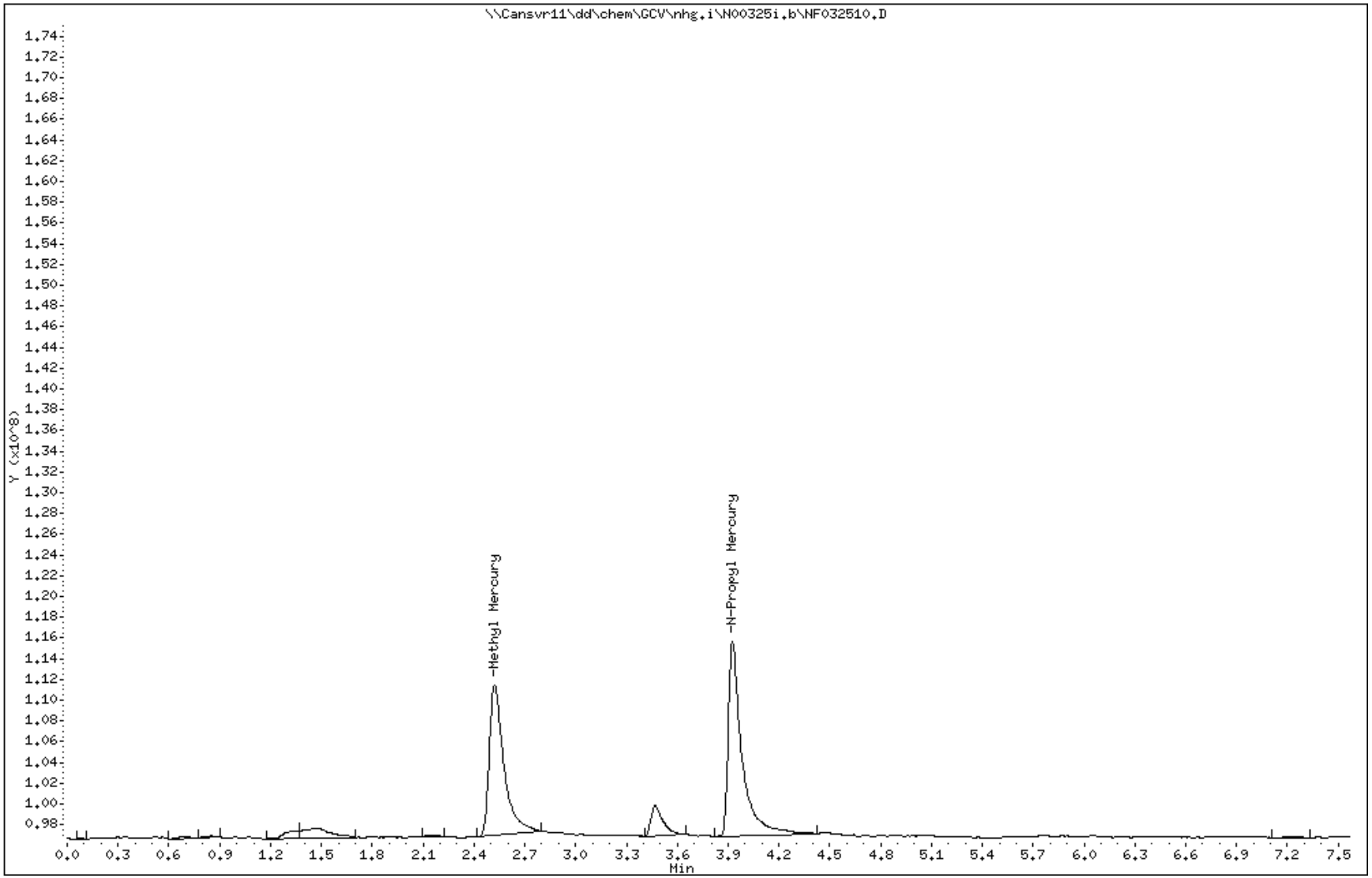
Instrument: nhg.i

Sample Info: ICAL8,,N00325i,1,,1,,,8,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032511.D
Lab Smp Id: ICAL9
Inj Date : 25-MAR-2010 22:23
Operator : 402582 Inst ID: nhg.i
Smp Info : ICAL9,,N00325i,1,,1,,,9,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\N1630L.m
Meth Date : 25-Mar-2010 22:31 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 22:23 Cal File: NF032511.D
Als bottle: 1 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.526	2.526	0.000	29945098	1.00000	1.055
$ 2 N-Propyl Mercury	3.926	3.926	0.000	39095155	1.00000	1.006

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032511.D

Page 1

Date : 25-MAR-2010 22:23

Client ID:

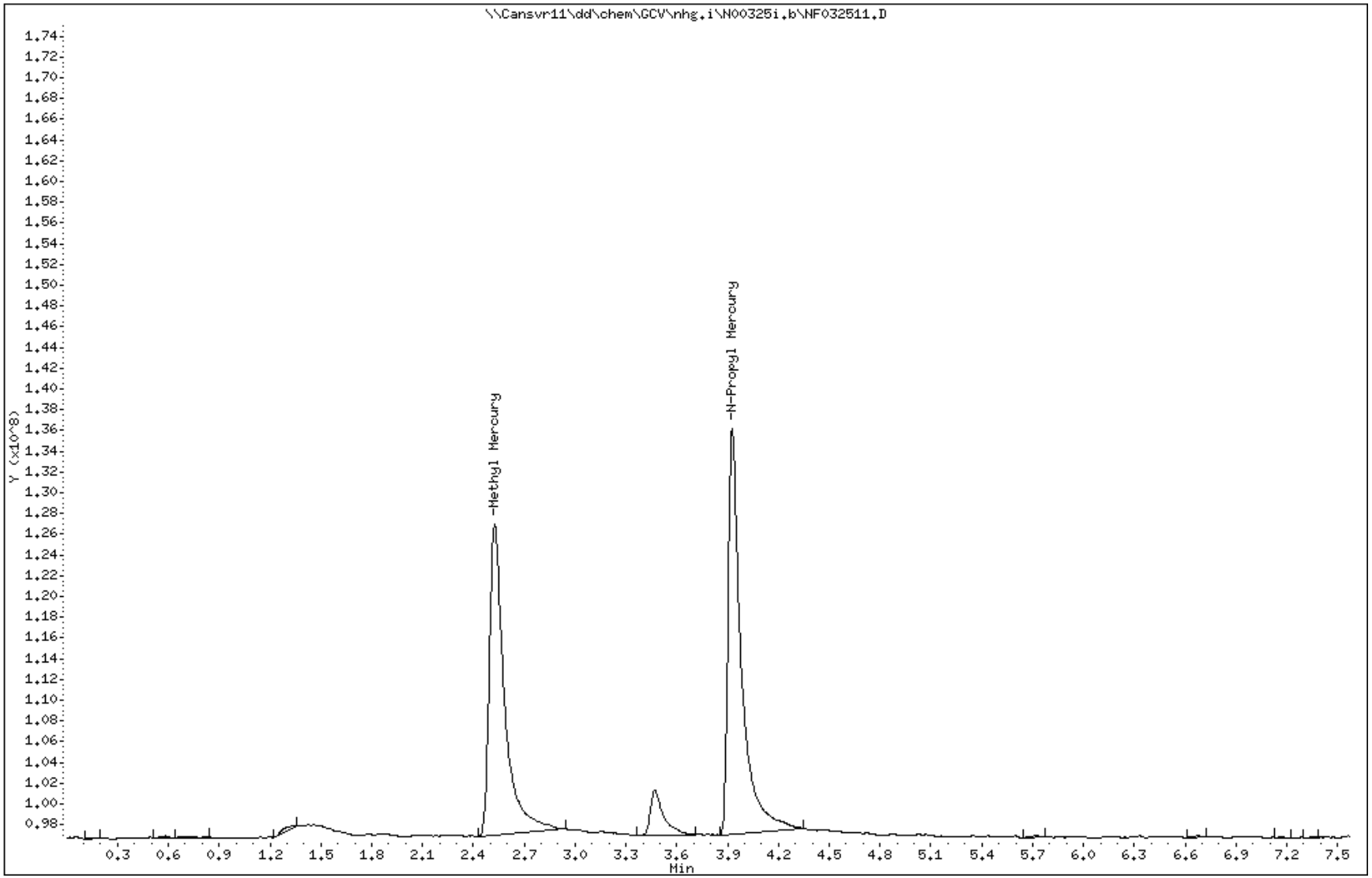
Instrument: nhg.i

Sample Info: ICAL9,,N00325i,1,,1,,,9,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032512.D
Lab Smp Id: ICAL10
Inj Date : 25-MAR-2010 22:45
Operator : 402582 Inst ID: nhg.i
Smp Info : ICAL10,,N00325i,1,,1,,,10,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\N1630L.m
Meth Date : 25-Mar-2010 22:52 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 22:45 Cal File: NF032512.D
Als bottle: 1 Calibration Sample, Level: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

						AMOUNTS	
						CAL-AMT	ON-COL
	Compounds	RT	EXP RT	DLT RT	RESPONSE	(ng/L)	(ng/L)
	1 Methyl Mercury	2.523	2.523	0.000	61794172	2.00000	2.200
$	2 N-Propyl Mercury	3.926	3.926	0.000	81622205	2.00000	2.014

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032512.D

Page 1

Date : 25-MAR-2010 22:45

Client ID:

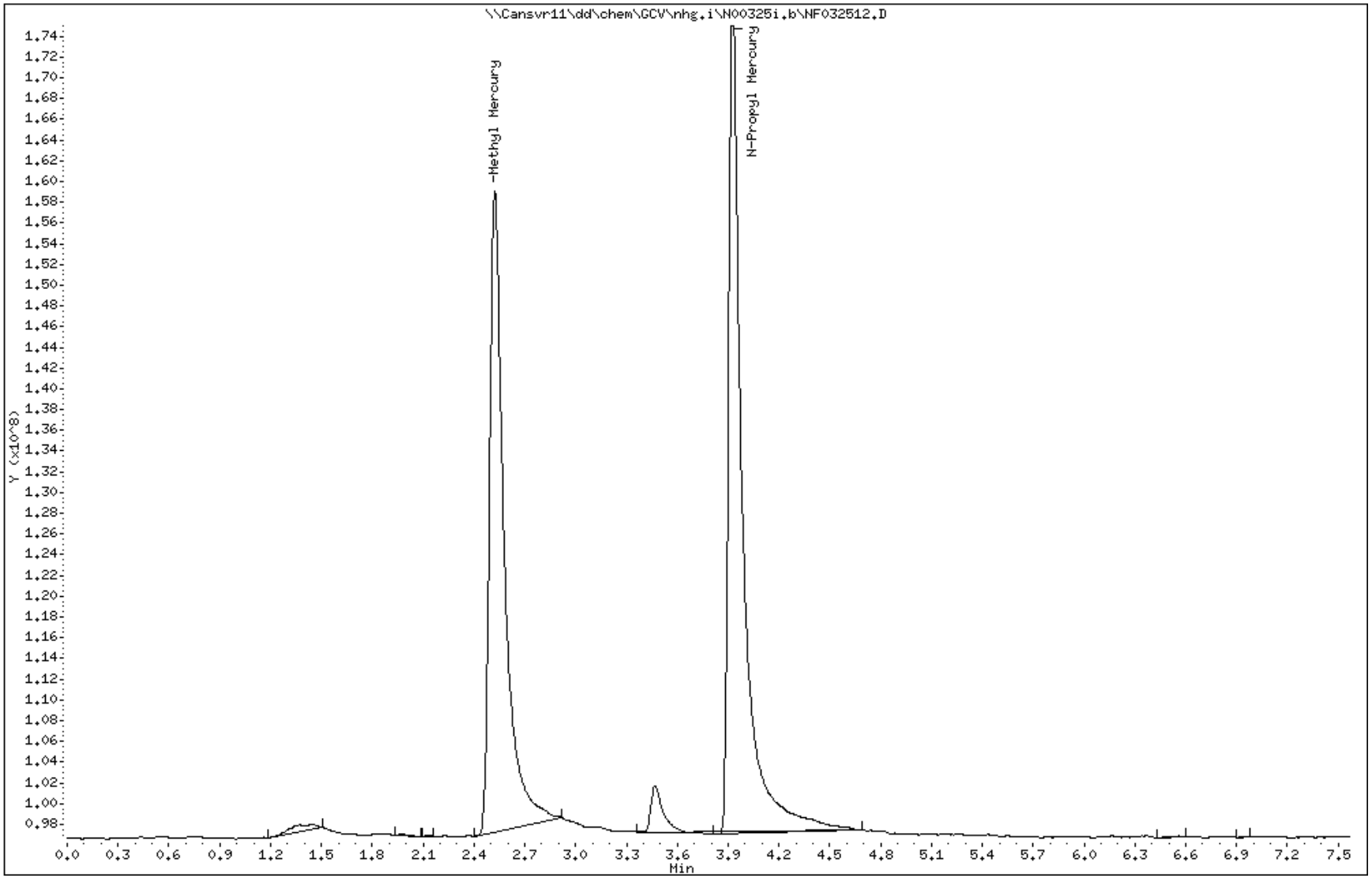
Instrument: nhg.i

Sample Info: ICAL10,,N00325i,1,,1,,,10,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032513.D
Lab Smp Id: ICAL11
Inj Date : 25-MAR-2010 23:06
Operator : 402582 Inst ID: nhg.i
Smp Info : ICAL11,,N00325i,1,,1,,,11,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\N1630L.m
Meth Date : 25-Mar-2010 23:14 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 Calibration Sample, Level: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.510	2.510	0.000	125718812	4.00000	4.499
$ 2 N-Propyl Mercury	3.920	3.920	0.000	161677683	4.00000	3.993

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032513.D

Page 1

Date : 25-MAR-2010 23:06

Client ID:

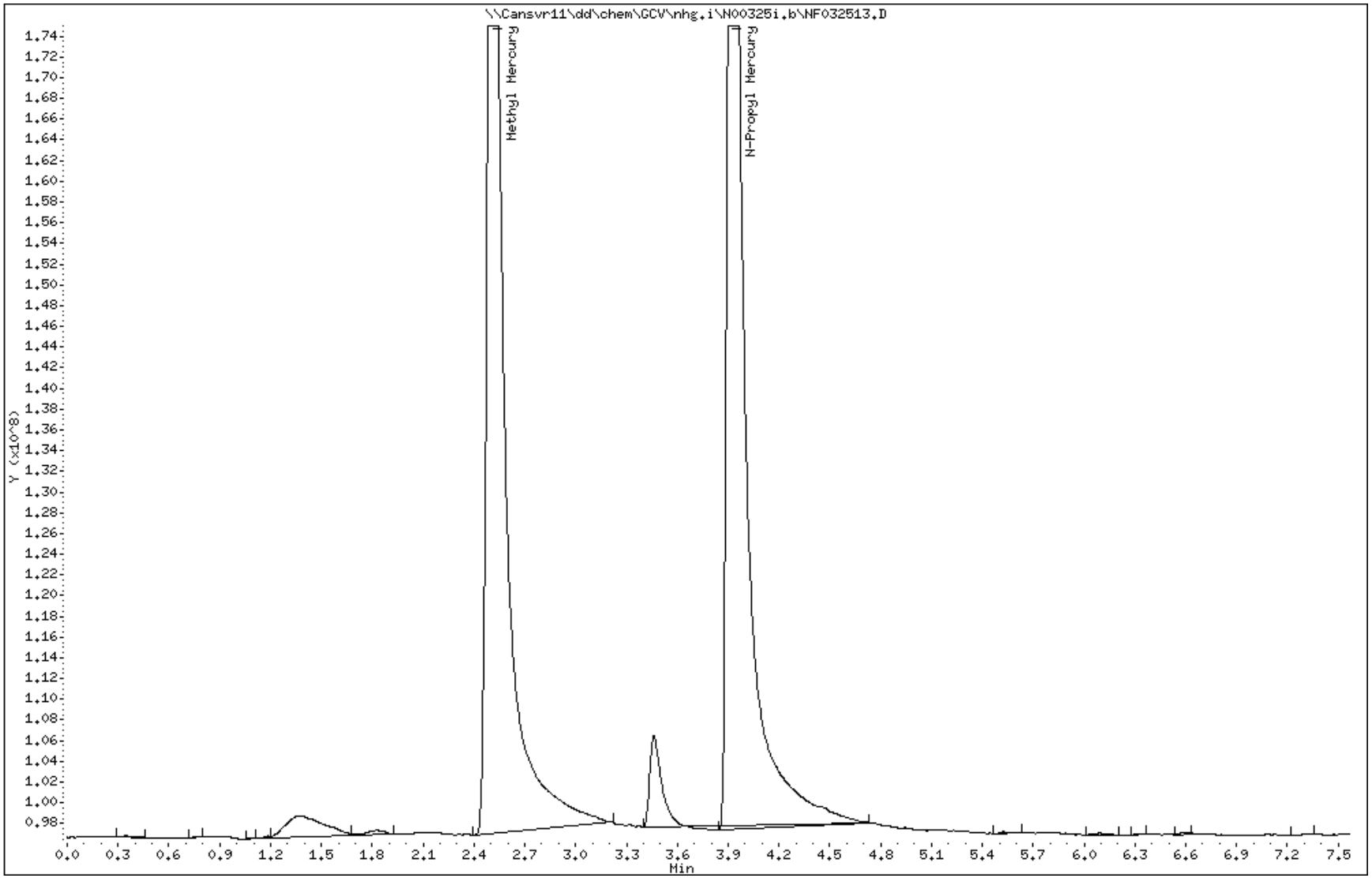
Instrument: nhg.i

Sample Info: ICAL11,,N00325i,1,,1,,,11,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N325I.B/NF032514.D
Report Date: 05/07/2010

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: nhg.i Injection Date: 25-MAR-2010 23:27
Lab File ID: NF032514.D Lab Sample ID: ICV
Analysis Type: WATER Method File: \\Cansvr11\dd\chem\GCV\nhg.i\N325I.B\N1630L

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 Methyl Mercury	0.5000	0.5079	1.6	31.0
3 N-Propyl Mercury	0.5000	0.5271	5.4	33.0

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N325I.B\NF032514.D
Lab Smp Id: ICV
Inj Date : 25-MAR-2010 23:27
Operator : 402582 Inst ID: nhg.i
Smp Info : ICV,,N00325i,1,,3,ICV,1,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N325I.B\N1630L.m
Meth Date : 07-May-2010 09:49 nhg.i Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.536	2.536	0.000	14706220	0.50000	0.507
$ 2 N-Propyl Mercury	3.926	3.926	0.000	20617820	0.50000	0.527

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N325I.B\NF032514.D

Page 1

Date : 25-MAR-2010 23:27

Client ID:

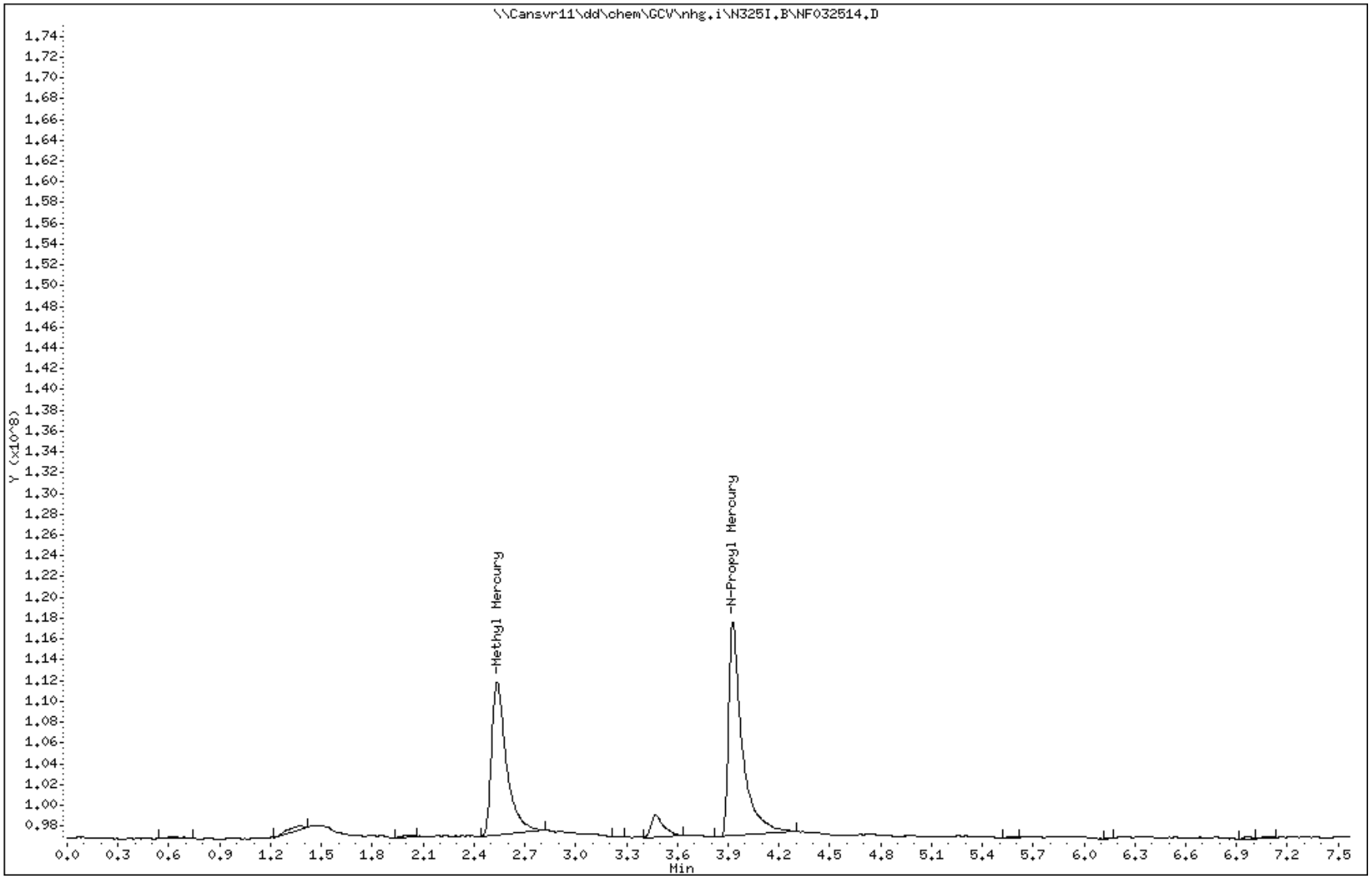
Instrument: nhg.i

Sample Info: ICV,,N00325i,1,,3,ICV,1,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032515.D
Lab Smp Id: ICB
Inj Date : 25-MAR-2010 23:49
Operator : 402582 Inst ID: nhg.i
Smp Info : ICB,,N00325i,1,,3,INSTBLANK,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\N1630L.m
Meth Date : 26-Mar-2010 08:44 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ng/L)
1 Methyl Mercury	2.536	2.510	0.026	516649		
$ 2 N-Propyl Mercury	3.926	3.920	0.006	20918856	0.53454	0.534

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032515.D

Page 1

Date : 25-MAR-2010 23:49

Client ID:

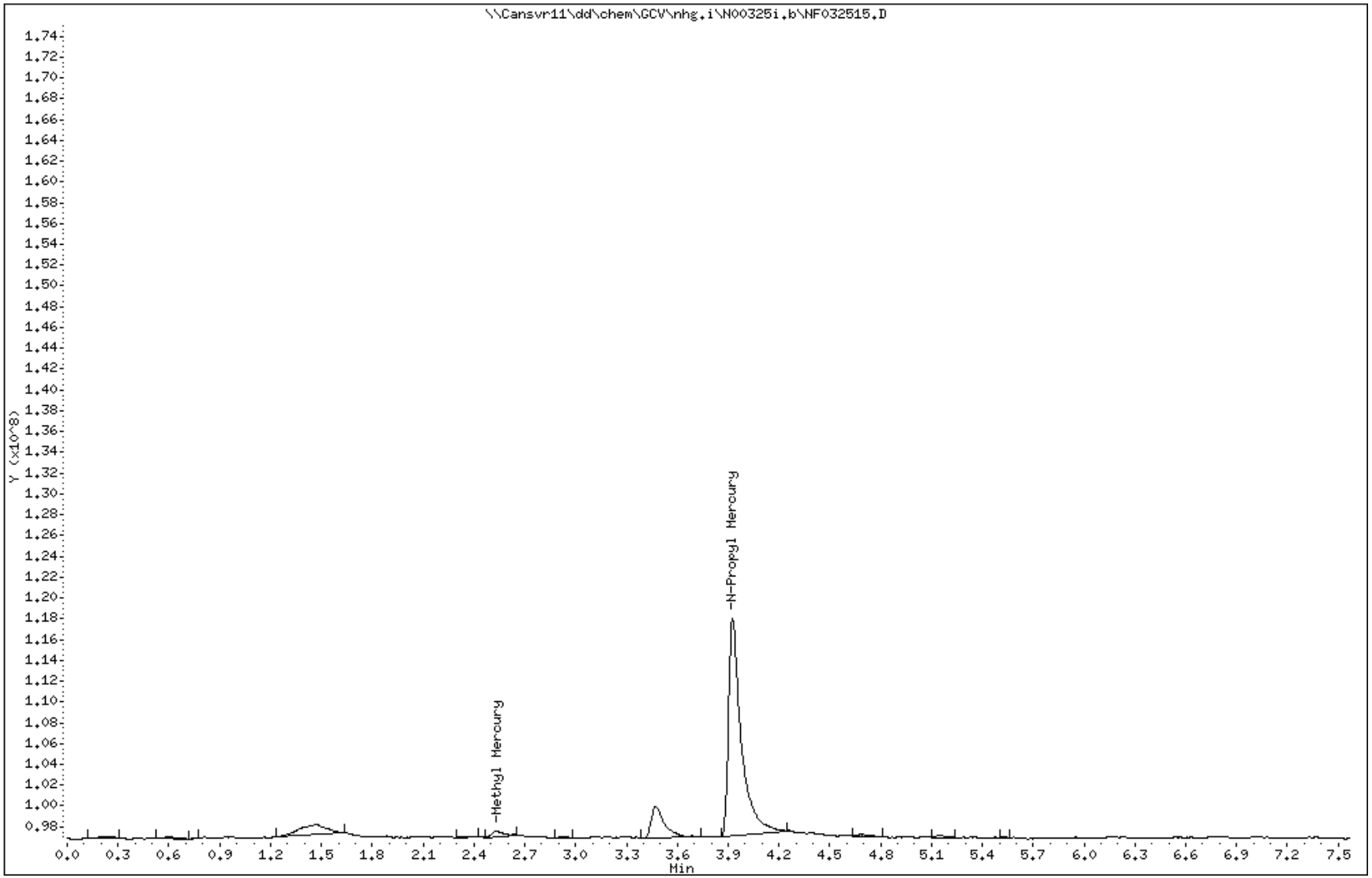
Instrument: nhg.i

Sample Info: ICB,,N00325i,1,,3,INSTBLANK,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N325I.B/NF032506.D
Report Date: 05/07/2010

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: nhg.i Injection Date: 25-MAR-2010 20:36
Lab File ID: NF032506.D Lab Sample ID: ICAL4
Analysis Type: WATER Method File: \\Cansvr11\dd\chem\GCV\nhg.i\N325I.B\N1630L

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D	
1 Methyl Mercury	0.0250	0.0196	21.4	33.0	
3 N-Propyl Mercury	0.0250	0.0422	68.9	33.0	<-

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N325I.B\NF032506.D
Lab Smp Id: ICAL4
Inj Date : 25-MAR-2010 20:36
Operator : 402582 Inst ID: nhg.i
Smp Info : ICAL4,,N00325i,1,,1,,,4,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N325I.B\N1630L.m
Meth Date : 07-May-2010 10:19 nhg.i Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.529	2.529	0.000	1126029	0.02500	0.019
$ 2 N-Propyl Mercury	3.923	3.923	0.000	885805	0.02500	0.042

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N325I.B\NF032506.D

Page 1

Date : 25-MAR-2010 20:36

Client ID:

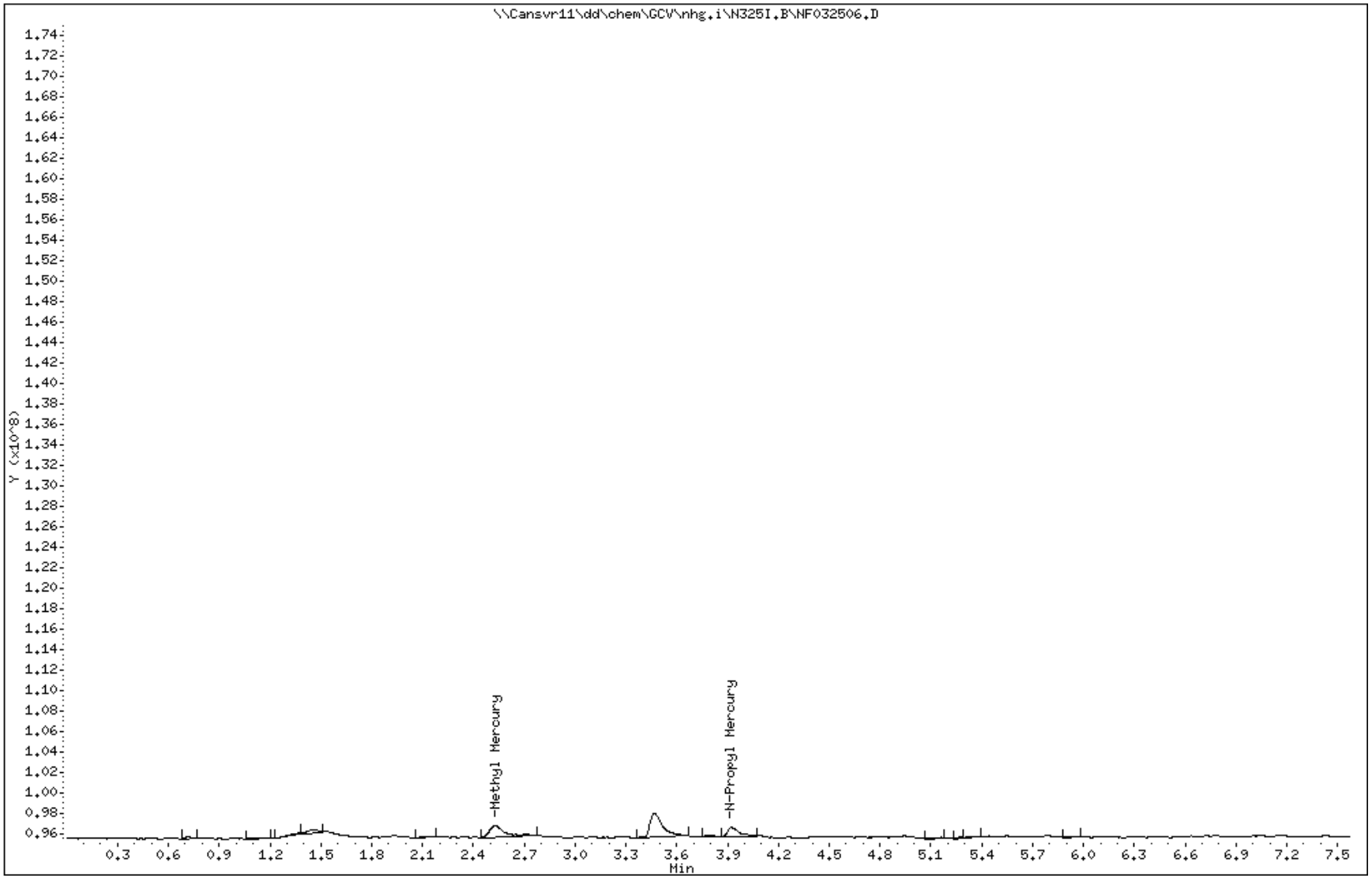
Instrument: nhg.i

Sample Info: ICAL4,,N00325i,1,,1,,,4,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N325I.B/NF032507.D
Report Date: 05/07/2010

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: nhg.i Injection Date: 25-MAR-2010 20:58
Lab File ID: NF032507.D Lab Sample ID: ICAL5
Analysis Type: WATER Method File: \\Cansvr11\dd\chem\GCV\nhg.i\N325I.B\N1630L

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 Methyl Mercury	0.0500	0.0524	4.8	33.0
3 N-Propyl Mercury	0.0500	0.0650	30.0	33.0

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N325I.B\NF032507.D
Lab Smp Id: ICAL5
Inj Date : 25-MAR-2010 20:58
Operator : 402582 Inst ID: nhg.i
Smp Info : ICAL5,,N00325i,1,,1,,,5,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N325I.B\N1630L.m
Meth Date : 07-May-2010 10:20 nhg.i Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.530	2.530	0.000	2036546	0.05000	0.052
$ 2 N-Propyl Mercury	3.923	3.923	0.000	1812755	0.05000	0.065

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N325I.B\NF032507.D

Date : 25-MAR-2010 20:58

Client ID:

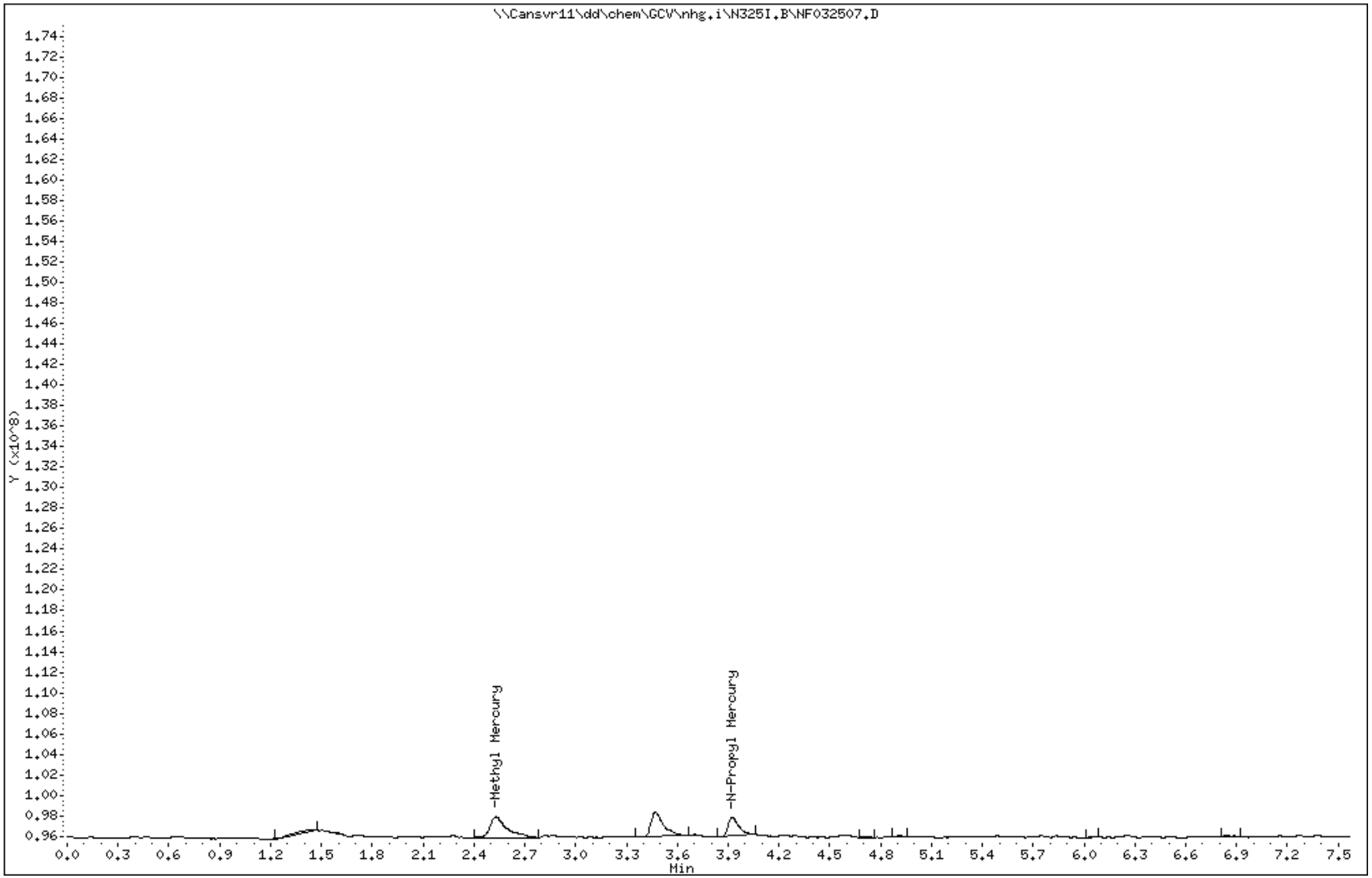
Instrument: nhg.i

Sample Info: ICAL5,,N00325i,1,,1,,,5,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



Calibration History

Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Start Cal Date: 25-MAR-2010 19:32
End Cal Date : 25-MAR-2010 23:06
Last Cal Level: 11
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00001		
25-MAR-2010 19:32	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032503.D
Cal Level: 2 , Cal Amount: 0.00001		
25-MAR-2010 19:54	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032504.D
Cal Level: 3 , Cal Amount: 0.00001		
25-MAR-2010 20:15	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032505.D
Cal Level: 4 , Cal Amount: 0.02500		
25-MAR-2010 20:36	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032506.D
Cal Level: 5 , Cal Amount: 0.05000		
25-MAR-2010 20:58	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032507.D
Cal Level: 6 , Cal Amount: 0.10000		
25-MAR-2010 21:19	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032508.D
Cal Level: 7 , Cal Amount: 0.20000		
25-MAR-2010 21:40	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032509.D
Cal Level: 8 , Cal Amount: 0.50000		

25-MAR-2010 22:02	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032510.D

Cal Level: 9 , Cal Amount: 1.00000

25-MAR-2010 22:23	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032511.D

Cal Level: 10, Cal Amount: 2.00000

25-MAR-2010 22:45	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032512.D

Cal Level: 11, Cal Amount: 4.00000

25-MAR-2010 23:06	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032513.D

Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 8

29-MAY-2010 01:16	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052787.D
28-MAY-2010 17:04	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052765.D
28-MAY-2010 05:51	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052734.D
27-MAY-2010 18:34	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052703.D

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b/NF052703.D
Report Date: 05/27/2010

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: nhg.i Injection Date: 27-MAY-2010 18:34
Lab File ID: NF052703.D Lab Sample ID: CCV
Analysis Type: WATER Method File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 Methyl Mercury	0.5000	0.4492	10.2	33.0
3 N-Propyl Mercury	0.5000	0.4894	2.1	33.0

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052703.D
Lab Smp Id: CCV
Inj Date : 27-MAY-2010 18:34
Operator : 402582 Inst ID: nhg.i
Smp Info : CCV,,N00527,1,,2,METHSPIKE,1,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 27-May-2010 18:42 Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.093	2.093	0.000	13074477	0.50000	0.449
$ 2 N-Propyl Mercury	3.903	3.903	0.000	19083537	0.50000	0.489

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052703.D

Page 1

Date : 27-MAY-2010 18:34

Client ID:

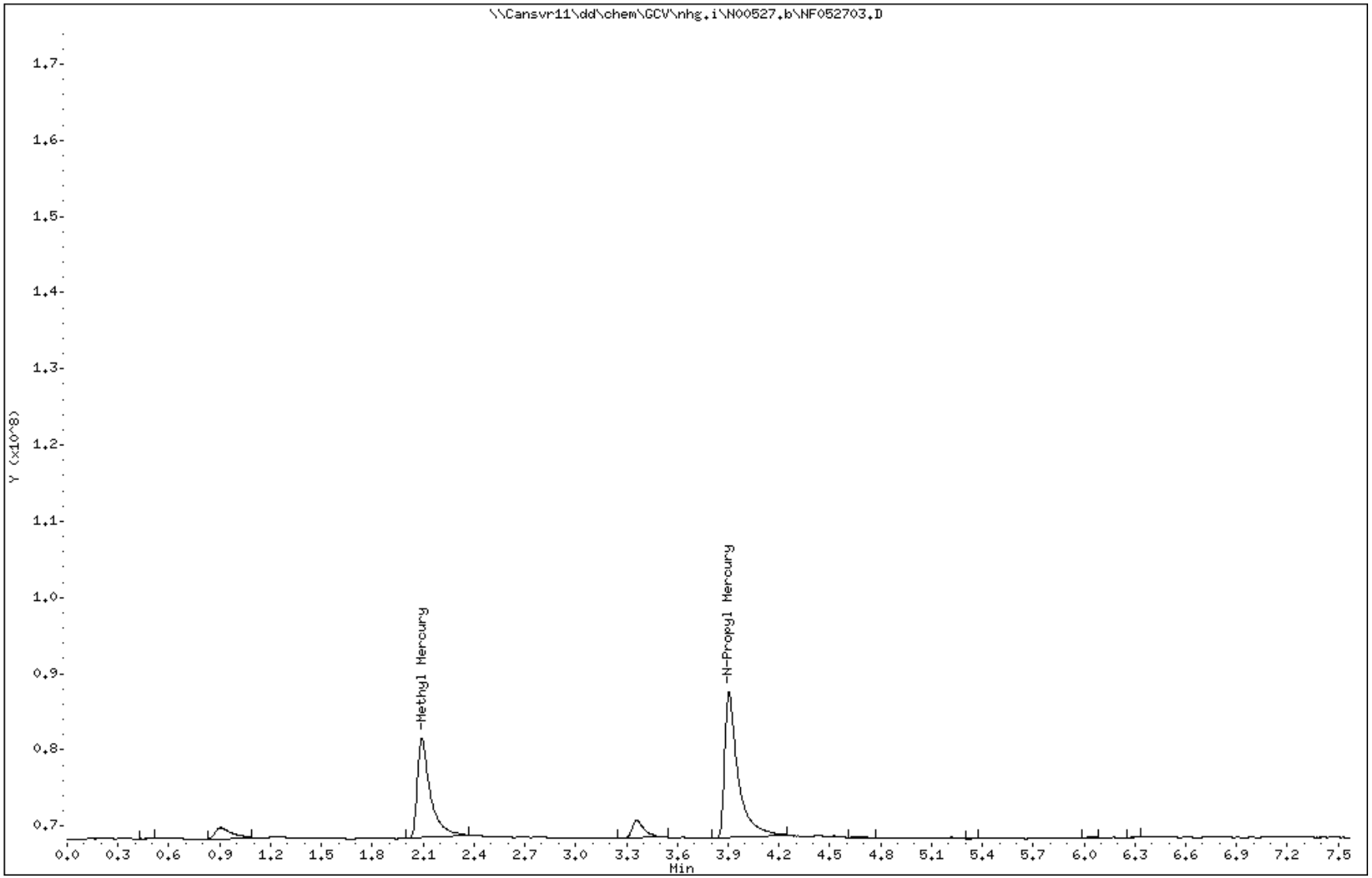
Instrument: nhg.i

Sample Info: CCV,,N00527,1,,2,METHSPIKE,1,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052704.D
Lab Smp Id: CCB
Inj Date : 27-MAY-2010 18:56
Operator : 402582 Inst ID: nhg.i
Smp Info : CCB,,N00527,1,,3,INSTBLANK,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 28-May-2010 05:59 Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ng/L)
1 Methyl Mercury	Compound Not Detected.					
$ 2 N-Propyl Mercury	3.899	3.866	0.033	18644494	0.47865	0.478

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052704.D

Page 1

Date : 27-MAY-2010 18:56

Client ID:

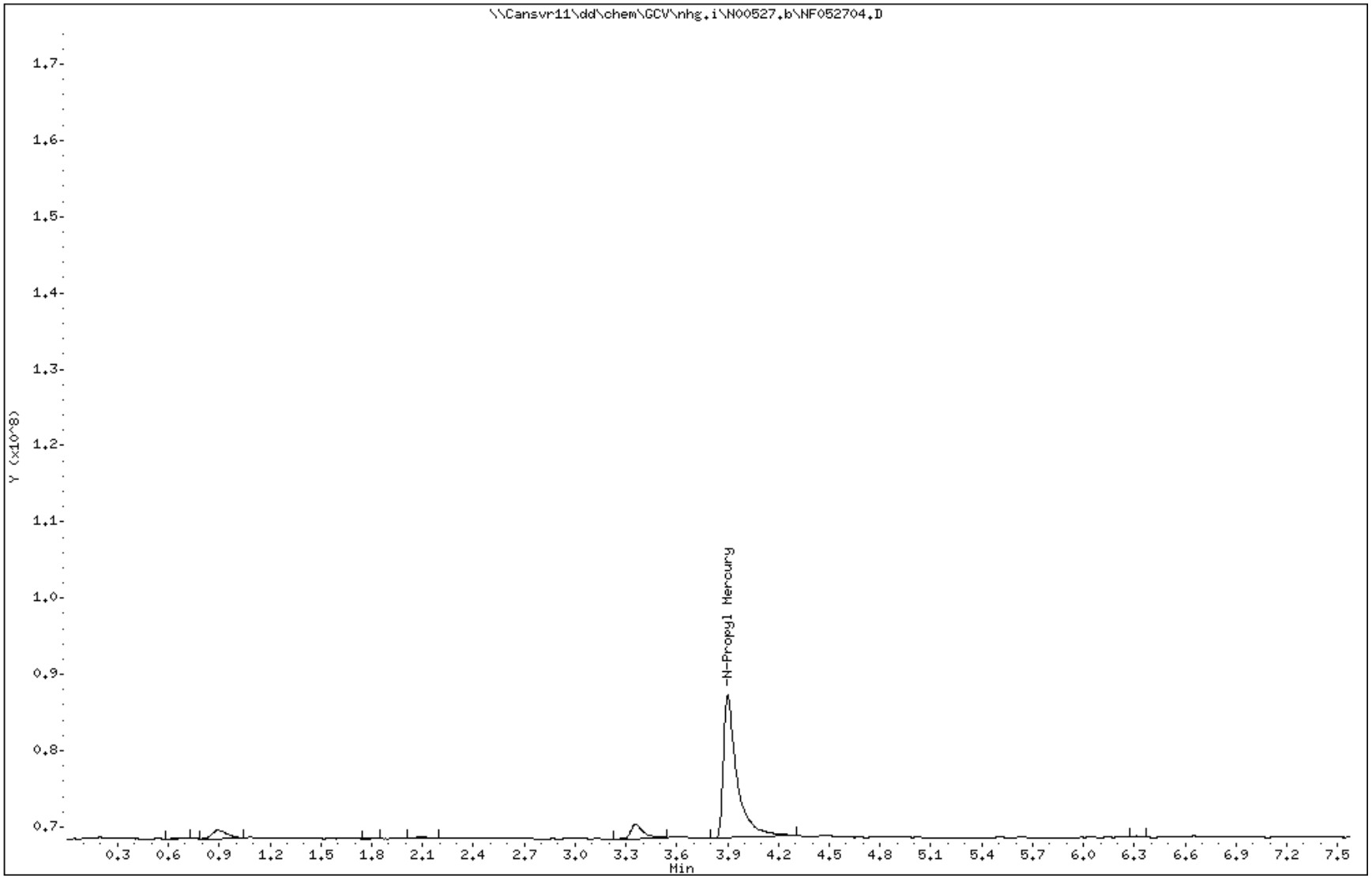
Instrument: nhg.i

Sample Info: CCB,,N00527,1,,3,INSTBLANK,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b/NF052734.D
Report Date: 05/28/2010

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: nhg.i Injection Date: 28-MAY-2010 05:51
Lab File ID: NF052734.D Lab Sample ID: CCV
Analysis Type: WATER Method File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 Methyl Mercury	0.5000	0.4495	10.1	33.0
3 N-Propyl Mercury	0.5000	0.4430	11.4	33.0

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052734.D
Lab Smp Id: CCV
Inj Date : 28-MAY-2010 05:51
Operator : 402582 Inst ID: nhg.i
Smp Info : CCV,,N00527,1,,2,METHSPIKE,1,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 28-May-2010 05:59 Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.016	2.016	0.000	13081257	0.50000	0.449
$ 2 N-Propyl Mercury	3.866	3.866	0.000	17194425	0.50000	0.443

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052734.D

Page 1

Date : 28-MAY-2010 05:51

Client ID:

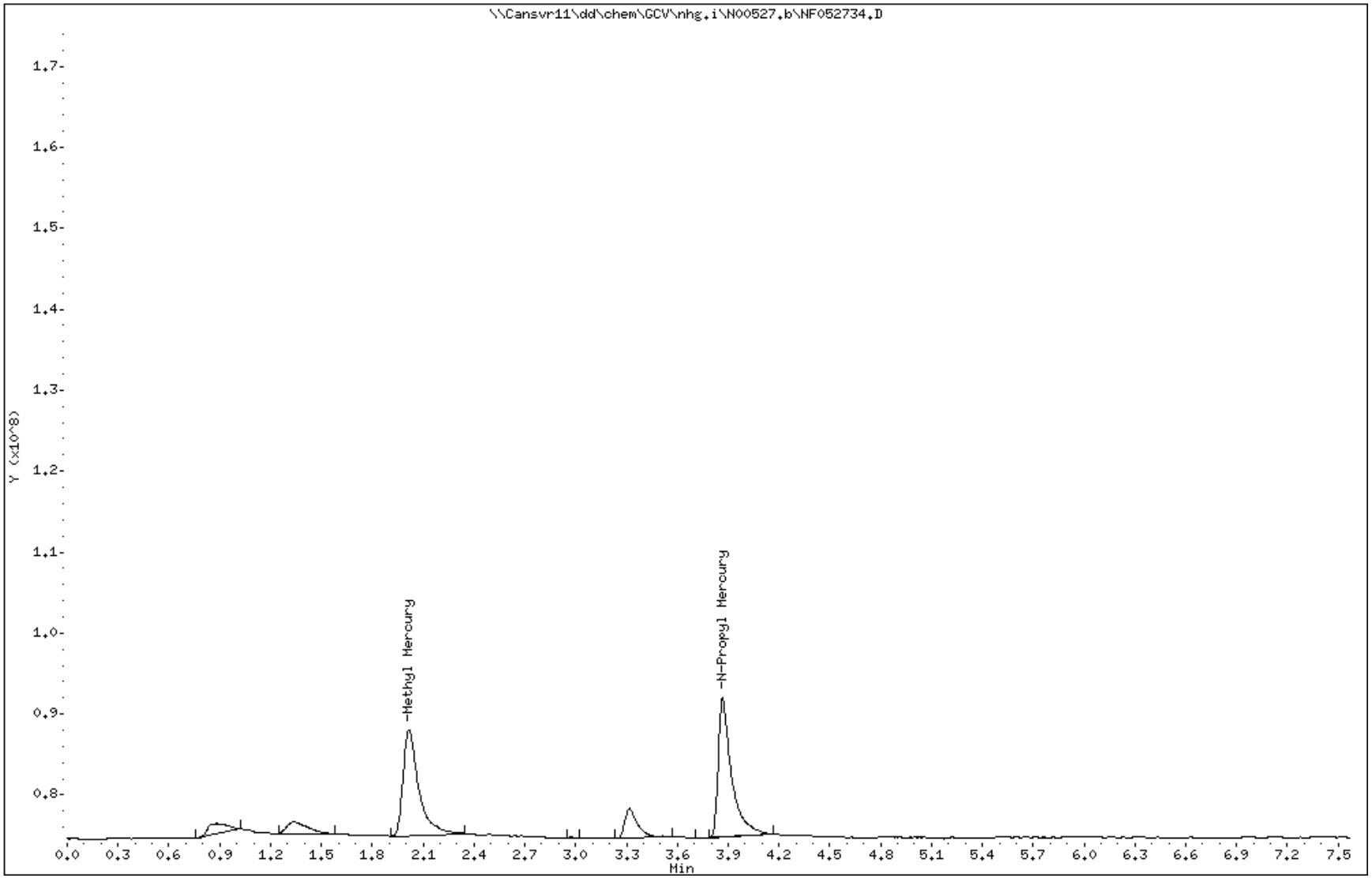
Instrument: nhg.i

Sample Info: CCV,,N00527,1,,2,METHSPIKE,1,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052735.D
Lab Smp Id: CCB
Inj Date : 28-MAY-2010 06:12
Operator : 402582 Inst ID: nhg.i
Smp Info : CCB,,N00527,1,,3,INSTBLANK,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 28-May-2010 05:59 Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ng/L)
1 Methyl Mercury	Compound Not Detected.					
$ 2 N-Propyl Mercury	3.866	3.866	0.000	17663036	0.45453	0.454

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052735.D

Page 1

Date : 28-MAY-2010 06:12

Client ID:

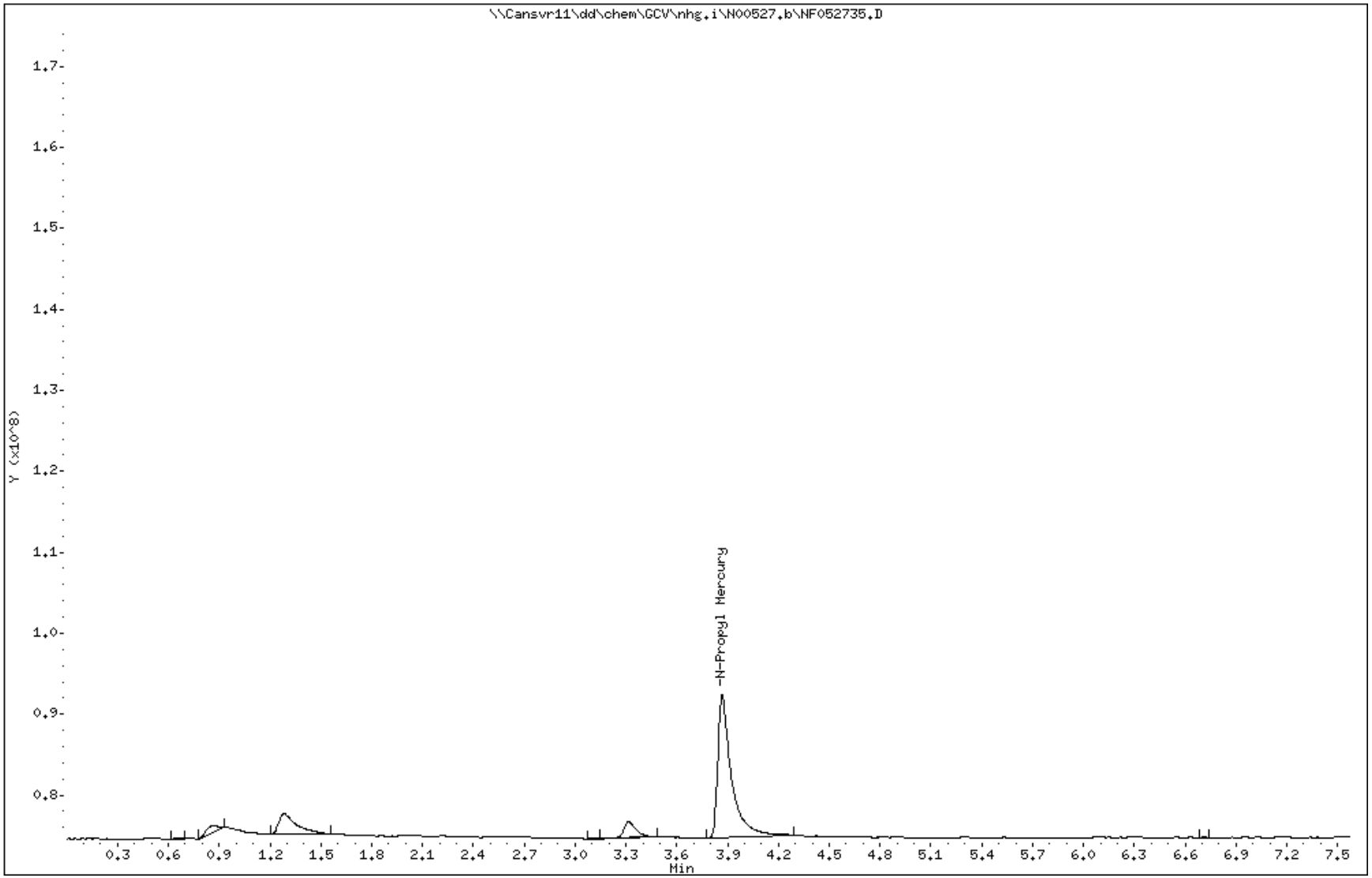
Instrument: nhg.i

Sample Info: CCB,,N00527,1,,3,INSTBLANK,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b/NF052765.D
Report Date: 05/28/2010

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: nhg.i Injection Date: 28-MAY-2010 17:04
Lab File ID: NF052765.D Lab Sample ID: CCV
Analysis Type: WATER Method File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 Methyl Mercury	0.5000	0.5026	0.5	33.0
3 N-Propyl Mercury	0.5000	0.4502	10.0	33.0

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052765.D
Lab Smp Id: CCV
Inj Date : 28-MAY-2010 17:04
Operator : 402582 Inst ID: nhg.i
Smp Info : CCV,,N00527,1,,2,METHSPIKE,1,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 28-May-2010 17:12 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.020	2.020	0.000	14557426	0.50000	0.502
$ 2 N-Propyl Mercury	3.873	3.873	0.000	17488529	0.50000	0.450

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052765.D

Page 1

Date : 28-MAY-2010 17:04

Client ID:

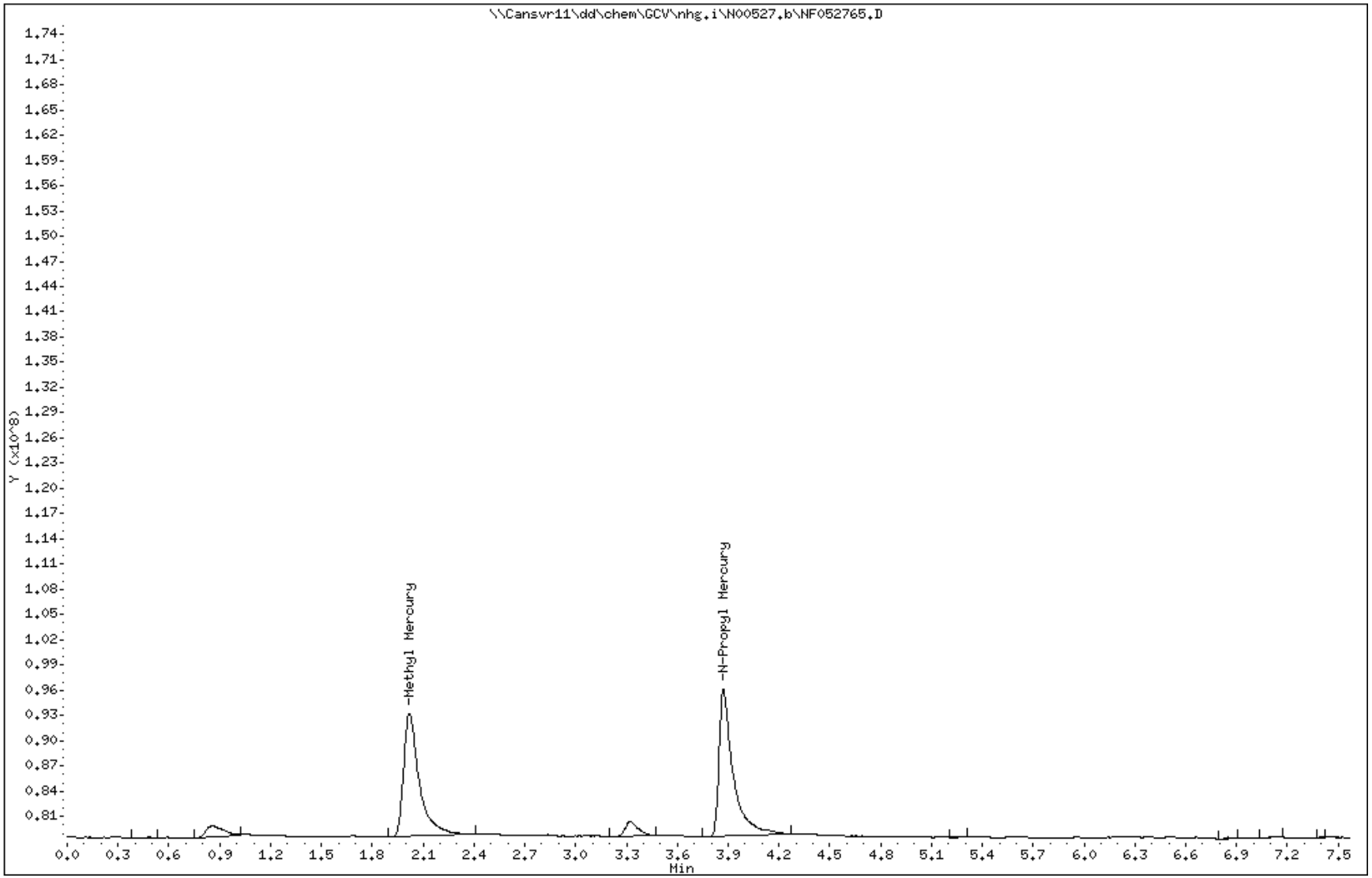
Instrument: nhg.i

Sample Info: CCV,,N00527,1,,2,METHSPIKE,1,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052766.D
Lab Smp Id: CCB
Inj Date : 28-MAY-2010 17:26
Operator : 402582 Inst ID: nhg.i
Smp Info : CCB,,N00527,1,,3,INSTBLANK,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 28-May-2010 17:12 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ng/L)
1 Methyl Mercury	Compound Not Detected.					
$ 2 N-Propyl Mercury	3.876	3.873	0.003	17965886	0.46197	0.461

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052766.D

Page 1

Date : 28-MAY-2010 17:26

Client ID:

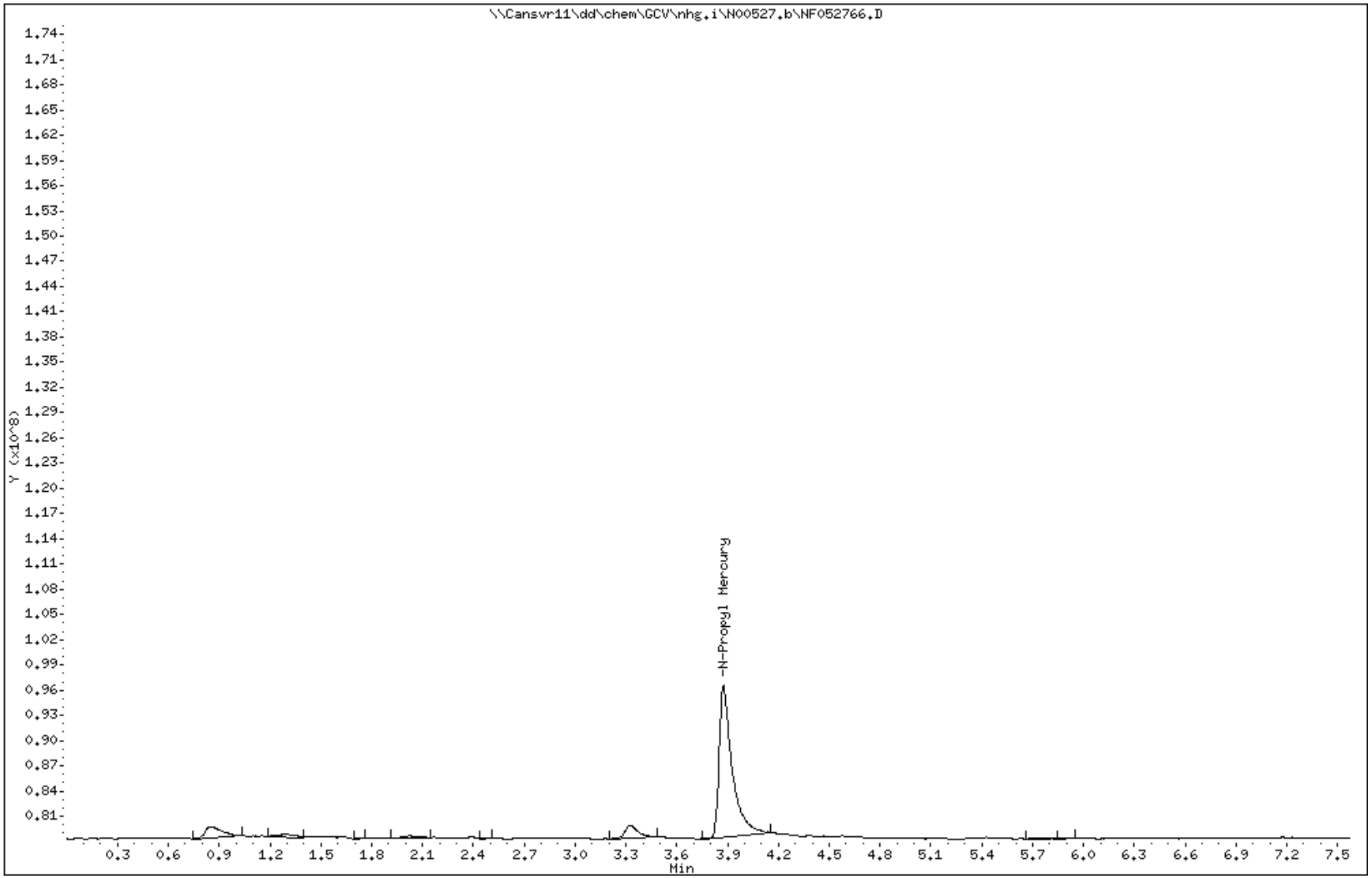
Instrument: nhg.i

Sample Info: CCB,,N00527,1,,3,INSTBLANK,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b/NF052787.D
Report Date: 05/29/2010

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: nhg.i Injection Date: 29-MAY-2010 01:16
Lab File ID: NF052787.D Lab Sample ID: CCV
Analysis Type: WATER Method File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 Methyl Mercury	0.5000	0.4738	5.2	33.0
3 N-Propyl Mercury	0.5000	0.4517	9.7	33.0

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052787.D
Lab Smp Id: CCV
Inj Date : 29-MAY-2010 01:16
Operator : 402582 Inst ID: nhg.i
Smp Info : CCV,,N00527,1,,2,METHSPIKE,1,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 01:24 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.020	2.020	0.000	13757355	0.50000	0.473
$ 2 N-Propyl Mercury	3.873	3.873	0.000	17547019	0.50000	0.451

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052787.D

Page 1

Date : 29-MAY-2010 01:16

Client ID:

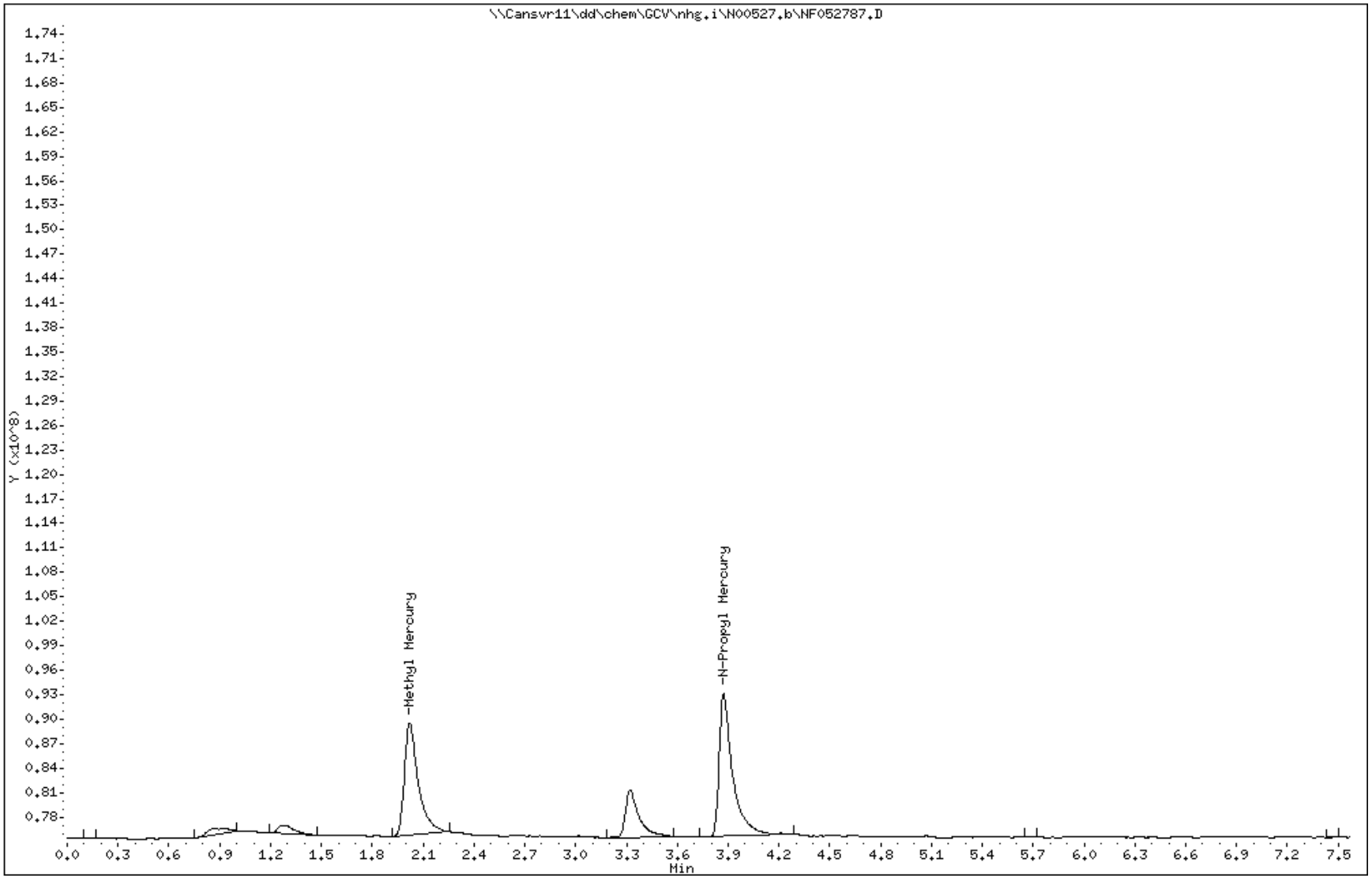
Instrument: nhg.i

Sample Info: CCV,,N00527,1,,2,METHSPIKE,1,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052788.D
Lab Smp Id: CCB
Inj Date : 29-MAY-2010 01:38
Operator : 402582 Inst ID: nhg.i
Smp Info : CCB,,N00527,1,,3,INSTBLANK,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 01:24 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ng/L)
1 Methyl Mercury	2.020	2.020	0.000	676573	0.00349	0.003
$ 2 N-Propyl Mercury	3.873	3.873	0.000	19094373	0.48970	0.489

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052788.D

Date : 29-MAY-2010 01:38

Client ID:

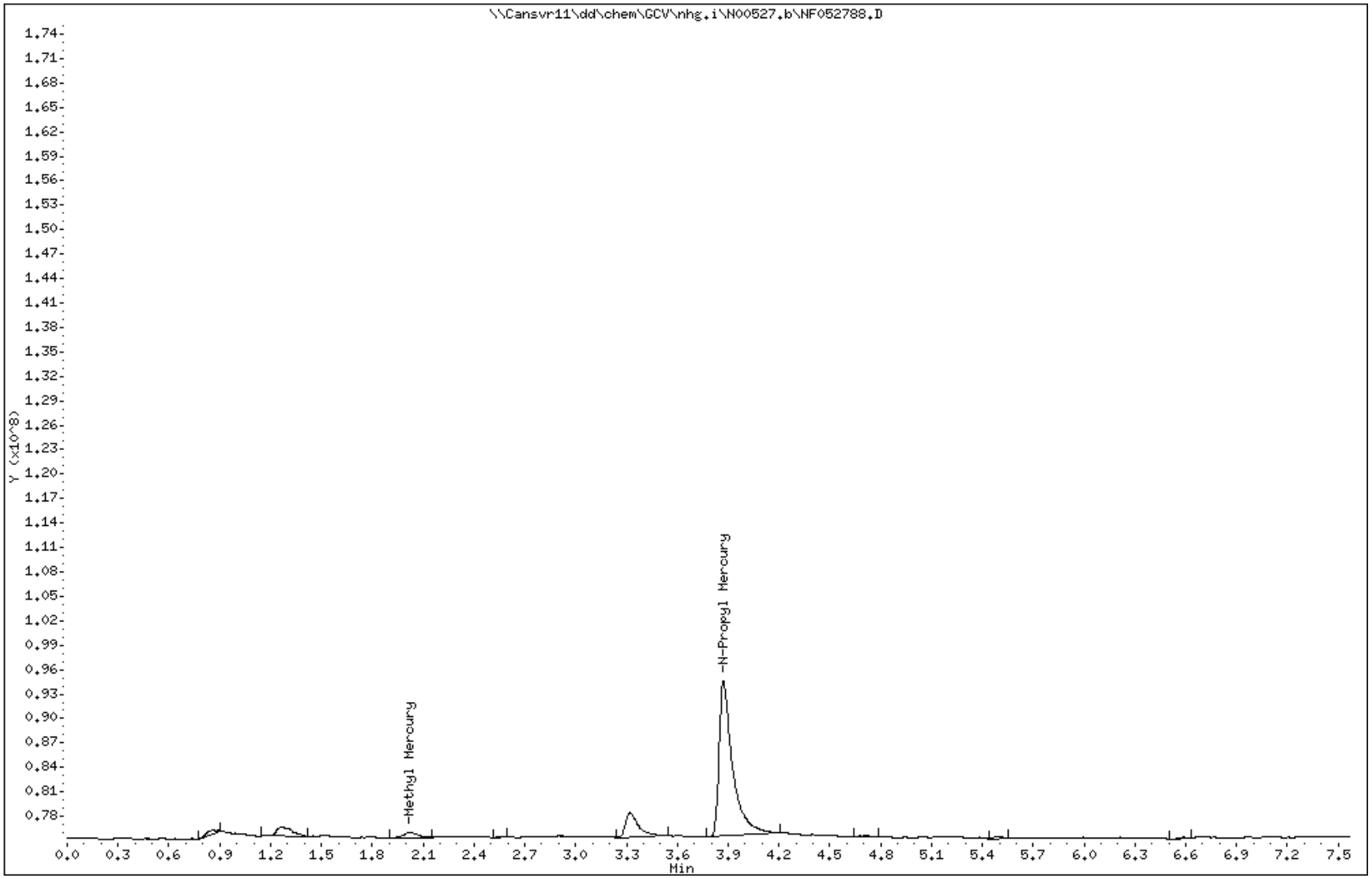
Instrument: nhg.i

Sample Info: CCB,,N00527,1,,3,INSTBLANK,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



Calibration History

Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\N1630L.m
Start Cal Date: 25-MAR-2010 19:32
End Cal Date : 25-MAR-2010 23:06
Last Cal Level: 11
Last Cal Type : Continuing Calibration

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 0.00001		
25-MAR-2010 19:32	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032503.D
Cal Level: 2 , Cal Amount: 0.00001		
25-MAR-2010 19:54	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032504.D
Cal Level: 3 , Cal Amount: 0.00001		
25-MAR-2010 20:15	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032505.D
Cal Level: 4 , Cal Amount: 0.02500		
25-MAR-2010 20:36	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032506.D
Cal Level: 5 , Cal Amount: 0.05000		
25-MAR-2010 20:58	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032507.D
Cal Level: 6 , Cal Amount: 0.10000		
25-MAR-2010 21:19	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032508.D
Cal Level: 7 , Cal Amount: 0.20000		
25-MAR-2010 21:40	1630	\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032509.D
Cal Level: 8 , Cal Amount: 0.50000		

```
|\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032510.D                          |
+-----------------+-----------------+-----------------------------------------+

+-----------------+-----------------+-----------------------------------------+
| Cal Level: 9 , Cal Amount: 1.00000                                          |
+=========================================================================+
|25-MAR-2010 22:23 |1630             |                                         |
|\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032511.D                           |
+-----------------+-----------------+-----------------------------------------+

+-----------------+-----------------+-----------------------------------------+
| Cal Level: 10, Cal Amount: 2.00000                                          |
+=========================================================================+
|25-MAR-2010 22:45 |1630             |                                         |
|\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032512.D                           |
+-----------------+-----------------+-----------------------------------------+

+-----------------+-----------------+-----------------------------------------+
| Cal Level: 11, Cal Amount: 4.00000                                          |
+=========================================================================+
|25-MAR-2010 23:06 |1630             |                                         |
|\\Cansvr11\dd\chem\GCV\nhg.i\N00325i.b\NF032513.D                           |
+-----------------+-----------------+-----------------------------------------+


Continuing Calibration
Ccal Level Mode: GLOBAL LEVEL 8
+-----------------+-----------------+-----------------------------------------+
|01-JUN-2010 14:43 |1630             |                                         |
|\\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\NF060111.D                            |
|01-JUN-2010 11:50 |1630             |                                         |
|\\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\NF060103.D                            |
+-----------------+-----------------+-----------------------------------------+
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Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b/NF060103.D
Report Date: 06/01/2010

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: nhg.i Injection Date: 01-JUN-2010 11:50
Lab File ID: NF060103.D Lab Sample ID: CCV
Analysis Type: WATER Method File: \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\N1630

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 Methyl Mercury	0.5000	0.4758	4.8	33.0
3 N-Propyl Mercury	0.5000	0.5691	13.8	33.0

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\NF060103.D
Lab Smp Id: CCV
Inj Date : 01-JUN-2010 11:50
Operator : 402582 Inst ID: nhg.i
Smp Info : CCV,,N00601,1,,2,METHSPIKE,1,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\N1630L.m
Meth Date : 01-Jun-2010 11:58 Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.006	2.006	0.000	13812557	0.50000	0.475
$ 2 N-Propyl Mercury	3.873	3.873	0.000	22324463	0.50000	0.569

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\NF060103.D

Page 1

Date : 01-JUN-2010 11:50

Client ID:

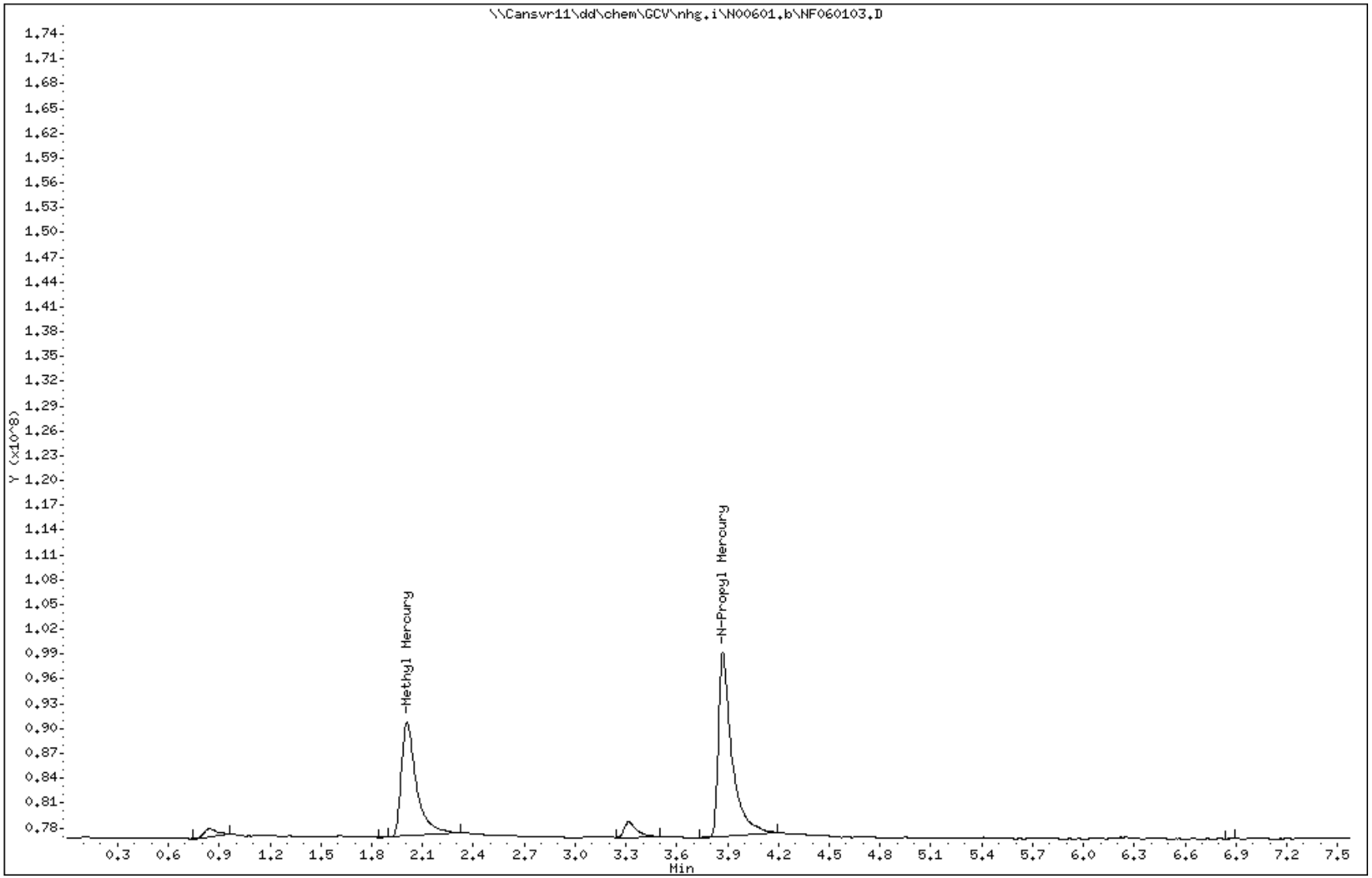
Instrument: nhg.i

Sample Info: CCV,,N00601,1,,2,METHSPIKE,1,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\NF060104.D
Lab Smp Id: CCB
Inj Date : 01-JUN-2010 12:12
Operator : 402582 Inst ID: nhg.i
Smp Info : CCB,,N00601,1,,3,INSTBLANK,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\N1630L.m
Meth Date : 01-Jun-2010 11:58 Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ng/L)
1 Methyl Mercury	Compound Not Detected.					
$ 2 N-Propyl Mercury	3.870	3.873	-0.003	23529656	0.59870	0.598

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\NF060104.D

Page 1

Date : 01-JUN-2010 12:12

Client ID:

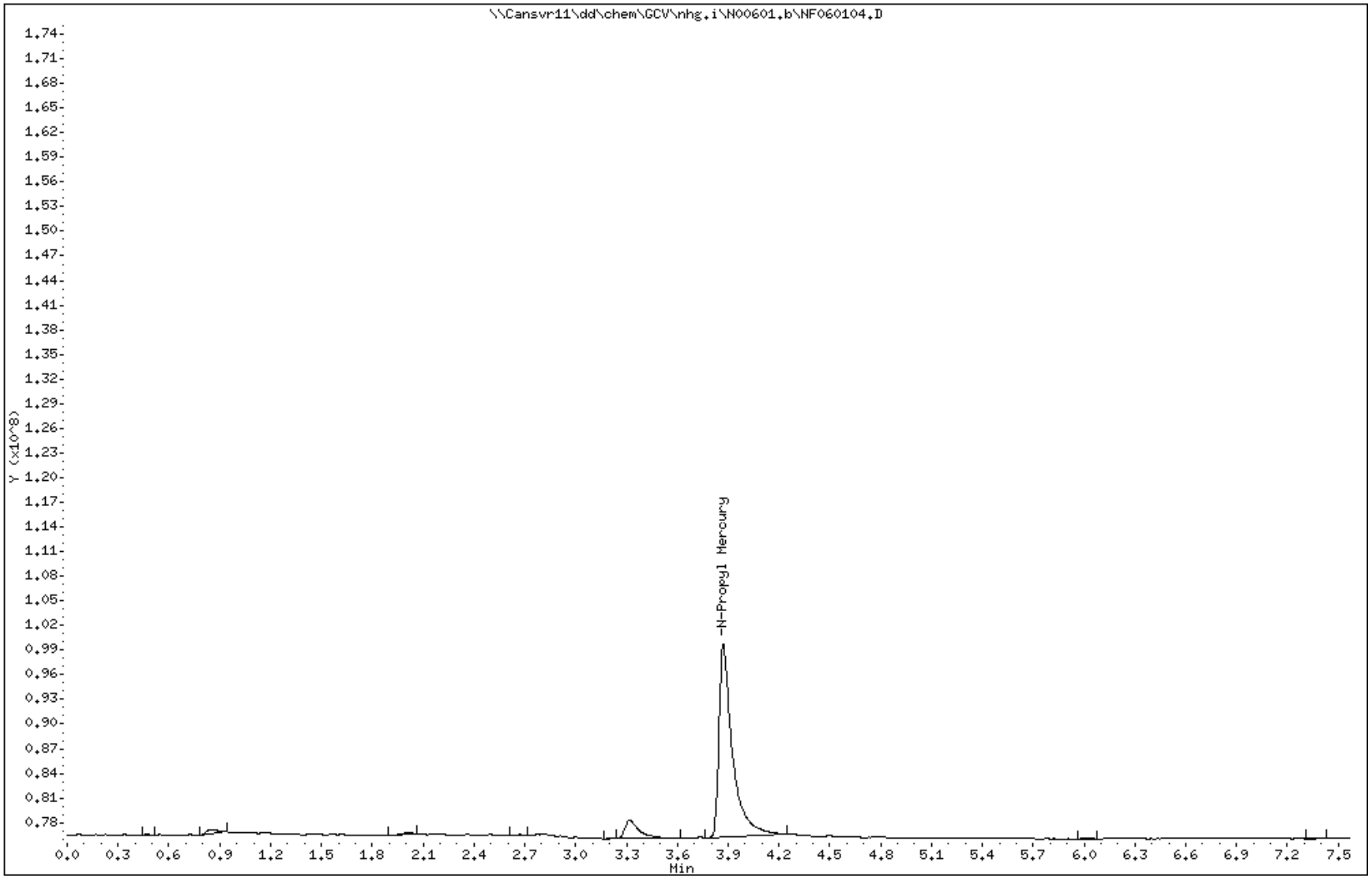
Instrument: nhg.i

Sample Info: CCB,,N00601,1,,3,INSTBLANK,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b/NF060111.D
Report Date: 06/01/2010

CONTINUING CALIBRATION COMPOUNDS
PERCENT DRIFT REPORT

Instrument ID: nhg.i Injection Date: 01-JUN-2010 14:43
Lab File ID: NF060111.D Lab Sample ID: CCV
Analysis Type: WATER Method File: \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\N1630

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
1 Methyl Mercury	0.5000	0.4795	4.1	33.0
3 N-Propyl Mercury	0.5000	0.5791	15.8	33.0

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\NF060111.D
Lab Smp Id: CCV
Inj Date : 01-JUN-2010 14:43
Operator : 402582 Inst ID: nhg.i
Smp Info : CCV,,N00601,1,,2,METHSPIKE,1,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\N1630L.m
Meth Date : 01-Jun-2010 14:51 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ng/L)	AMOUNTS ON-COL (ng/L)
1 Methyl Mercury	2.013	2.013	0.000	13915917	0.50000	0.479
$ 2 N-Propyl Mercury	3.873	3.873	0.000	22732370	0.50000	0.579

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\NF060111.D

Page 1

Date : 01-JUN-2010 14:43

Client ID:

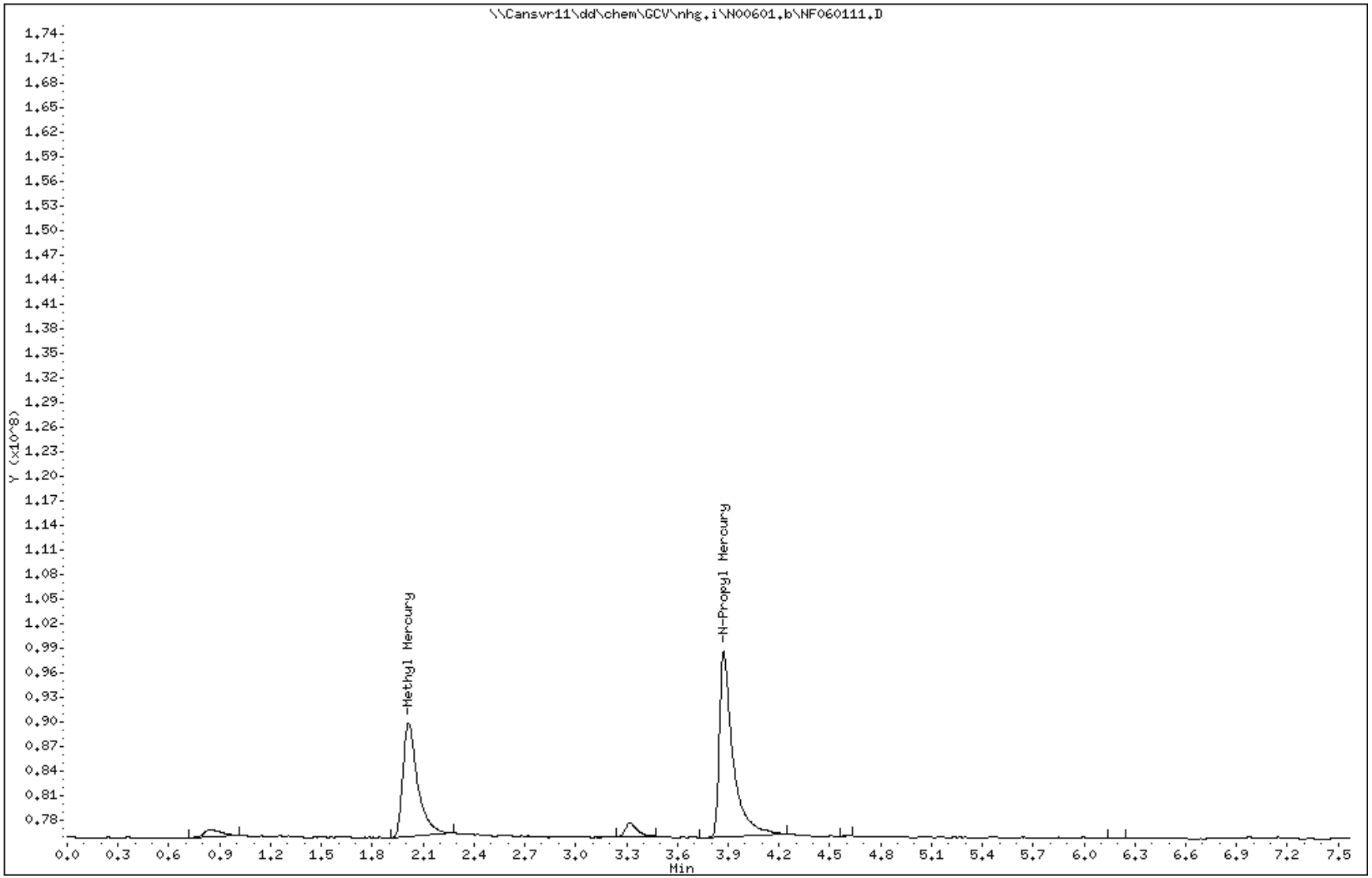
Instrument: nhg.i

Sample Info: CCV,,N00601,1,,2,METHSPIKE,1,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\NF060112.D
Lab Smp Id: CCB
Inj Date : 01-JUN-2010 15:05
Operator : 402582 Inst ID: nhg.i
Smp Info : CCB,,N00601,1,,3,INSTBLANK,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\N1630L.m
Meth Date : 01-Jun-2010 14:51 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 QC Sample: INSTBLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ng/L)
1 Methyl Mercury	Compound Not Detected.					
$ 2 N-Propyl Mercury	3.873	3.873	0.000	22238497	0.56697	0.566

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\NF060112.D

Page 1

Date : 01-JUN-2010 15:05

Client ID:

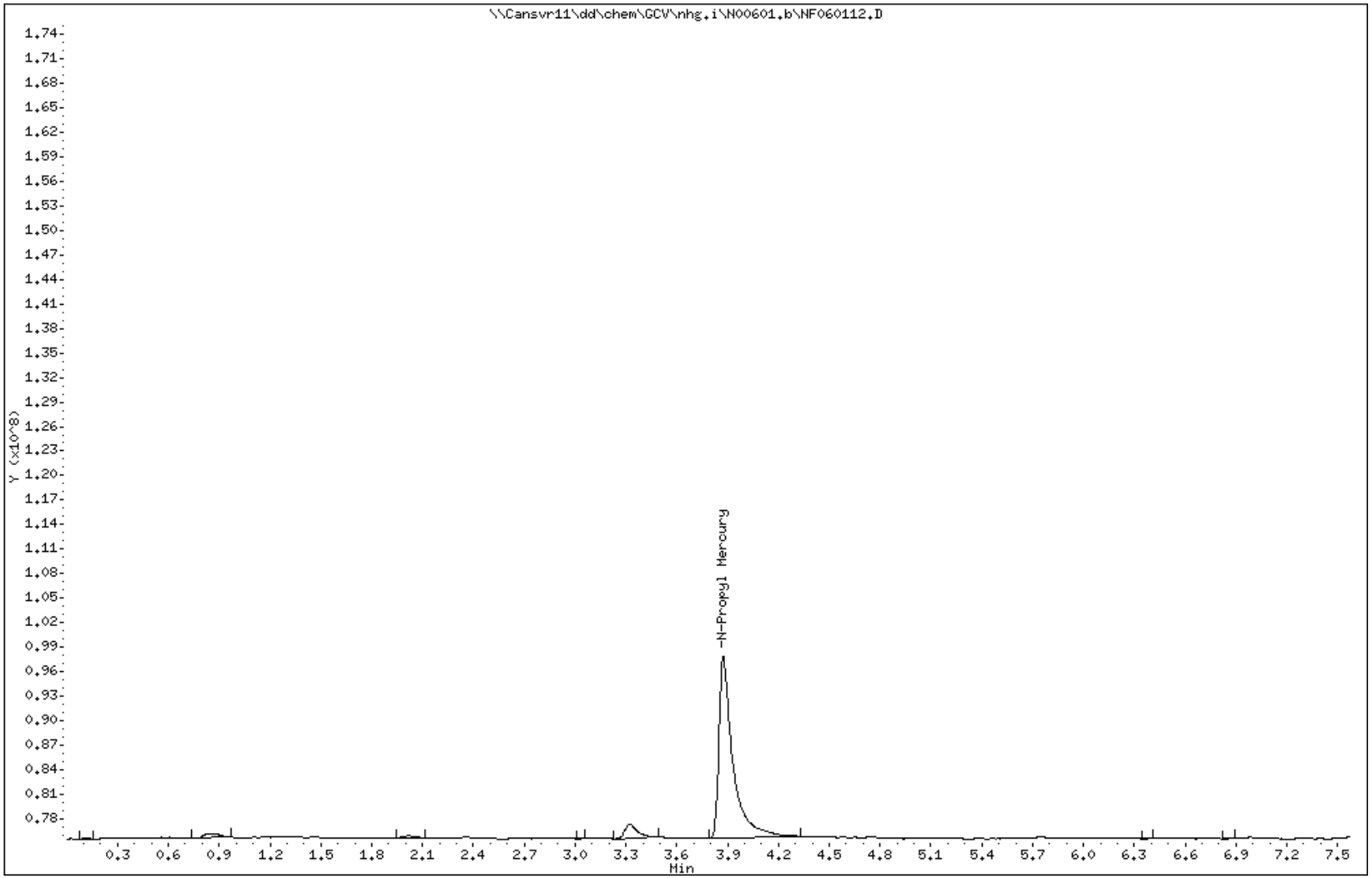
Instrument: nhg.i

Sample Info: CCB,,N00601,1,,3,INSTBLANK,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



RAW QC DATA

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A0E210615 **Work Order #...:** L12821AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0E260000-087
Prep Date.....: 05/26/10 **Analysis Date..:** 05/28/10
Prep Batch #...: 0146087
Dilution Factor: 1 **Final Wgt/Vol..:** 39 mL
Initial Wgt/Vol: 1 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Methyl Mercury	**105**	**(40 - 145)**	**CFR136A 1630**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	92	(30 - 127)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: A0E210615 **Work Order #...:** L12821AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0E260000-087
Prep Date.....: 05/26/10 **Analysis Date..:** 05/28/10
Prep Batch #...: 0146087
Dilution Factor: 1 **Final Wgt/Vol..:** 39 mL
Initial Wgt/Vol: 1 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Methyl Mercury	**1.0**	**1.0**	**ug/kg**	**105**	**CFR136A 1630**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	92	(30 - 127)

NOTE(S):

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

Bold print denotes control parameters

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052737.D
Lab Smp Id: L12821AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 28-MAY-2010 06:56
Operator : 402582 Inst ID: nhg.i
Smp Info : L12821AC,,N00527,,,3,LCS,1,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Concentration Formula: Amt * DF * 1/Vi/Ws*Vt*0.215 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	4200.000	Volume Injected
Ws	1.000	Sample Weight
Vt	39000.000	Final Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ug/kg)
1 Methyl Mercury	2.033	2.020	0.013	15171091	0.52462	1.047
$ 2 N-Propyl Mercury	3.873	3.873	0.000	17886416	0.46002	0.918

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052737.D

Page 1

Date : 28-MAY-2010 06:56

Client ID: INTRA-LAB CHECK

Instrument: nhg.i

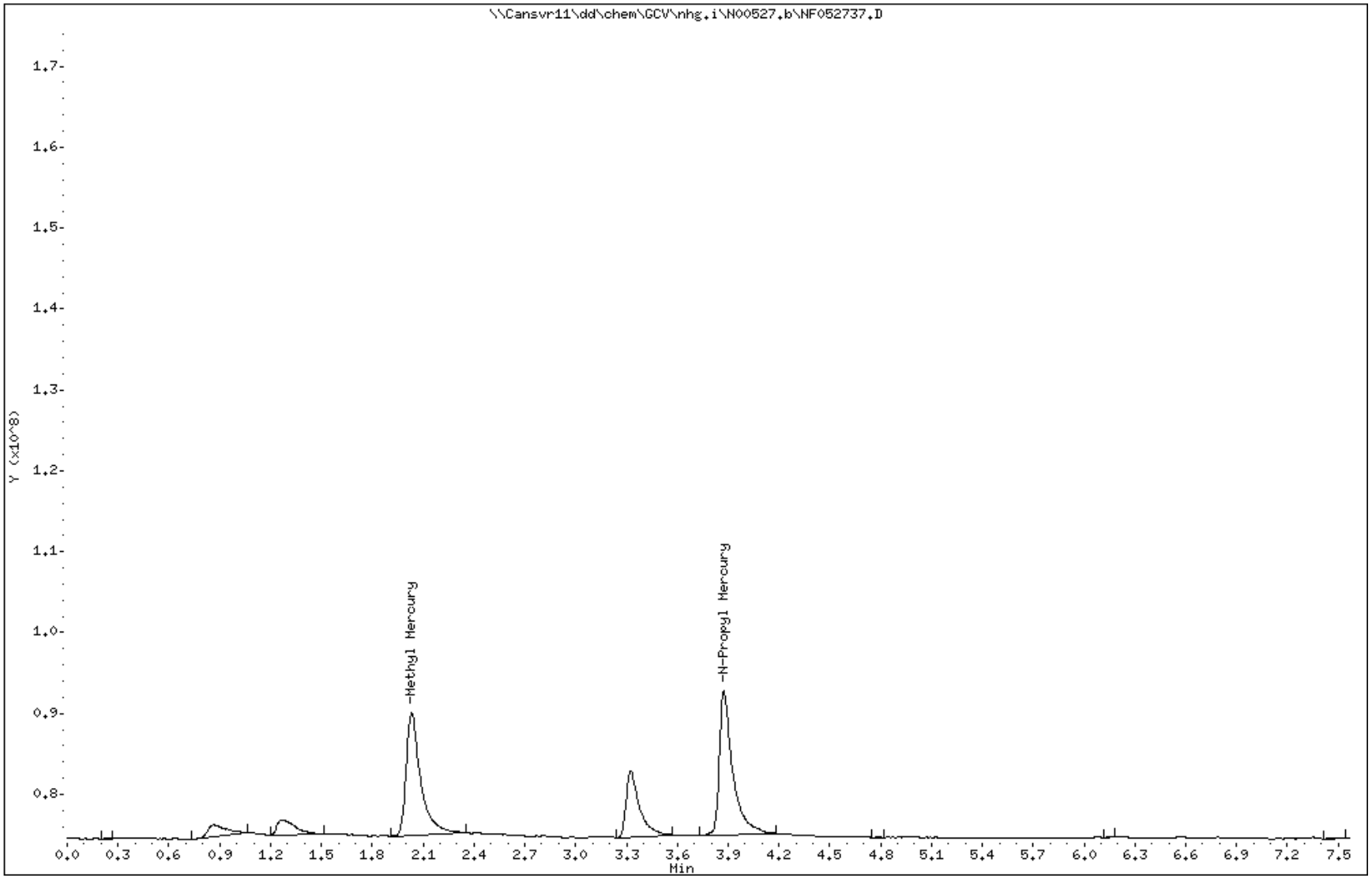
Sample Info: L12821AC,,N00527,,,3,LCS,1,,,N1630L

Volume Injected (uL): 4200.0

Operator: 402582

Column phase:

Column diameter: 2.00



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A0E210615 **Work Order #...:** L19G91AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A0E290000-019 L19G91AD-LCSD
Prep Date.....: 05/27/10 **Analysis Date..:** 05/27/10
Prep Batch #...: 0149019
Dilution Factor: 1 **Final Wgt/Vol..:** 39 mL
Initial Wgt/Vol: 39 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Methyl Mercury	**96**	**(67 - 133)**			**CFR136A 1630**
	95	**(67 - 133)**	**0.63**	**(0-30)**	**CFR136A 1630**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	101	(50 - 150)
	93	(50 - 150)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: A0E210615 **Work Order #...:** L19G91AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A0E290000-019 L19G91AD-LCSD
Prep Date.....: 05/27/10 **Analysis Date..:** 05/27/10
Prep Batch #...: 0149019
Dilution Factor: 1 **Final Wgt/Vol..:** 39 mL
Initial Wgt/Vol: 39 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Methyl Mercury	**0.50**	**0.48**	**ng/L**	**96**		**CFR136A 1630**
	0.50	**0.48**	**ng/L**	**95**	**0.63**	**CFR136A 1630**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	101	(50 - 150)
	93	(50 - 150)

NOTE(S):

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

Bold print denotes control parameters

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052706.D
Lab Smp Id: L19G91AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 27-MAY-2010 19:40
Operator : 402582 Inst ID: nhg.i
Smp Info : L19G91AC,,N00527,1,,3,LCS,1,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ng/L)
1 Methyl Mercury	2.066	2.020	0.046	13897039	0.47882	0.478
$ 2 N-Propyl Mercury	3.893	3.873	0.020	19830232	0.50779	0.507

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052706.D

Page 1

Date : 27-MAY-2010 19:40

Client ID: INTRA-LAB CHECK

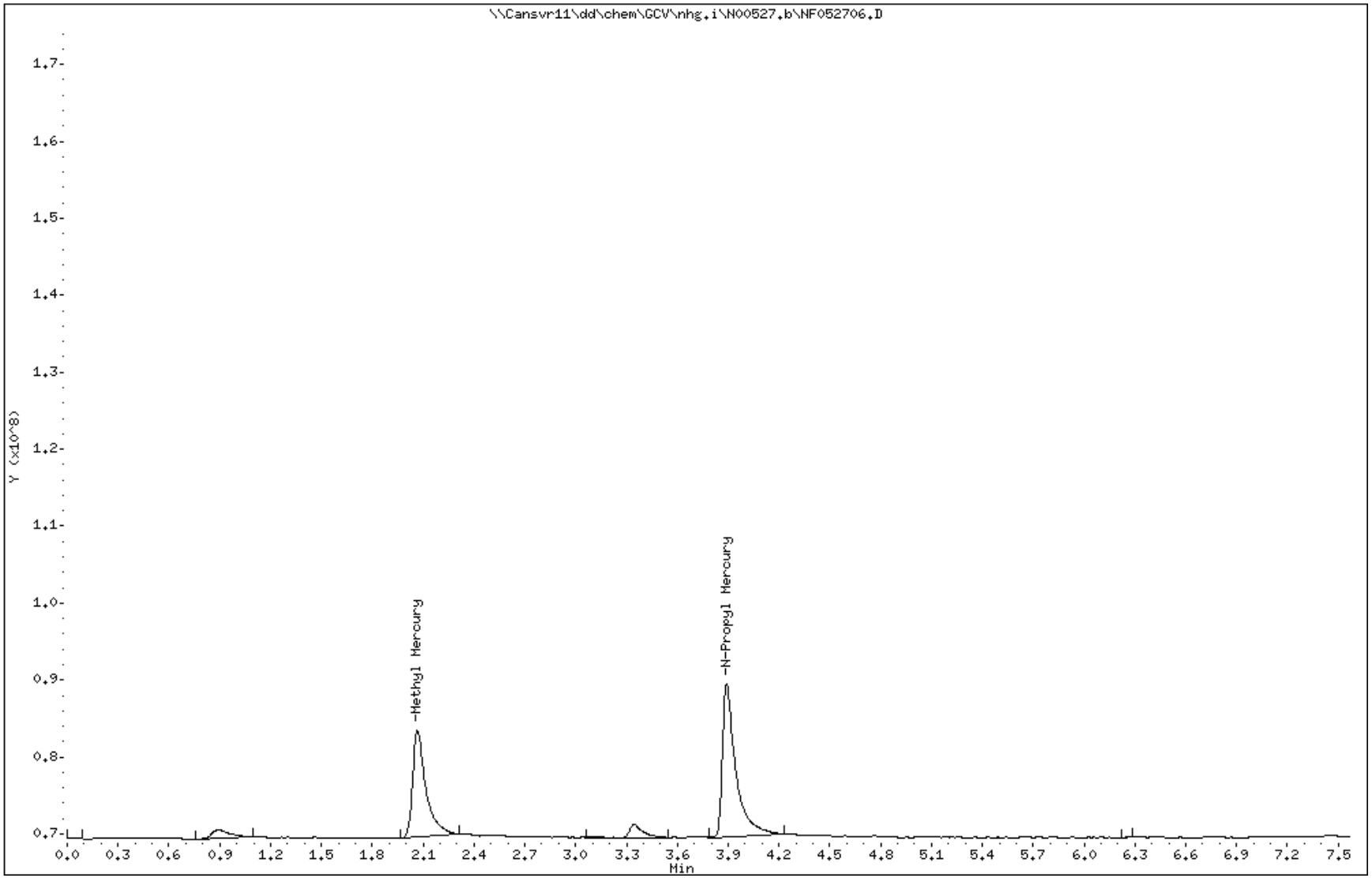
Instrument: nhg.i

Sample Info: L19G91AC,,N00527,1,,3,LCS,1,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052707.D
Lab Smp Id: L19G91AD Client Smp ID: INTRA-LAB CHECK
Inj Date : 27-MAY-2010 20:02
Operator : 402582 Inst ID: nhg.i
Smp Info : L19G91AD,,N00527,1,,3,LCS,1,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ng/L)
1 Methyl Mercury	2.060	2.020	0.040	13813164	0.47580	0.475
$ 2 N-Propyl Mercury	3.890	3.873	0.017	18102472	0.46533	0.465

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052707.D

Page 1

Date : 27-MAY-2010 20:02

Client ID: INTRA-LAB CHECK

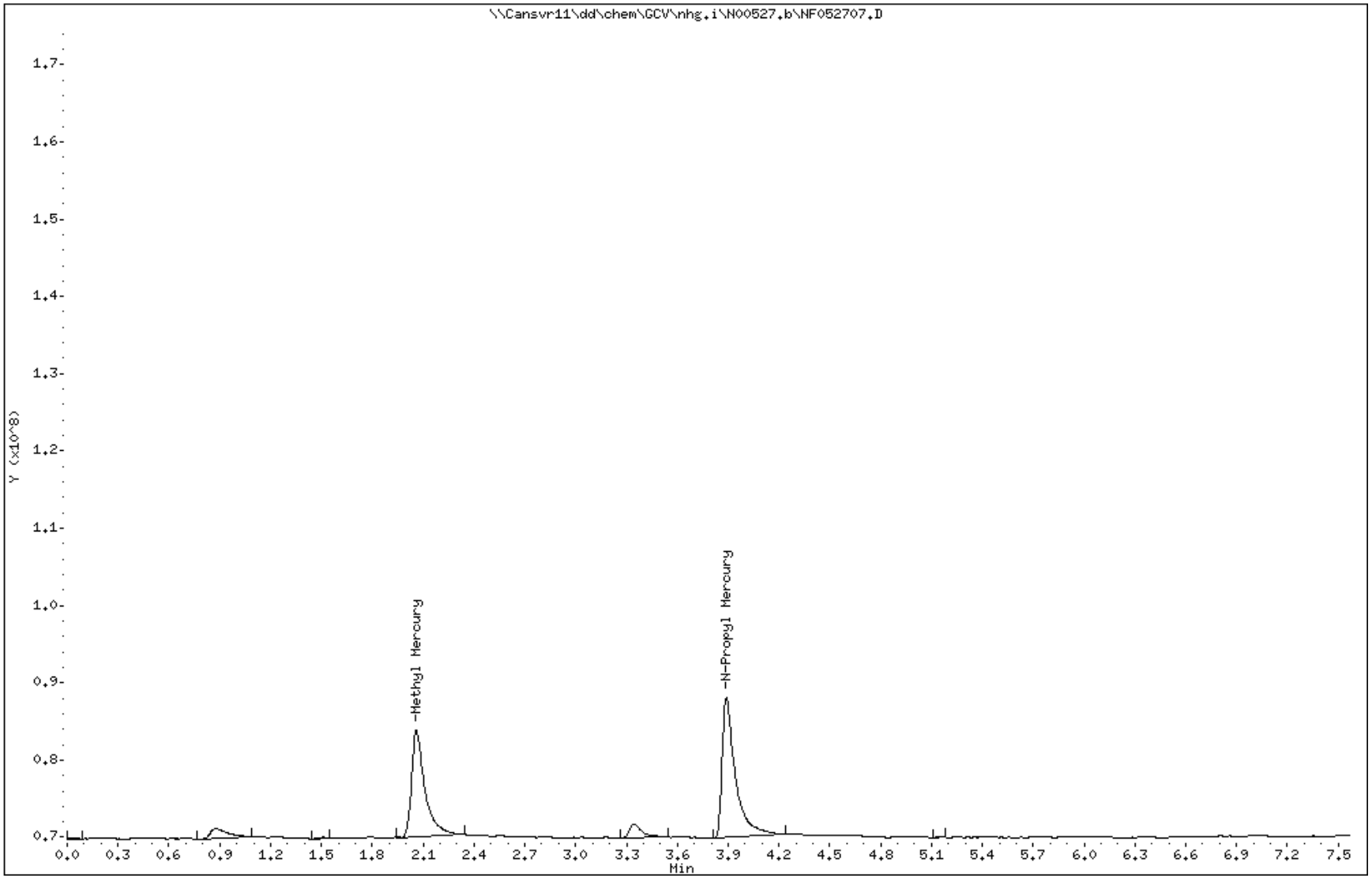
Instrument: nhg.i

Sample Info: L19G91AD,,N00527,1,,3,LCS,1,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A0E210615 **Work Order #...:** L19HL1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0E290000-021
Prep Date.....: 05/29/10 **Analysis Date..:** 06/01/10
Prep Batch #...: 0149021
Dilution Factor: 1 **Final Wgt/Vol..:** 39 mL
Initial Wgt/Vol: 1 g

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Methyl Mercury	**125**	**(40 - 145)**	**CFR136A 1630**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	109	(30 - 127)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #...: A0E210615 **Work Order #...:** L19HL1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A0E290000-021
Prep Date.....: 05/29/10 **Analysis Date..:** 06/01/10
Prep Batch #...: 0149021
Dilution Factor: 1 **Final Wgt/Vol..:** 39 mL
Initial Wgt/Vol: 1 g

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Methyl Mercury	**1.0**	**1.2**	**ug/kg**	**125**	**CFR136A 1630**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	109	(30 - 127)

NOTE(S):

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

Bold print denotes control parameters

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\NF060106.D
Lab Smp Id: L19HL1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 01-JUN-2010 12:55
Operator : 402582 Inst ID: nhg.i
Smp Info : L19HL1AC,4200,N00601,,,3,LCS,1,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\N1630L.m
Meth Date : 01-Jun-2010 13:03 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Concentration Formula: Amt * DF * 1/Vi/Ws*Vt*0.215 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	4200.000	Volume Injected
Ws	1.000	Sample Weight
Vt	39000.000	Final Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ug/kg)
1 Methyl Mercury	2.019	2.006	0.013	17962761	0.62500	1.247
$ 2 N-Propyl Mercury	3.876	3.873	0.003	21282995	0.54349	1.085

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\NF060106.D

Page 1

Date : 01-JUN-2010 12:55

Client ID: INTRA-LAB CHECK

Instrument: nhg.i

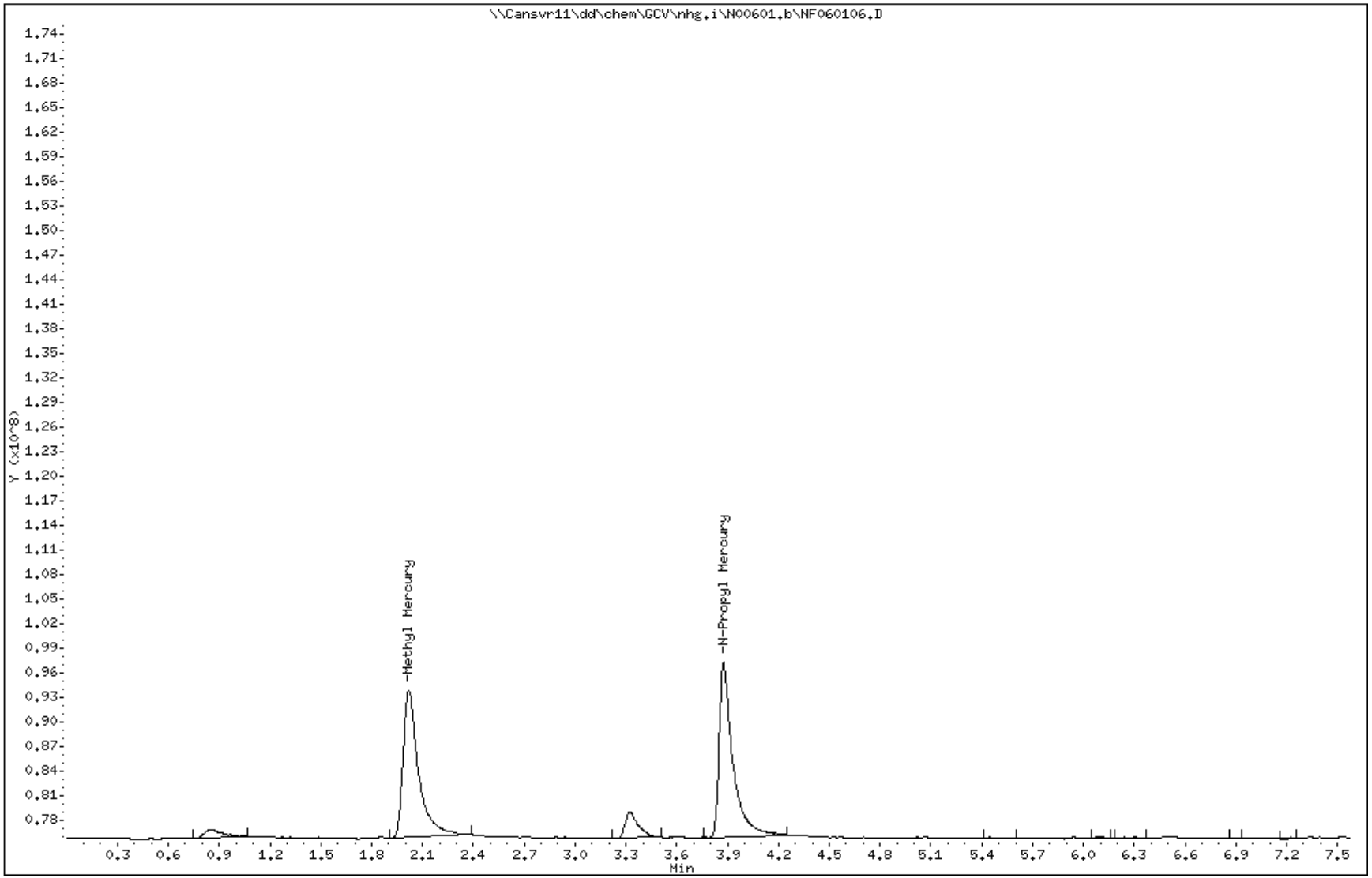
Sample Info: L19HL1AC,4200,N00601,,,3,LCS,1,,,N1630L

Volume Injected (uL): 4200.0

Operator: 402582

Column phase:

Column diameter: 2.00



METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A0E210615 **Work Order #...:** L12821AA **Matrix.....:** SOLID
MB Lot-Sample #: A0E260000-087

Prep Date.....: 05/26/10 **Final Wgt/Vol..:** 39 mL
Analysis Date..: 05/28/10 **Prep Batch #...:** 0146087
Dilution Factor: 1 **Initial Wgt/Vol:** 1 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methyl Mercury	ND	0.050	ug/kg	CFR136A 1630

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	76	(30 - 127)

NOTE(S):

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

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052736.D
Lab Smp Id: L12821AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 28-MAY-2010 06:34
Operator : 402582 Inst ID: nhg.i
Smp Info : L12821AA,,N00527,,,3,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Concentration Formula: Amt * DF * 1/Vi/Ws*Vt*0.215 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	4200.000	Volume Injected
Ws	1.000	Sample Weight
Vt	39000.000	Final Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ug/kg)
1 Methyl Mercury	Compound Not Detected.					
$ 2 N-Propyl Mercury	3.873	3.873	0.000	14712721	0.38202	0.762

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052736.D

Page 1

Date : 28-MAY-2010 06:34

Client ID: INTRA-LAB BLANK

Instrument: nhg.i

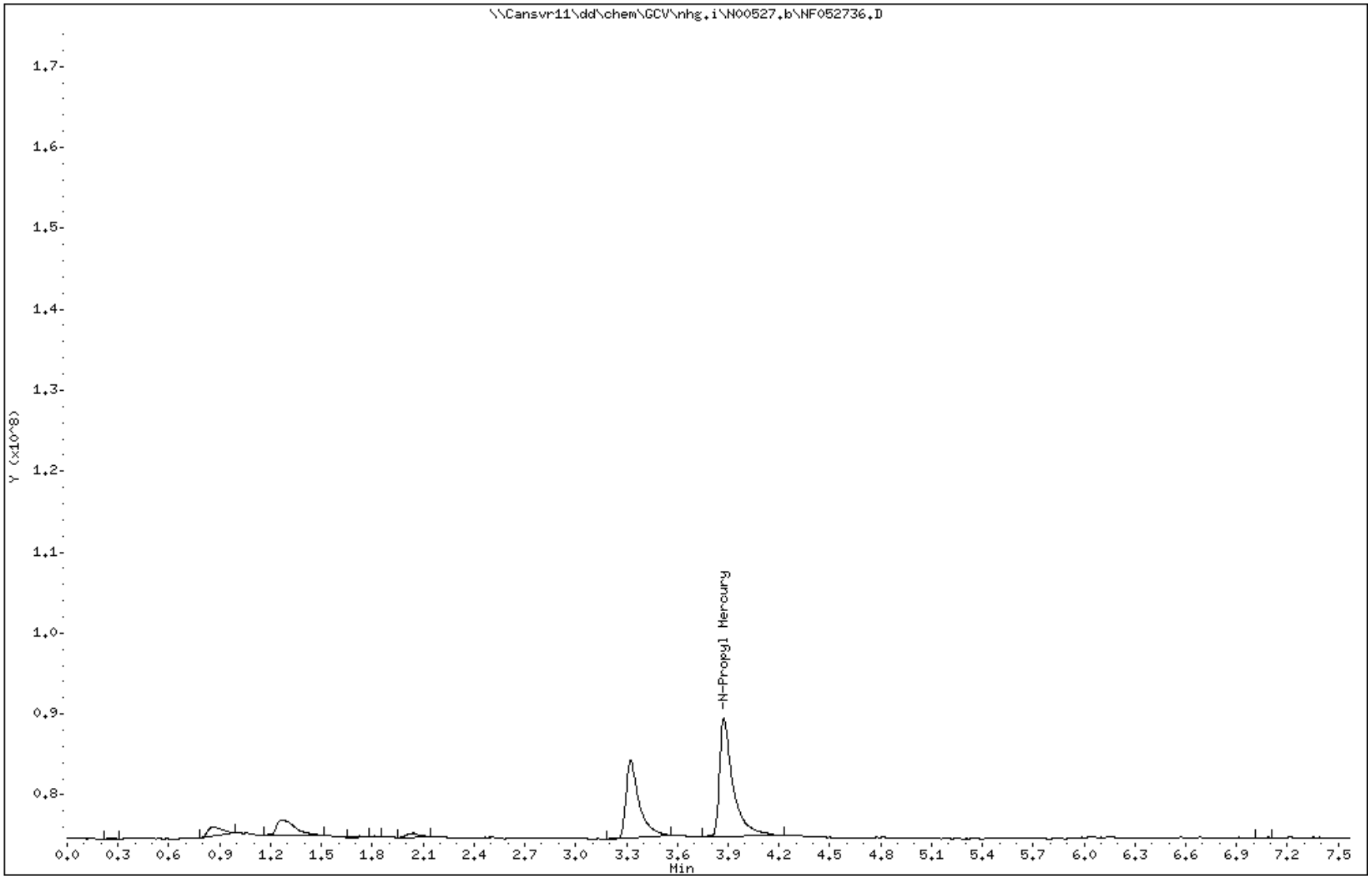
Sample Info: L12821AA,,N00527,,,3,,,,,N1630L

Volume Injected (uL): 4200.0

Operator: 402582

Column phase:

Column diameter: 2.00



METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A0E210615 **Work Order #...:** L19G91AA **Matrix.....:** WATER
MB Lot-Sample #: A0E290000-019

Prep Date.....: 05/27/10 **Final Wgt/Vol..:** 39 mL
Analysis Date..: 05/27/10 **Prep Batch #...:** 0149019
Dilution Factor: 1 **Initial Wgt/Vol:** 39 mL

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methyl Mercury	ND	0.025	ng/L	CFR136A 1630

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	92	(50 - 150)

NOTE(S):

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

TestAmerica - North Canton

Methyl Mercury Method 1630

Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052705.D
Lab Smp Id: L19G91AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 27-MAY-2010 19:18
Operator : 402582 Inst ID: nhg.i
Smp Info : L19G91AA,,N00527,1,,3,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\N1630L.m
Meth Date : 29-May-2010 07:45 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	FINAL (ng/L)
1 Methyl Mercury	Compound Not Detected.					
$ 2 N-Propyl Mercury	3.893	3.873	0.020	17908322	0.46056	0.460

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00527.b\NF052705.D

Page 1

Date : 27-MAY-2010 19:18

Client ID: INTRA-LAB BLANK

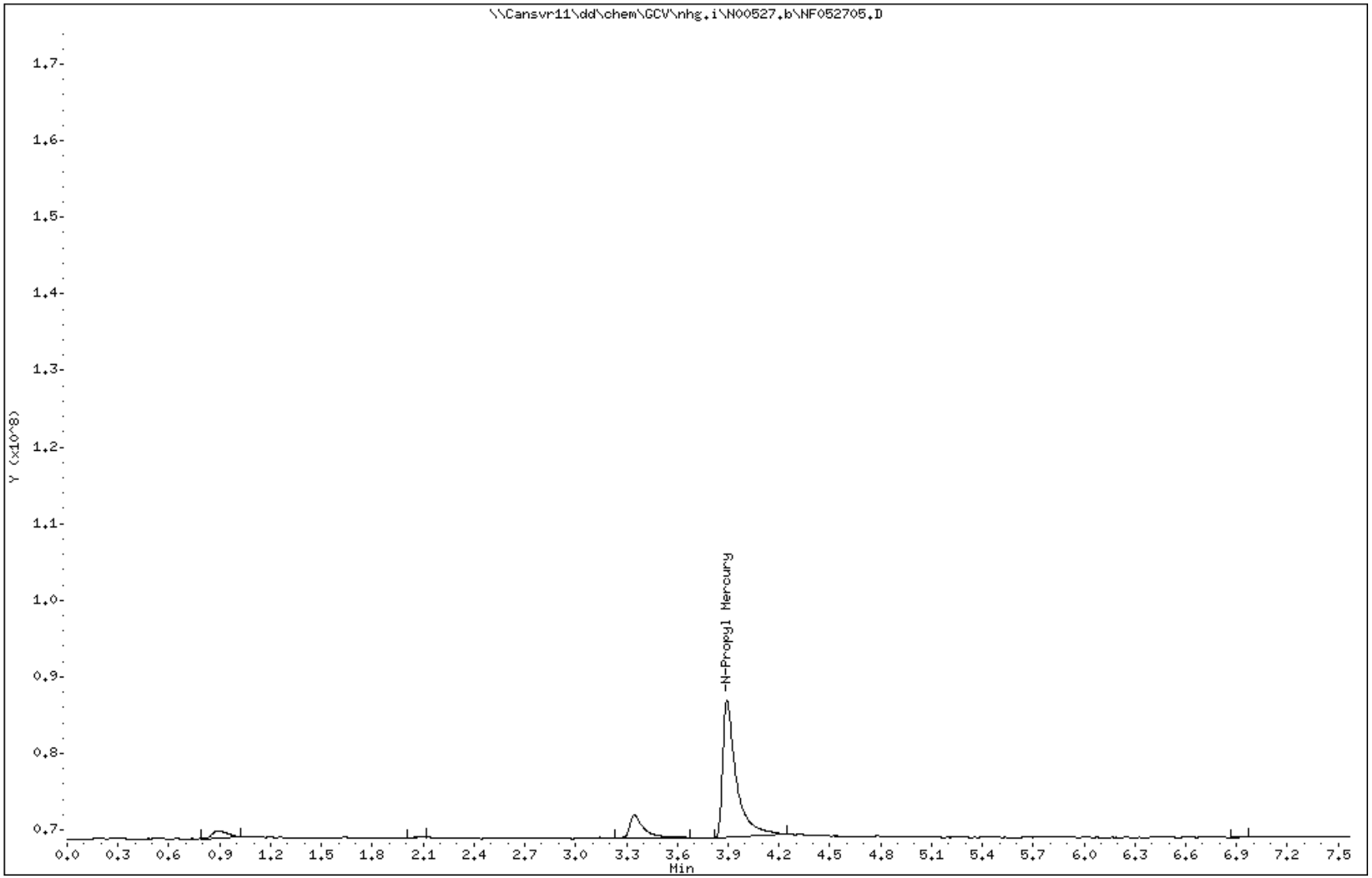
Instrument: nhg.i

Sample Info: L19G91AA,,N00527,1,,3,,,,,N1630L

Operator: 402582

Column phase:

Column diameter: 2.00



METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A0E210615 **Work Order #...:** L19HL1AA **Matrix.....:** SOLID
MB Lot-Sample #: A0E290000-021

Prep Date.....: 05/29/10 **Final Wgt/Vol..:** 39 mL
Analysis Date..: 06/01/10 **Prep Batch #...:** 0149021
Dilution Factor: 1 **Initial Wgt/Vol:** 1 g

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Methyl Mercury	ND	0.10	ug/kg	CFR136A 1630

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
n-Propyl Mercury	108	(30 - 127)

NOTE(S):

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

TestAmerica - North Canton

Methyl Mercury Method 1630

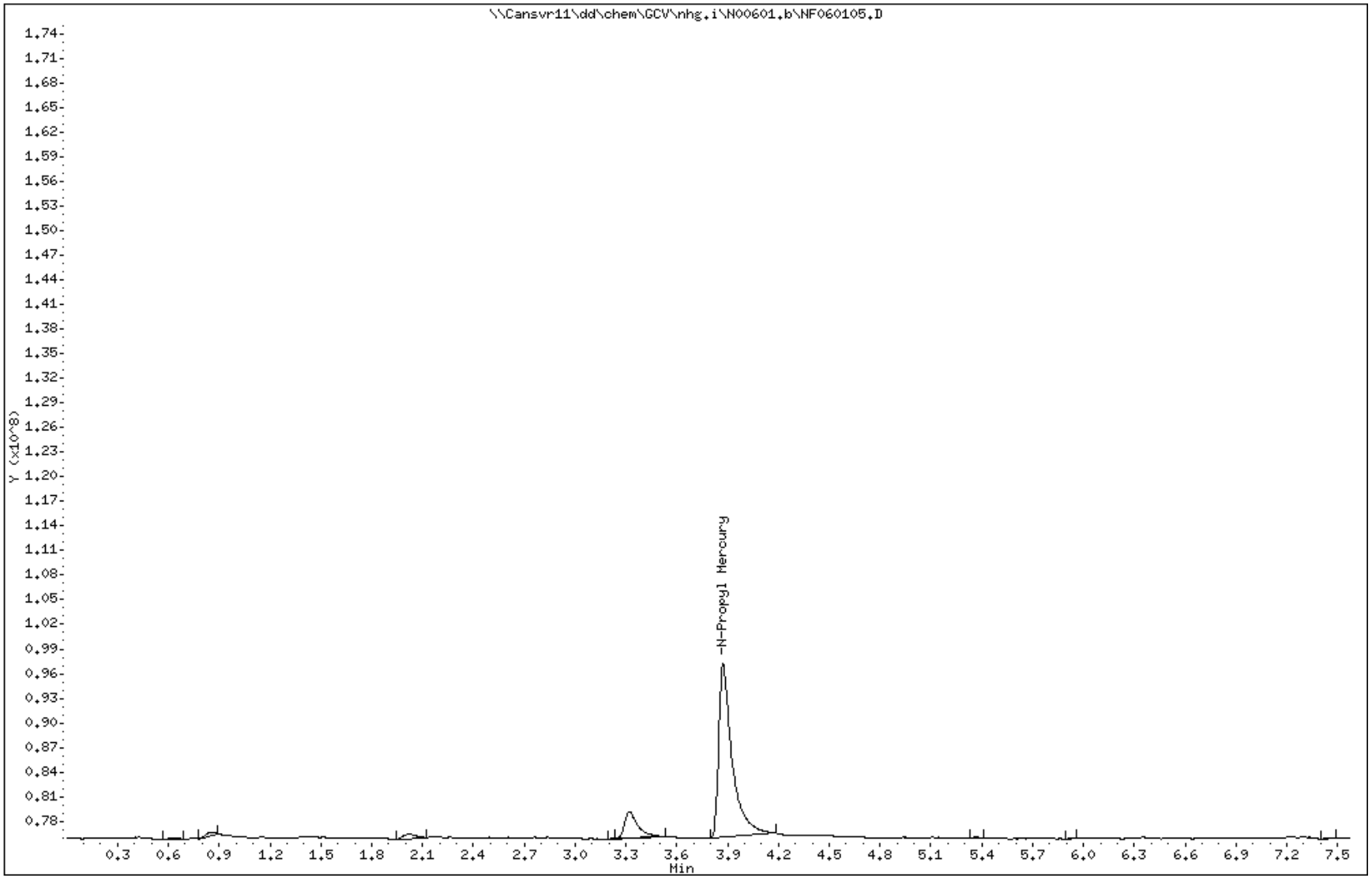
Data file : \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\NF060105.D
Lab Smp Id: L19HL1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 01-JUN-2010 12:33
Operator : 402582 Inst ID: nhg.i
Smp Info : L19HL1AA,4200,N00601,,,3,,,,,N1630L
Misc Info :
Comment :
Method : \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\N1630L.m
Meth Date : 01-Jun-2010 13:03 shockr Quant Type: ESTD
Cal Date : 25-MAR-2010 23:06 Cal File: NF032513.D
Als bottle: 1 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: 1630.sub
Target Version: 4.14
Processing Host: CANPTARGET7

Concentration Formula: Amt * DF * 1/Vi/Ws*Vt*0.215 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vi	4200.000	Volume Injected
Ws	1.000	Sample Weight
Vt	39000.000	Final Volume
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/L)	CONCENTRATIONS FINAL (ug/kg)
1 Methyl Mercury	Compound Not Detected.					
$ 2 N-Propyl Mercury	3.873	3.873	0.000	21212253	0.54175	1.081

Data File: \\Cansvr11\dd\chem\GCV\nhg.i\N00601.b\NF060105.D Page 1
Date : 01-JUN-2010 12:33
Client ID: INTRA-LAB BLANK Instrument: nhg.i
Sample Info: L19HL1AA,4200,N00601,,,3,,,,,N1630L
Volume Injected (uL): 4200.0 Operator: 402582
Column phase: Column diameter: 2.00



MISCELLANEOUS DATA

Sequence Parameters:

Operator: 402582

Data File Naming: Prefix/Counter
Signal 1 Prefix: NF
Counter: 032501
Signal 2 Prefix: SIG2
Counter: 000001
Data Directory: C:\Chem32\1\DATA\

Data Subdirectory: N00325I

Part of Methods to run: According to Runtime Checklist

Barcode Reader: not used

Shutdown Cmd/Macro: none

Sequence Comment:
MeHgCl 0.2ppb Lot # 0715-09-01.1A 2ppb Lot # 0715-09-01.1A 40ppb Lot # 0615-09-01

n-PrHgCl 0.2ppb Lot # 0202-09-02 2ppb Lot # 0202-09-02 20ppb Lot # 0715-09-01.3

DL-Methionine Lot # 058H0124 KOH Lot # 05597LJ MeOH Lot # G49E42

Citric Acid Lot # 019K0157 Sodium Citrate Lot # 078K0135 Antifoam A Lot # 117K0047

Sodium tetraethylborate Lot # A8989058 CuSO4*5H2O Lot # 081286 ICV Std # 3698

KBr Lot # 066828 Hydroxylamine HCl Lot # G45667 H2SO4 Lot # G30047

Matrix	1630 L		
Batch	0088412		
QC W/O #	LW967		
Level I	[illegible]	3/30/10	
Level II	[illegible]	3/30/10	
PDF	[illegible]		

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	RINSE,,N00325i,1,,,,,,,N1630L				
2	Vial 1	RINSE,,N00325i,1,,,,,,,N1630L				

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
3	Vial 1	ICAL1,,N00325i,1,,1,,,1,,N1630L				
4	Vial 1	ICAL2,,N00325i,1,,1,,,2,,N1630L				
5	Vial 1	ICAL3,,N00325i,1,,1,,,3,,N1630L				
6	Vial 1	ICAL4,,N00325i,1,,1,,,4,,N1630L				
7	Vial 1	ICAL5,,N00325i,1,,1,,,5,,N1630L				
8	Vial 1	ICAL6,,N00325i,1,,1,,,6,,N1630L				
9	Vial 1	ICAL7,,N00325i,1,,1,,,7,,N1630L				
10	Vial 1	ICAL8,,N00325i,1,,1,,,8,,N1630L				
11	Vial 1	ICAL9,,N00325i,1,,1,,,9,,N1630L				
12	Vial 1	ICAL10,,N00325i,1,,1,,,10,,N1630L				
13	Vial 1	ICAL11,,N00325i,1,,1,,,11,,N1630L				
14	Vial 1	ICV,,N00325i,1,,3,ICV,1,,N1630L				
15	Vial 1	ICB,,N00325i,1,,3,INSTBLANK,,,,N1630L				
16	Vial 1	MB,,N00325i,1,,3,,,,,N1630L				
17	Vial 1	LCS,,N00325i,1,,3,LCS,1,,,N1630L				
18	Vial 1	LCSD,,N00325i,1,,3,LCS,1,,,N1630L				
19	Vial 1	LWWTE1AC,,N00325i,1,3,,,,,,N1630L				
20	Vial 1	LWWTE1MS,,N00325i,1,3,3,MS,1,,,N1630L SURR↓				
21	Vial 1	LWWTEMSD,,N00325i,1,3,3,MS,1,,,N1630L				
22	Vial 1	LWWTF1AC,,N00325i,1,3,,,,,,N1630L SURR↓				
23	Vial 1	LWWTF1MS,,N00325i,1,3,3,MS,1,,,N1630L				
24	Vial 1	LWWTFMSD,,N00325i,1,3,3,MS,1,,,N1630L				
25	Vial 1	LWWTK1AC,,N00325i,1,,,,,,,N1630L				
26	Vial 1	LWWTM1AC,,N00325i,1,,,,,,,N1630L				
27	Vial 1	LWWTN1AA,,N00325i,1,,,,,,,N1630L				
28	Vial 1	LWWTQ1AC,,N00325i,1,,,,,,,N1630L				
29	Vial 1	LWN0E1AC,,N00325i,1,,,,,,,N1630L				
30	Vial 1	LWN0L1AC,,N00325i,1,,,,,,,N1630L				
31	Vial 1	LWN0M1AA,,N00325i,1,,,,,,,N1630L				
32	Vial 1	LWN0Q1AC,,N00325i,1,,,,,,,N1630L				
33	Vial 1	LWT391AC,,N00325i,1,,,,,,,N1630L SURR↓				
34	Vial 1	LWT4D1AC,,N00325i,1,,,,,,,N1630L				
35	Vial 1	LWT4E1AA,,N00325i,1,,,,,,,N1630L SURR↓				
36	Vial 1	LWT4G1AC,,N00325i,1,,,,,,,N1630L SURR↓				
37	Vial 1	LWWRW1AC,,N00325i,1,,,,,,,N1630L				
38	Vial 1	LWWRX1AA,,N00325i,1,,,,,,,N1630L SURR↓				
39	Vial 1	LWWR21AC,,N00325i,1,,,,,,,N1630L SURR↓ – report this run, SURR better				
40	Vial 1	CCV,,N00325i,1,,2,METHSPIKE,1,,,N1630L				
41	Vial 1	CCB,,N00325i,1,,3,INSTBLANK,,,,N1630L				
42	Vial 1	MB,,N00325i,1,,3,,,,,N1630L				
43	Vial 1	LCS,,N00325i,1,,3,LCS,1,,,N1630L				
44	Vial 1	LWNWX1AD,,N00325i,1,,,,,,,N1630L				
45	Vial 1	LWNW21AD,,N00325i,1,3,,,,,,N1630L				
46	Vial 1	LWNW21MS,,N00325i,1,3,3,MS,1,,,N1630L				
47	Vial 1	LWNW2MSD,,N00325i,1,3,3,MS,1,,,N1630L				
48	Vial 1	LWNW31AD,,N00325i,1,,,,,,,N1630L				
49	Vial 1	LWNW41AD,,N00325i,1,,,,,,,N1630L				
50	Vial 1	LWWM91AA,,N00325i,1,,,,,,,N1630L > report – NO more volume				
51	Vial 1	LWK281AA,,N00325i,1,,,,,,,N1630L				
52	Vial 1	LWK241AA,,N00325i,1,,,,,,,N1630L				
53	Vial 1	LWK291AA,,N00325i,1,,,,,,,N1630L				
54	Vial 1	LWWM61AA,,N00325i,1,,,,,,,N1630L				
55	Vial 1	LWWM81AA,,N00325i,1,,,,,,,N1630L				
56	Vial 1	LWWTF1AC,,N00325i,1,3,,,,,,N1630L				
57	Vial 1	LWT391AC,,N00325i,1,,,,,,,N1630L				
58	Vial 1	LWT4E1AA,,N00325i,1,,,,,,,N1630L				
59	Vial 1	LWT4G1AC,,N00325i,1,,,,,,,N1630L Report this RUN, SURR better				

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
60	Vial 1	LWWRX1AA,,N00325i,1,,,,,,,N1630L				
61	Vial 1	LWWR21AC,,N00325i,1,,,,,,,N1630L SURR↓				
62	Vial 1	LWK241AA,,N00325i,1,3,,,,,,N1630L BAD INJ				
63	Vial 1	LWK291AA,,N00325i,1,3,,,,,,N1630L SURR↓				
64	Vial 1	LWWM61AA,,N00325i,1,3,,,,,,N1630L SURR↓				
65	Vial 1	LWWM81AA,,N00325i,1,3,,,,,,N1630L SURR↓				
66	Vial 1	CCV,,N00325i,1,,2,METHSPIKE,1,,,N1630L Fail↓				
67	Vial 1	CCB,,N00325i,1,,3,INSTBLANK,,,,N1630L				
68	Vial 1	RINSE,,N00325i,1,,,,,,,N1630L				
69	Vial 1	RINSE,,N00325i,1,,,,,,,N1630L CCB				
70	Vial 1	RINSE,,N00325i,1,,,,,,,N1630L				
71	Vial 1	RINSE,,N00325i,1,,,,,,,N1630L CCV OK				
72	Vial 1					
73	Vial 1					

Sequence Table (Back Injector):

No entries - empty table!

Sequence Parameters:

Operator: 402582

Data File Naming: Prefix/Counter
Signal 1 Prefix: NF
Counter: 052701
Signal 2 Prefix: SIG2
Counter: 000001
Data Directory: C:\Chem32\1\DATA\

Due 5/31
6/1

Data Subdirectory: N00527

Part of Methods to run: According to Runtime Checklist

Barcode Reader: not used

Shutdown Cmd/Macro: none

Sequence Comment:
MeHgCl 0.2ppb Lot # 0715-09-01.1A 2ppb Lot # 0715-09-01.1A 40ppb Lot # 0615-09-01

n-PrHgCl 0.2ppb Lot # 0202-09-02 2ppb Lot # 0202-09-02 20ppb Lot # 0715-09-01.3

DL-Methionine Lot # 058H0124 KOH Lot # 05597LJ MeOH Lot # H46E44

Citric Acid Lot # 019K0157 Sodium Citrate Lot # 079K0092 Antifoam A Lot # 117K0047

Sodium tetraethylborate Lot # A8989058 CuSO4*5H2O Lot # 081286 ICV Std # 3698

KBr Lot # 086028 Hydroxylamine HCl Lot # G45667 H2SO4 Lot # G35029

Matrix	H_2O	SOLID	LOQ
Batch	0149019	0146087	0146086
QC W/O #	L1969	L1282	L128X
Level I	[illegible] 5/29/10		
Level II	[illegible] 6/1/10		
PDF	[illegible]		

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	RINSE,,N00527,1,,,,,,,N1630L				
2	Vial 1	RINSE,,N00527,1,,,,,,,N1630L				

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
3	Vial 1	CCV,,N00527,1,,2,METHSPIKE,1,,,N1630L				
4	Vial 1	CCB,,N005276,1,,3,INSTBLANK,,,,N1630L				
5	Vial 1	BLK,,N00527,1,,3,,,,,N1630L				
6	Vial 1	LCS,,N00527,1,,3,LCS,1,,,N1630L				
7	Vial 1	LCSD,,N005276,1,,3,LCS,1,,,N1630L				
8	Vial 1	L1H1C1AC,,N00527,1,,,,,,,N1630L SSL				
9	Vial 1	L1H1M1AC,,N00527,1,,,,,,,N1630L SSL				
10	Vial 1	L1GFE1AA,,N00527,1,,,,,,,N1630L SSL R/R				
11	Vial 1	L1GLG1AV,,N00527,1,,,,,,,N1630L				
12	Vial 1	L1GLP1AV,,N00527,1,,,,,,,N1630L				
13	Vial 1	L1GL21AV,,N00527,1,,,,,,,N1630L				
14	Vial 1	L1GL51AV,,N00527,1,,,,,,,N1630L				
15	Vial 1	L1J191AV,,N00527,1,,,,,,,N1630L				
16	Vial 1	BLK,,N00527,1,,3,,,,,N1630L				
17	Vial 1	LCS,,N00527,1,,3,LCS,1,,,N1630L				
18	Vial 1	LCSD,,N00527,1,,3,LCS,1,,,N1630L				
19	Vial 1	L1XLH1AA,,N00527,1,,,,,,,N1630L SSL ~~R/R~~ Report, confirm SSL				
20	Vial 1	L1XLJ1AA,,N00527,1,,,,,,,N1630L				
21	Vial 1	L1XLK1AA,,N00527,1,,,,,,,N1630L				
22	Vial 1	L1XLL1AA,,N00527,1,,,,,,,N1630L				
23	Vial 1	L1XLT1AA,,N00527,1,10,,,,,,N1630L RR 1x				
24	Vial 1	L1XLT1MS,,N00527,1,10,3,MS,1,,,N1630L				
25	Vial 1	L1XLTMSD,,N00527,1,10,3,MS,1,,,N1630L				
26	Vial 1	L1XLV1AA,,N00527,1,,,,,,,N1630L				
27	Vial 1	L1XLW1AA,,N00527,1,,,,,,,N1630L				
28	Vial 1	L1XLX1AA,,N00527,1,,,,,,,N1630L				
29	Vial 1	L1XL01AA,,N00527,1,,,,,,,N1630L				
30	Vial 1	L1XL11AA,,N00527,1,,,,,,,N1630L				
31	Vial 1	L1XL21AA,,N00527,1,,,,,,,N1630L				
32	Vial 1	L1XL31AA,,N00527,1,,,,,,,N1630L				
33	Vial 1	L1XL51AA,,N00527,1,,,,,,,N1630L				
34	Vial 1	CCV,,N00527,1,,2,METHSPIKE,1,,,N1630L				
35	Vial 1	CCB,,N00527,1,,3,INSTBLANK,,,,N1630L				
36	Vial 1	L12821AA,,N00527,,,3,,,,,N1630L				
37	Vial 1	L12821AC,,N00527,,,3,LCS,1,,,N1630L				
38	Vial 1	L128X1AD,,N00527,,,3,LCS,1,,,N1630L				
39	Vial 1	L0RHC1AA,4200,N00527,,,,,,,,N1630L				
40	Vial 1	L0RHD1AA,4200,N00527,,,,,,,,N1630L				
41	Vial 1	L1GFJ1AA,420,N00527,,,,,,,,N1630L RR 1x				
42	Vial 1	L1GFJ1AC,420,N00527,,,3,MS,1,,,N1630L				
43	Vial 1	L1GFJ1AD,420,N00527,,,3,MS,1,,,N1630L				
44	Vial 1	L1GM1AW,420,N00527,,,,,,,,N1630L GLM				
45	Vial 1	L1GL1AW,420,N00527,,,,,,,,N1630L GL1				
46	Vial 1	L1GL31AW,420,N00527,,,,,,,,N1630L GL3				
47	Vial 1	L1GMA1AW,420,N00527,,,,,,,,N1630L				
48	Vial 1	L1J171AW,420,N00527,,,,,,,,N1630L				
49	Vial 1	L1J2C1AW,420,N00527,,,,,,,,N1630L -LCS 2x Cu R/R @ 1x				
50	Vial 1	L1J2H1AW,420,N00527,,,,,,,,N1630L				
51	Vial 1	~~L1J2R1AW,~~420,N00527,,,,,,,,N1630L missing vials in autosampler				
52	Vial 1	~~L1XLM1AD,~~420,N00527,,,,,,,,N1630L				
53	Vial 1	L1J2R1AW,420,N00527,,,,,,,,N1630L R/R @ 1x				
54	Vial 1	L1XLM1AD,420,N00527,,,,,,,,N1630L				
55	Vial 1	L1XLN1AD,420,N00527,,,,,,,,N1630L				
56	Vial 1	L1XLP1AD,420,N00527,,,,,,,,N1630L				
57	Vial 1	L12NQ1AA,420,N00527,,,,,,,,N1630L				
58	Vial 1	L12NQ1AD,420,N00527,,,3,MS,1,,,N1630L				
59	Vial 1	L12NQ1AE,420,N00527,,,3,MS,1,,,N1630L				

5/28/10

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
60	Vial 1	L12NR1AA,420,N00527,,,,,,,,N1630L R/R 1x				
61	Vial 1	L12NT1AA,420,N00527,,,,,,,,N1630L				
62	Vial 1	L12NV1AA,420,N00527,,,,,,,,N1630L				
63	Vial 1	L12N41AA,420,N00527,,,,,,,,N1630L				
64	Vial 1	L12N51AA,420,N00527,,,,,,,,N1630L				
65	Vial 1	CCV,,N00527,1,,2,METHSPIKE,1,,,N1630L				
66	Vial 1	CCB,,N00527,1,,3,INSTBLANK,,,,N1630L				
67	Vial 1	L1GFE1AA,,N00527,1,,,,,,,N1630L				
68	Vial 1	L1XLH1AA,,N00527,1,,,,,,,N1630L SSV				
69	Vial 1	L1XLT1AA,,N00527,1,,,,,,,N1630L				
70	Vial 1	L1GFJ1AA,4200,N00527,,,,,,,,N1630L				
71	Vial 1	L1GFJ1AC,4200,N00527,,,3,MS,1,,,N1630L				
72	Vial 1	L1GFJ1AD,4200,N00527,,,3,MS,1,,,N1630L				
73	Vial 1	L1J171AW,4200,N00527,,,,,,,,N1630L				
74	Vial 1	L1J2C1AW,4200,N00527,,,,,,,,N1630L Re-extract				
75	Vial 1	L1J2H1AW,4200,N00527,,,,,,,,N1630L				
76	Vial 1	L1XLM1AD,4200,N00527,,,,,,,,N1630L SSV Re-extract				
77	Vial 1	L1XLN1AD,4200,N00527,,,,,,,,N1630L				
78	Vial 1	L1XLP1AD,4200,N00527,,,,,,,,N1630L				
79	Vial 1	L12NQ1AA,4200,N00527,,,,,,,,N1630L				
80	Vial 1	L12NQ1AD,4200,N00527,,,3,MS,1,,,N1630L				
81	Vial 1	L12NQ1AE,4200,N00527,,,3,MS,1,,,N1630L				
82	Vial 1	L12NR1AA,4200,N00527,,,,,,,,N1630L				
83	Vial 1	L12NT1AA,4200,N00527,,,,,,,,N1630L				
84	Vial 1	L12NV1AA,4200,N00527,,,,,,,,N1630L				
85	Vial 1	L12N41AA,4200,N00527,,,,,,,,N1630L				
86	Vial 1	L12N51AA,4200,N00527,,,,,,,,N1630L				
87	Vial 1	CCV,,N00527,1,,2,METHSPIKE,1,,,N1630L				
88	Vial 1	CCB,,N00527,1,,3,INSTBLANK,,,,N1630L				
89	Vial 1					
90	Vial 1					
91	Vial 1					
92	Vial 1					

Sequence Table (Back Injector):

No entries - empty table!

Sequence: C:\CHEM32\1\SEQUENCE\N00601.S

Sequence Parameters:

Operator: 402582

Data File Naming: Prefix/Counter
Signal 1 Prefix: NF
Counter: 060101
Signal 2 Prefix: SIG2
Counter: 000001
Data Directory: C:\Chem32\1\DATA\

Due 6/1

Data Subdirectory: N00601

Part of Methods to run: According to Runtime Checklist

Barcode Reader: not used

Shutdown Cmd/Macro: none

Sequence Comment:
MeHgCl 0.2ppb Lot # 0715-09-01.1A 2ppb Lot # 0715-09-01.1A 40ppb Lot # 0615-09-01

n-PrHgCl 0.2ppb Lot # 0202-09-02 2ppb Lot # 0202-09-02 20ppb Lot # 0715-09-01.3

DL-Methionine Lot # 058H0124 KOH Lot # 05597LJ MeOH Lot # H46E44

Citric Acid Lot # 019K0157 Sodium Citrate Lot # 079K0092 Antifoam A Lot # 117K0047

Sodium tetraethylborate Lot # A8989058 CuSO4*5H2O Lot # 081286 ICV Std # 3698

KBr Lot # 086028 Hydroxylamine HCl Lot # G45667 H2SO4 Lot # G35029

Matrix	SOLID	LOQ USGS	
Batch	0149021	0149020	
QC W/O #	L19HL	L19HN	
Level I	[illegible] 6/1/10		
Level II	[illegible]	6/2/10	
PDF	[illegible]		

Sequence Table (Front Injector):

Quantification Part:

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
1	Vial 1	RINSE,,N00601,1,,,,,,,N1630L				
2	Vial 1	RINSE,,N00601,1,,,,,,,N1630L				

Sequence: C:\CHEM32\1\SEQUENCE\N00601.S

Line	Location	SampleName	SampleAmount	ISTDAmt	Multiplier	Dilution
3	Vial 1	CCV,,N00601,1,,2,METHSPIKE,1,,,N1630L				
4	Vial 1	CCB,,N00601,1,,3,INSTBLANK,,,,N1630L				
5	Vial 1	L19HL1AA,4200,N00601,,,3,,,,,N1630L				
6	Vial 1	L19HL1AC,4200,N00601,,,3,LCS,1,,,N1630L				
7	Vial 1	L1J2C2AW,4200,N00601,,,,,,,,N1630L SS				
8	Vial 1	L1XLM2AD,4200,N00601,,,,,,,,N1630L SS				
9	Vial 1	L1J2C1AX,4200,N00601,,,3,MS,1,,,N1630L				
10	Vial 1	L1J2C1A0,4200,N00601,,,3,MS,1,,,N1630L				
11	Vial 1	CCV,,N00601,1,,2,METHSPIKE,1,,,N1630L				
12	Vial 1	CCB,,N00601,1,,3,INSTBLANK,,,,N1630L				
13	Vial 1	L19HN1AD,4200,N00601,,,3,LCS,1,,,N1630L				
14	Vial 1	L0RG71AA,4200,N00601,,,,,,,,N1630L				
15	Vial 1	L0RG81AA,4200,N00601,,,,,,,,N1630L				
16	Vial 1	L0RG91AA,4200,N00601,,,,,,,,N1630L				
17	Vial 1	L0RHA1AA,4200,N00601,,,,,,,,N1630L				
18	Vial 1	CCV,,N00601,1,,2,METHSPIKE,1,,,N1630L				
19	Vial 1	CCB,,N00601,1,,3,INSTBLANK,,,,N1630L				
20	Vial 1					
21	Vial 1					
22	Vial 1					
23	Vial 1					
24	Vial 1					

LOW Recoveries

Sequence Table (Back Injector):

No entries - empty table!

pH/Free Chlorine Worksheet

Lot: A0E210615

A0E210615

Sample	Work Order	SAC	Client Sample ID	pH	Free Chlorine
1	L1XLH-1AA	XX I NY E& 01	09HMMW	<2	NA
2	L1XLJ-1AA	XX I NY E& 01	01CMMW	<2	NA
3	L1XLK-1AA	XX I NY E& 01	03CMMW	<2	NA
4	L1XLL-1AA	XX I NY E& 01	07CMMW	<2	NA
9	L1XLT-1AA	XX I NY E& 01	01SMMW	<2	NA
10	L1XLV-1AA	XX I NY E& 01	04SMMW	<2	NA
11	L1XLW-1AA	XX I NY E& 01	06SMMW	<2	NA
12	L1XLX-1AA	XX I NY E& 01	07SMMW	<2	NA
13	L1XL0-1AA	XX I NY E& 01	09SMMW	<2	NA
14	L1XL1-1AA	XX I NY E& 01	01HMMW	<2	NA
15	L1XL2-1AA	XX I NY E& 01	03HMSW	<2	NA
16	L1XL3-1AA	XX I NY E& 01	04HMMW	<2	NA
17	L1XL5-1AA	XX I NY E& 01	06HMMW	<2	NA

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

Run Date: 6/3/2010
Time: 13:47:30

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
Y	Y	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
					computer batch: correct &
			_	_	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
Bench Sheet Copied per COC

xtractionist: 402582 Ray Shock

oncentrationist:

eviewer/Date: SHOCKR / 5/29/10

QC BATCH: 0146087

PREP DATE: 5/26/10
COMP DATE: 5/26/10

Methyl Mercury, 1630
USGS Methyl Mercury Prep

XTR XPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
/	6/02/10	A0E250528-001 **L12NQ-1-AD S**	B	US	E&	SOLID	0.9765g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	25UL MEHG#0615-09-01 50UL PRHG#0715-09-01.3
MMENTS:															
/	6/02/10	A0E250528-001 **L12NQ-1-AE D**	B	US	E&	SOLID	1.0346g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	25UL MEHG#0615-09-01 50UL PRHG#0715-09-01.3
MMENTS:															
/	5/31/10	G0E130537-002 **L1GFJ-1-AC S**	M	US	E&	SOLID	0.9811g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	25UL MEHG#0615-09-01 50UL PRHG#0715-09-01.3
MMENTS:															
/	5/31/10	G0E130537-002 **L1GFJ-1-AD D**	M	US	E&	SOLID	1.0066g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	25UL MEHG#0615-09-01 50UL PRHG#0715-09-01.3
MMENTS:															
/	/0/	A0E260000-087 **L1282-1-AC C**		US	E&	SOLID	1g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	25UL MEHG#0615-09-01 50UL PRHG#0715-09-01.3
MMENTS:															

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0146087

PREP DATE: 5/26/10
COMP DATE: 5/26/10

XTR XPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
/	/0/	A0E260000-087 **L1282-1-AA B**		US	E&	SOLID	1g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	50UL PRHG#0715-09-01.3
MMENTS:															
/	6/01/10	A0E210615-005 **L1XLM-1-AD**	D	US	E&	SOLID	0.9891g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	50UL PRHG#0715-09-01.3
MMENTS:															
/	6/01/10	A0E210615-006 **L1XLN-1-AD**	D	US	E&	SOLID	1.0289g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	50UL PRHG#0715-09-01.3
MMENTS:															
/	6/01/10	A0E210615-007 **L1XLP-1-AD**	D	US	E&	SOLID	0.9651g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	50UL PRHG#0715-09-01.3
MMENTS:															
/	6/04/10	G0E140589-007 **L1J2H-1-AW**	M	US	E&	SOLID	0.9624g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	50UL PRHG#0715-09-01.3
MMENTS:															
/	6/02/10	A0E250528-002 **L12NR-1-AA**	B	US	E&	SOLID	1.0103g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	50UL PRHG#0715-09-01.3
MMENTS:															
/	6/02/10	A0E250528-003 **L12NT-1-AA**	B	US	E&	SOLID	0.9729g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	50UL PRHG#0715-09-01.3
MMENTS:															
/	6/02/10	A0E250528-004 **L12NV-1-AA**	B	US	E&	SOLID	0.9947g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	50UL PRHG#0715-09-01.3
MMENTS:															
/	6/02/10	A0E250528-001 **L12NQ-1-AA**	B	US	E&	SOLID	0.9518g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	50UL PRHG#0715-09-01.3
MMENTS:															

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0146087

PREP DATE: 5/26/10
COMP DATE: 5/26/10

XTR XPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
/	6/02/10	A0E250529-001 **L12N4-1-AA**	B	US	E&	SOLID	1.0107g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	
MMENTS:															50UL PRHG#0715-09-01.3
/	6/02/10	A0E250529-002 **L12N5-1-AA**	B	US	E&	SOLID	1.0461g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	
MMENTS:															50UL PRHG#0715-09-01.3
/	6/04/10	G0E140589-009 **L1J2R-1-AW**	M	US	E&	SOLID	1.003g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	
MMENTS:															50UL PRHG#0715-09-01.3
/	6/04/10	G0E140589-003 **L1J17-1-AW**	M	US	E&	SOLID	1.039g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	
MMENTS:															50UL PRHG#0715-09-01.3
/	6/04/10	G0E140589-005 **L1J2C-1-AW**	M	US	E&	SOLID	0.9718g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	
MMENTS:															50UL PRHG#0715-09-01.3
/	5/31/10	G0E130537-010 **L1GMA-1-AW**	M	US	E&	SOLID	1.0139g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	
MMENTS:															50UL PRHG#0715-09-01.3
/	5/31/10	G0E130537-004 **L1GLM-1-AW**	M	US	E&	SOLID	1.0324g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	
MMENTS:															50UL PRHG#0715-09-01.3
/	5/31/10	G0E130537-006 **L1GL1-1-AW**	M	US	E&	SOLID	0.9796g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	
MMENTS:															50UL PRHG#0715-09-01.3
/	5/31/10	G0E130537-008 **L1GL3-1-AW**	M	US	E&	SOLID	1.0266g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	
MMENTS:															50UL PRHG#0715-09-01.3

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0146087

PREP DATE: 5/26/10
COMP DATE: 5/26/10

XTR XPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
/	5/31/10	G0E130537-002 **L1GFJ-1-AA**	M	US	E&	SOLID	1.0114g 39.00mL	0.0	4	NA	DCM	10.0	H2O	43.0	50UL PRHG#0715-09-01.3

MMENTS:

NUMBER OF WORK ORDERS IN BATCH: 24

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

Run Date: 6/3/2010
Time: 13:47:30

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
Y	Y	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets computer batch: correct & Anomalies to Extraction Method
			_	_	

_ Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup Bench Sheet Copied per COC

xtractionist: 402582 Ray Shock

oncentrationist:

eviewer/Date: SHOCKR / 5/29/10

****
* QC BATCH: 0149019 *
****

PREP DATE: 5/27/10
COMP DATE: 5/27/10

Methyl Mercury, 1630
PURGE AND TRAP-25 mL Purge - DERIVATIZATION-Methyl Mercury

XTR XPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
/	6/01/10	A0E210615-012 **L1XLX-1-AA**	D	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	9.75UL PRHG#0202-09-02
MMENTS:															
/	6/01/10	A0E210615-009 **L1XLT-1-AA**	D	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	9.75UL PRHG#0202-09-02
MMENTS:															
/	6/01/10	A0E210615-010 **L1XLV-1-AA**	D	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	9.75UL PRHG#0202-09-02
MMENTS:															
/	6/01/10	A0E210615-011 **L1XLW-1-AA**	D	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	9.75UL PRHG#0202-09-02
MMENTS:															
/	6/01/10	A0E210615-002 **L1XLJ-1-AA**	D	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	9.75UL PRHG#0202-09-02
MMENTS:															

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0149019

PREP DATE: 5/27/10
COMP DATE: 5/27/10

XTR XPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
/	6/01/10	A0E210615-003 **L1XLK-1-AA**	D	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	
MMENTS:															9.75UL PRHG#0202-09-02
/	6/01/10	A0E210615-004 **L1XLL-1-AA**	D	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	
MMENTS:															9.75UL PRHG#0202-09-02
/	6/01/10	A0E210615-016 **L1XL3-1-AA**	D	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	
MMENTS:															9.75UL PRHG#0202-09-02
/	6/01/10	A0E210615-017 **L1XL5-1-AA**	D	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	
MMENTS:															9.75UL PRHG#0202-09-02
/	6/01/10	A0E210615-001 **L1XLH-1-AA**	D	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	
MMENTS:															9.75UL PRHG#0202-09-02
/	6/01/10	A0E210615-013 **L1XL0-1-AA**	D	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	
MMENTS:															9.75UL PRHG#0202-09-02
/	6/01/10	A0E210615-014 **L1XL1-1-AA**	D	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	
MMENTS:															9.75UL PRHG#0202-09-02
/	6/01/10	A0E210615-015 **L1XL2-1-AA**	D	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	
MMENTS:															9.75UL PRHG#0202-09-02
/	5/31/10	G0E130537-003 **L1GLG-1-AV**	M	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	
MMENTS:															9.75UL PRHG#0202-09-02

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0149019

PREP DATE: 5/27/10
COMP DATE: 5/27/10

XTR XPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
/	5/31/10	G0E130537-005 **L1GLP-1-AV**	M	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	
MMENTS:															9.75UL PRHG#0202-09-02
/	6/04/10	G0E140589-004 **L1J19-1-AV**	M	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	
MMENTS:															9.75UL PRHG#0202-09-02
/	5/31/10	G0E130537-007 **L1GL2-1-AV**	M	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	
MMENTS:															9.75UL PRHG#0202-09-02
/	5/31/10	G0E130537-009 **L1GL5-1-AV**	M	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	
MMENTS:															9.75UL PRHG#0202-09-02
/	5/31/10	G0E130537-001 **L1GFE-1-AA**	M	NY	E&	WATER	39mL 39.00mL	2.0	4	NA		0.0		0.0	
MMENTS:															9.75UL PRHG#0202-09-02
/	/0/	A0E290000-019 **L19G9-1-AA B**		NY	E&	WATER	39mL 39.00mL	7.0	4	NA		0.0		0.0	
MMENTS:															9.75UL PRHG#0202-09-02
/	/0/	A0E290000-019 **L19G9-1-AC C**		NY	E&	WATER	39mL 39.00mL	7.0	4	NA		0.0		0.0	
MMENTS:															9.75UL MEHG#0715-09-01.1A 9.75UL PRHG#0202-09-02
/	/0/	A0E290000-019 **L19G9-1-AD L**		NY	E&	WATER	39mL 39.00mL	7.0	4	NA		0.0		0.0	
MMENTS:															9.75UL MEHG#0715-09-01.1A 9.75UL PRHG#0202-09-02

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0149019

PREP DATE: 5/27/10
COMP DATE: 5/27/10

XTR XPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID

NUMBER OF WORK ORDERS IN BATCH: 22

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

Run Date: 6/3/2010
Time: 13:47:30

LEV 1	LEV 2		LEV 1	LEV 2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
Y	Y	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets computer batch: correct &
			_	_	Anomalies to Extraction Method

Y Expanded Deliverable
Y COC Completed
Y Bench Sheet Copied
_ Package Submitted to AnalyticalGroup Bench Sheet Copied per COC

xtractionist: 402582 Ray Shock

oncentrationist:

eviewer/Date: SHOCKR / 6/01/10

QC BATCH: 0149021

PREP DATE: 5/29/10
COMP DATE: 5/29/10

Methyl Mercury, 1630
USGS Methyl Mercury Prep

XTR XPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
/	6/01/10	A0E210615-005 **L1XLM-2-AD**	D	US	E&	SOLID	0.9551g 39.00mL	0.0	NA	NA	DCM	10.0	H2O	43.0	
MMENTS:														50UL	PRHG#0715-09-01.3
/	/0/	A0E290000-021 **L19HL-1-AC C**		US	E&	SOLID	1g 39.00mL	0.0	NA	NA	DCM	10.0	H2O	43.0	
MMENTS:														25UL	MEHG#0615-09-01
														50UL	PRHG#0715-09-01.3
/	6/04/10	G0E140589-005 **L1J2C-1-A0 D**	M	US	E&	SOLID	0.9978g 39.00mL	0.0	NA	NA	DCM	10.0	H2O	43.0	
MMENTS:														25UL	MEHG#0615-09-01
														50UL	PRHG#0715-09-01.3
/	6/04/10	G0E140589-005 **L1J2C-1-AX S**	M	US	E&	SOLID	1.0406g 39.00mL	0.0	NA	NA	DCM	10.0	H2O	43.0	
MMENTS:														25UL	MEHG#0615-09-01
														50UL	PRHG#0715-09-01.3
/	6/04/10	G0E140589-005 **L1J2C-2-AW**	M	US	E&	SOLID	1.017g 39.00mL	0.0	NA	NA	DCM	10.0	H2O	43.0	
MMENTS:														50UL	PRHG#0715-09-01.3

TestAmerica Laboratories, Inc.
EXTRACTION BENCH SHEET

QC BATCH: 0149021

PREP DATE: 5/29/10
COMP DATE: 5/29/10

XTR XPR	ANL DUE	LOT#, MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
/	/0/	A0E290000-021 **L19HL-1-AA B**		US	E&	SOLID	1g 39.00mL	0.0	NA	NA	DCM	10.0	H2O	43.0	50UL PRHG#0715-09-01.3

MMENTS:

NUMBER OF WORK ORDERS IN BATCH: 6

Lot/SDG Number: A0E210615

Sample Control Chain of Custody - TAL North Canton
GC Volatiles

Lot Number	Sample	Work Order	Analysis Type	Analysis Date	Analyst
A0E210615	1	L1XLH1AA	Methyl Mercury, 1630	05/28/10	Ray Shock
A0E210615	2	L1XLJ1AA	Methyl Mercury, 1630	05/28/10	Ray Shock
A0E210615	3	L1XLK1AA	Methyl Mercury, 1630	05/28/10	Ray Shock
A0E210615	4	L1XLL1AA	Methyl Mercury, 1630	05/28/10	Ray Shock
A0E210615	5	L1XLM1AD	Methyl Mercury, 1630	05/28/10	Ray Shock
A0E210615	5	L1XLM2AD	Methyl Mercury, 1630	06/01/10	Ray Shock
A0E210615	6	L1XLN1AD	Methyl Mercury, 1630	05/28/10	Ray Shock
A0E210615	7	L1XLP1AD	Methyl Mercury, 1630	05/28/10	Ray Shock
A0E210615	9	L1XLT1AA	Methyl Mercury, 1630	05/28/10	Ray Shock
A0E210615	10	L1XLV1AA	Methyl Mercury, 1630	05/28/10	Ray Shock
A0E210615	11	L1XLW1AA	Methyl Mercury, 1630	05/28/10	Ray Shock
A0E210615	12	L1XLX1AA	Methyl Mercury, 1630	05/28/10	Ray Shock
A0E210615	13	L1XL01AA	Methyl Mercury, 1630	05/28/10	Ray Shock
A0E210615	14	L1XL11AA	Methyl Mercury, 1630	05/28/10	Ray Shock
A0E210615	15	L1XL21AA	Methyl Mercury, 1630	05/28/10	Ray Shock
A0E210615	16	L1XL31AA	Methyl Mercury, 1630	05/28/10	Ray Shock
A0E210615	17	L1XL51AA	Methyl Mercury, 1630	05/28/10	Ray Shock

METALS DATA

FORMS DATA

TestAmerica Seattle

Client Sample ID: 09HMMW

TOTAL Metals

Lot-Sample #...: A0E210615-001 **Matrix.....:** WG
Date Sampled...: 05/16/10 11:15 **Date Received..:** 05/21/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147253						
Mercury	**188**	**10.0**	**ng/L**	**CFR136A 1631E**	**05/27-05/28/10**	**L1XLH1AC**
		Dilution Factor: 20		Analysis Time..: 08:32	Analyst ID.....: 006531	
		Instrument ID..: H3		MDL.....: 2.4		

TestAmerica Seattle

Client Sample ID: 01CMMW

TOTAL Metals

Lot-Sample #...: A0E210615-002 **Matrix.....:** WG
Date Sampled...: 05/15/10 13:50 **Date Received..:** 05/21/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147253						
Mercury	**4.2**	**0.50**	**ng/L**	**CFR136A 1631E**	**05/27-05/28/10**	**L1XLJ1AC**
		Dilution Factor: 1		Analysis Time..: 08:41	Analyst ID.....: 006531	
		Instrument ID..: H3		MDL.....: 0.12		

TestAmerica Seattle

Client Sample ID: 03CMMW

TOTAL Metals

Lot-Sample #...: A0E210615-003 **Matrix.....:** WG
Date Sampled...: 05/16/10 16:25 **Date Received..:** 05/21/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147253						
Mercury	**8.7**	**0.50**	**ng/L**	**CFR136A 1631E**	**05/27-05/28/10**	**L1XLK1AC**
		Dilution Factor: 1		Analysis Time..: 08:50	Analyst ID.....: 006531	
		Instrument ID..: H3		MDL.....: 0.12		

TestAmerica Seattle

Client Sample ID: 07CMMW

TOTAL Metals

Lot-Sample #...: A0E210615-004 **Matrix.....:** WG
Date Sampled...: 05/16/10 15:45 **Date Received..:** 05/21/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147253						
Mercury	**8.6**	**0.50**	**ng/L**	**CFR136A 1631E**	**05/27-05/28/10**	**L1XLL1AC**
		Dilution Factor: 1		Analysis Time..: 09:15	Analyst ID.....: 006531	
		Instrument ID..: H3		MDL.....: 0.12		

TestAmerica Seattle

Client Sample ID: 01HMSD

TOTAL Metals

Lot-Sample #...: A0E210615-005 **Matrix.....:** SO
Date Sampled...: 05/04/10 13:00 **Date Received..:** 05/21/10
% Moisture.....: 68

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147015						
Mercury	**1.2**	**0.32**	**mg/kg**	**SW846 7471A**	**05/27-05/28/10**	**L1XLM1AE**
		Dilution Factor: 1		Analysis Time..: 12:03	Analyst ID.....: 000079	
		Instrument ID..: H1		MDL.....: 0.047		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Seattle

Client Sample ID: 02HMSD

TOTAL Metals

Lot-Sample #...: A0E210615-006 **Matrix.....:** SO
Date Sampled...: 05/04/10 15:45 **Date Received..:** 05/21/10
% Moisture.....: 7.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147015						
Mercury	**53.6**	**5.4**	**mg/kg**	**SW846 7471A**	**05/27-05/28/10**	**L1XLN1AE**
		Dilution Factor: 50		Analysis Time..: 12:46	Analyst ID.....: 000079	
		Instrument ID..: H1		MDL.....: 0.81		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Seattle

Client Sample ID: 03HMSD

TOTAL Metals

Lot-Sample #...: A0E210615-007 **Matrix.....:** SO
Date Sampled...: 05/07/10 13:39 **Date Received..:** 05/21/10
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147015						
Mercury	**0.15**	**0.12**	**mg/kg**	**SW846 7471A**	**05/27-05/28/10**	**L1XLP1AE**
		Dilution Factor: 1		Analysis Time..: 11:57	Analyst ID.....: 000079	
		Instrument ID..: H1		MDL.....: 0.019		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Seattle

Client Sample ID: 03CSBG

TOTAL Metals

Lot-Sample #...: A0E210615-008 **Matrix.....:** SO
Date Sampled...: 05/16/10 15:10 **Date Received..:** 05/21/10
% Moisture.....: 3.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147015						
Mercury	**0.11**	**0.10**	**mg/kg**	**SW846 7471A**	**05/27-05/28/10**	**L1XLQ1AD**
		Dilution Factor: 1		Analysis Time..: 11:55	Analyst ID.....: 000079	
		Instrument ID..: H1		MDL.....: 0.015		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

TestAmerica Seattle

Client Sample ID: 01SMMW

TOTAL Metals

Lot-Sample #...: A0E210615-009 **Matrix.....:** WG
Date Sampled...: 05/15/10 12:00 **Date Received..:** 05/21/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147253						
Mercury	**240**	**20.0**	**ng/L**	**CFR136A 1631E**	**05/27-05/28/10**	**L1XLT1AC**
		Dilution Factor: 40		Analysis Time..: 09:24	Analyst ID.....: 006531	
		Instrument ID..: H3		MDL.....: 4.8		

TestAmerica Seattle

Client Sample ID: 04SMMW

TOTAL Metals

Lot-Sample #...: A0E210615-010 **Matrix.....:** WG
Date Sampled...: 05/14/10 18:45 **Date Received..:** 05/21/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147253						
Mercury	**75.6**	**2.5**	**ng/L**	**CFR136A 1631E**	**05/27-05/28/10**	**L1XLV1AC**
		Dilution Factor: 5		Analysis Time..: 09:32	Analyst ID.....: 006531	
		Instrument ID..: H3		MDL.....: 0.60		

TestAmerica Seattle

Client Sample ID: 06SMMW

TOTAL Metals

Lot-Sample #...: A0E210615-011 **Matrix.....:** WG
Date Sampled...: 05/14/10 16:55 **Date Received..:** 05/21/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147253						
Mercury	**63.4**	**2.5**	**ng/L**	**CFR136A 1631E**	**05/27-05/28/10**	**L1XLW1AC**
		Dilution Factor: 5		Analysis Time..: 09:41	Analyst ID.....: 006531	
		Instrument ID..: H3		MDL.....: 0.60		

TestAmerica Seattle

Client Sample ID: 07SMMW

TOTAL Metals

Lot-Sample #...: A0E210615-012 **Matrix.....:** WG
Date Sampled...: 05/14/10 14:20 **Date Received..:** 05/21/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147253						
Mercury	**51.8**	**2.5**	**ng/L**	**CFR136A 1631E**	**05/27-05/28/10**	**L1XLX1AC**
		Dilution Factor: 5		Analysis Time..: 09:49	Analyst ID.....: 006531	
		Instrument ID..: H3		MDL.....: 0.60		

TestAmerica Seattle

Client Sample ID: 09SMMW

TOTAL Metals

Lot-Sample #...: A0E210615-013 **Matrix.....:** WG
Date Sampled...: 05/14/10 13:30 **Date Received..:** 05/21/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147253						
Mercury	**77.8**	**2.5**	**ng/L**	**CFR136A 1631E**	**05/27-05/28/10**	**L1XL01AC**
		Dilution Factor: 5		Analysis Time..: 07:50	Analyst ID.....: 006531	
		Instrument ID..: H3		MDL.....: 0.60		

TestAmerica Seattle

Client Sample ID: 01HMMW

TOTAL Metals

Lot-Sample #...: A0E210615-014 **Matrix.....:** WG
Date Sampled...: 05/16/10 08:00 **Date Received..:** 05/21/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147253						
Mercury	**20.6**	**0.50**	**ng/L**	**CFR136A 1631E**	**05/27-05/28/10**	**L1XL11AC**
		Dilution Factor: 1		Analysis Time..: 07:58	Analyst ID.....: 006531	
		Instrument ID..: H3		MDL.....: 0.12		

TestAmerica Seattle

Client Sample ID: 03HMSW

TOTAL Metals

Lot-Sample #...: A0E210615-015 **Matrix.....:** WG
Date Sampled...: 05/16/10 08:30 **Date Received..:** 05/21/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147253						
Mercury	**9.6**	**0.50**	**ng/L**	**CFR136A 1631E**	**05/27-05/28/10**	**L1XL21AC**
		Dilution Factor: 1		Analysis Time..: 08:07	Analyst ID.....: 006531	
		Instrument ID..: H3		MDL.....: 0.12		

TestAmerica Seattle

Client Sample ID: 04HMMW

TOTAL Metals

Lot-Sample #...: A0E210615-016 **Matrix.....:** WG
Date Sampled...: 05/16/10 10:00 **Date Received..:** 05/21/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147253						
Mercury	**95.9**	**2.5**	**ng/L**	**CFR136A 1631E**	**05/27-05/28/10**	**L1XL31AC**
		Dilution Factor: 5		Analysis Time..: 08:15	Analyst ID.....: 006531	
		Instrument ID..: H3		MDL.....: 0.60		

TestAmerica Seattle

Client Sample ID: 06HMMW

TOTAL Metals

Lot-Sample #...: A0E210615-017 **Matrix.....:** WG
Date Sampled...: 05/16/10 12:00 **Date Received..:** 05/21/10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147253						
Mercury	**19.9**	**0.50**	**ng/L**	**CFR136A 1631E**	**05/27-05/28/10**	**L1XL51AC**
		Dilution Factor: 1		Analysis Time..: 08:24	Analyst ID.....: 006531	
		Instrument ID..: H3		MDL.....: 0.12		

TestAmerica Seattle

Client Sample ID: 01HMBG

TOTAL Metals

Lot-Sample #...: A0E210615-018 **Matrix.....:** SO
Date Sampled...: 05/07/10 08:25 **Date Received..:** 05/21/10
% Moisture.....: 26

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 0147015						
Mercury	**83.4**	**13.5**	**mg/kg**	**SW846 7471A**	**05/27-05/28/10**	**L1XL61AD**
		Dilution Factor: 100		Analysis Time..: 13:00	Analyst ID.....: 000079	
		Instrument ID..: H1		MDL.....: 2.0		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0E210615 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A0E270000-015 **Prep Batch #...:** 0147015						
Mercury	ND	0.10	mg/kg	SW846 7471A	05/27-05/28/10	L14X51AA

Dilution Factor: 1

Analysis Time..: 11:48 Analyst ID.....: 000079 Instrument ID..: H1

NOTE(S):

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

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A0E210615 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A0E270000-253 **Prep Batch #...:** 0147253						
Mercury	ND	0.50	ng/L	CFR136A 1631E	05/27-05/28/10	L155W1AA

Dilution Factor: 1

Analysis Time..: 07:33 Analyst ID.....: 006531 Instrument ID..: H3

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0E210615 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0E270000-015 **Prep Batch #...:** 0147015					
Mercury	107	(73 - 121)	SW846 7471A	05/27-05/28/10	L14X51A0

Dilution Factor: 1 Analysis Time..: 11:49 Analyst ID.....: 000079
Instrument ID..: H1

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0E210615 **Matrix.....:** SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0E270000-015 **Prep Batch #...:** 0147015							
Mercury	0.83	0.89	mg/kg	107	SW846 7471A	05/27-05/28/10	L14X51A0

Dilution Factor: 1 Analysis Time..: 11:49 Analyst ID.....: 000079
Instrument ID..: H1

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0E210615 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0E270000-253 **Prep Batch #...:** 0147253					
Mercury	100	(77 - 125)	CFR136A 1631E	05/27-05/28/10	L155W1AC

Dilution Factor: 1 Analysis Time..: 07:41 Analyst ID.....: 006531
Instrument ID..: H3

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0E210615 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A0E270000-253 **Prep Batch #...:** 0147253							
Mercury	5.0	5.0	ng/L	100	CFR136A 1631E	05/27-05/28/10	L155W1AC

Dilution Factor: 1 Analysis Time..: 07:41 Analyst ID.....: 006531
Instrument ID..: H3

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0E210615 **Matrix.....:** WATER
Date Sampled...: 05/20/10 14:15 **Date Received..:** 05/24/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A0E240443-002 **Prep Batch #...:** 0147253							
Mercury	90	(71 - 125)			CFR136A 1631E	05/27-05/28/10	L10291AD
	123 *	(71 - 125)	25	(0-24)	CFR136A 1631E	05/27-05/28/10	L10291AE

Dilution Factor: 5
Analysis Time..: 16:37 Instrument ID..: H3 Analyst ID.....: 006531

NOTE(S):

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

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0E210615 **Matrix.....:** WATER
Date Sampled...: 05/20/10 14:15 **Date Received..:** 05/24/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A0E240443-002 **Prep Batch #...:** 0147253									
Mercury									
	1.2	5.0	5.7	ng/L	90		CFR136A 1631E	05/27-05/28/10	L10291AD
	1.2	5.0	7.4 *	ng/L	123	25	CFR136A 1631E	05/27-05/28/10	L10291AE

Dilution Factor: 5
Analysis Time..: 16:37 Instrument ID..: H3 Analyst ID.....: 006531

NOTE(S):

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

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A0E210615 **Matrix.....:** WATER
Date Sampled...: 05/25/10 13:00 **Date Received..:** 05/26/10

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: C0E260537-002 **Prep Batch #...:** 0147253							
Mercury	77	(71 - 125)			CFR136A 1631E	05/27-05/28/10	L13691AD
	79	(71 - 125)	1.1	(0-24)	CFR136A 1631E	05/27-05/28/10	L13691AE

Dilution Factor: 5
Analysis Time..: 13:46 Instrument ID..: H3 Analyst ID.....: 006531

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: A0E210615 **Matrix.....:** WATER
Date Sampled...: 05/25/10 13:00 **Date Received..:** 05/26/10

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: C0E260537-002 **Prep Batch #...:** 0147253									
Mercury									
	7.0	5.0	10.8	ng/L	77		CFR136A 1631E	05/27-05/28/10	L13691AD
	7.0	5.0	10.9	ng/L	79	1.1	CFR136A 1631E	05/27-05/28/10	L13691AE

Dilution Factor: 5
Analysis Time..: 13:46 Instrument ID..: H3 Analyst ID.....: 006531

NOTE(S):

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

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: CVAA **Units:** ppt

Chart Number: hg30518c.prn **Acceptable Range:** 80% - 120%

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

Element	WL/ Mass	True Conc	ICV 05/18/10 1:50 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.11	**102.3**								

Metals Data Reporting Form

Initial Calibration Verification Standard

Instrument: CVAA **Units:** ug/L

Chart Number: hg10528a.prn **Acceptable Range:** 90% - 110%

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

Element	WL/ Mass	True Conc	Ck5ICV 05/28/10 11:28 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	2.5	2.52	**100.7**								

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ppt

Chart Number: hg30518c.prn **Acceptable Range:** 77% - 123%

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

Element	WL/ Mass	True Conc	CCV 05/18/10 2:07 PM Found	% Rec	CCV 05/18/10 3:49 PM Found	% Rec	CCV 05/18/10 5:32 PM Found	% Rec	CCV 05/18/10 7:06 PM Found	% Rec	CCV 05/19/10 7:20 AM Found	% Rec
Mercury	253.7	5.0	5.23	**104.5**	5.29	**105.8**	4.66	**93.1**	5.04	**100.8**	5.05	**101.0**

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ppt

Chart Number: hg30518c.prn **Acceptable Range:** 77% - 123%

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

Element	WL/ Mass	True Conc	CCV 05/19/10 9:02 AM		CCV 05/19/10 10:45 AM		CCV 05/19/10 12:36 PM		CCV 05/19/10 2:19 PM		CCV 05/19/10 4:02 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	4.74	**94.7**	4.76	**95.2**	4.74	**94.8**	4.59	**91.9**	4.63	**92.6**

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ppt

Chart Number: hg30518c.prn **Acceptable Range:** 77% - 123%

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

Element	WL/ Mass	True Conc	CCV 05/19/10 5:44 PM		CCV 05/19/10 7:10 PM		CCV 05/20/10 7:09 AM		CCV 05/20/10 8:51 AM		CCV 05/20/10 10:34 AM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	4.70	**93.9**	4.50	**89.9**	5.08	**101.6**	5.00	**100.0**	5.70	**114.1**

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ppt

Chart Number: hg30518c.prn **Acceptable Range:** 77% - 123%

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

Element	WL/ Mass	True Conc	CCV 05/20/10 12:17 PM		CCV 05/20/10 2:00 PM		CCV 05/20/10 3:42 PM		CCV 05/20/10 5:25 PM		CCV 05/20/10 6:50 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.49	**109.7**	5.52	**110.4**	5.52	**110.3**	5.11	**102.2**	4.83	**96.5**

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ppt

Chart Number: hg30518c.prn **Acceptable Range:** 77% - 123%

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

Element	WL/ Mass	True Conc	CCV 05/21/10 6:29 AM		CCV 05/21/10 8:11 AM		CCV 05/21/10 9:54 AM		CCV 05/21/10 11:46 AM		CCV 05/21/10 1:28 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.42	**108.5**	4.64	**92.7**	4.99	**99.9**	4.70	**94.0**	4.31	**86.3**

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ppt

Chart Number: hg30518c.prn **Acceptable Range:** 77% - 123%

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

Element	WL/ Mass	True Conc	CCV 05/21/10 3:20 PM		CCV 05/21/10 5:02 PM		CCV 05/21/10 6:28 PM		CCV 05/24/10 8:12 AM		CCV 05/24/10 9:55 AM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	4.61	**92.3**	4.39	**87.8**	4.78	**95.6**	5.08	**101.6**	5.27	**105.3**

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ppt

Chart Number: hg30518c.prn **Acceptable Range:** 77% - 123%

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

Element	WL/ Mass	True Conc	CCV 05/24/10 11:37 AM		CCV 05/24/10 1:20 PM		CCV 05/24/10 3:03 PM		CCV 05/24/10 3:54 PM		CCV 05/25/10 8:06 AM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	4.78	**95.6**	4.76	**95.3**	4.72	**94.4**	4.73	**94.7**	6.24	**124.8**

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ppt

Chart Number: hg30518c.prn **Acceptable Range:** 77% - 123%

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

Element	WL/ Mass	True Conc	CCV 05/25/10 8:23 AM		CCV 05/25/10 8:58 AM		CCV 05/25/10 10:40 AM					
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.73	**114.7**	5.42	**108.4**	5.36	**107.3**				

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ug/L

Chart Number: hg10528a.prn **Acceptable Range:** 80% - 120%

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

Element	WL/ Mass	True Conc	Ck2CCV 05/28/10 11:31 AM		Ck2CCV 05/28/10 11:45 AM		Ck2CCV 05/28/10 12:00 PM		Ck2CCV 05/28/10 12:14 PM		Ck2CCV 05/28/10 12:37 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.27	**105.4**	5.32	**106.3**	4.90	**98.0**	4.51	**90.3**	5.36	**107.3**

Metals Data Reporting Form

Continuing Calibration Verification

Instrument: CVAA **Units:** ug/L

Chart Number: hg10528a.prn **Acceptable Range:** 80% - 120%

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

Element	WL/ Mass	True Conc	Ck2CCV 05/28/10 12:48 PM Found	% Rec	Ck2CCV 05/28/10 12:54 PM Found	% Rec	Ck2CCV 05/28/10 1:01 PM Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	5.0	5.29	**105.7**	5.30	**106.0**	5.24	**104.8**				

Metals Data Reporting Form

Contract Required Detection Limit Standard

Instrument: CVAA **Units:** ug/L

Chart Number: hg10528a.prn **Acceptable Range:** 50% - 150%

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

Element	WL/ Mass	True Conc	Ck3CRA\MRL 05/28/10 11:30 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Mercury	253.7	0.2	0.23	**114.7**								

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA **Units:** ppt

Chart Number: hg30518c.prn

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

Element	WL/ Mass	Report Limit	ICB 05/18/10 1:58 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.5	0.1	U								

5.22.0

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Initial Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: hg10528a.prn

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

Element	WL/ Mass	Report Limit	Ck4ICB 05/28/10 11:29 AM									
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.6	0.1	U								

5.21.0

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

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ppt

Chart Number: hg30518c.prn

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

Element	WL/ Mass	Report Limit	CCB 05/18/10 2:15 PM		CCB 05/18/10 3:58 PM		CCB 05/18/10 5:40 PM		CCB 05/18/10 7:14 PM		CCB 05/19/10 7:28 AM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.5	0.1	U	0.1	U	0.1	U	0.1	U	0.1	U

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

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ppt

Chart Number: hg30518c.prn

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

Element	WL/ Mass	Report Limit	CCB 05/19/10 9:11 AM		CCB 05/19/10 10:53 AM		CCB 05/19/10 12:45 PM		CCB 05/19/10 2:28 PM		CCB 05/19/10 4:10 PM	
			Found	**Q**	**Found**	**Q**	**Found**	**Q**	**Found**	**Q**	**Found**	**Q**
Mercury	253.7	0.5	0.1	U	0.1	U	**-0.2**	**B**	**-0.2**	**B**	**-0.2**	**B**

U Result is less than the IDL

B Result is between IDL and RL

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ppt

Chart Number: hg30518c.prn

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

Element	WL/ Mass	Report Limit	CCB 05/19/10 5:53 PM		CCB 05/19/10 7:18 PM		CCB 05/20/10 7:17 AM		CCB 05/20/10 9:00 AM		CCB 05/20/10 10:42 AM	
			Found	**Q**	**Found**	**Q**	**Found**	**Q**	**Found**	**Q**	**Found**	**Q**
Mercury	253.7	0.5	0.1	U	0.1	U	0.1	U	0.1	U	**0.3**	**B**

U Result is less than the IDL

B Result is between IDL and RL

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ppt

Chart Number: hg30518c.prn

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

Element	WL/ Mass	Report Limit	CCB 05/20/10 12:26 PM		CCB 05/20/10 2:08 PM		CCB 05/20/10 3:51 PM		CCB 05/20/10 5:33 PM		CCB 05/20/10 6:59 PM	
			Found	**Q**	**Found**	**Q**	**Found**	**Q**	**Found**	**Q**	**Found**	**Q**
Mercury	253.7	0.5	**0.1**	**B**	**0.2**	**B**	0.1	U	**-0.1**	**B**	0.1	U

U Result is less than the IDL

B Result is between IDL and RL

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ppt

Chart Number: hg30518c.prn

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

Element	WL/ Mass	Report Limit	CCB 05/21/10 6:37 AM		CCB 05/21/10 8:20 AM		CCB 05/21/10 10:12 AM		CCB 05/21/10 11:54 AM		CCB 05/21/10 1:37 PM	
			Found	**Q**	**Found**	**Q**	**Found**	**Q**	**Found**	**Q**	**Found**	**Q**
Mercury	253.7	0.5	**0.1**	**B**	**-0.2**	**B**	0.1	U	**-0.1**	**B**	0.1	U

U Result is less than the IDL

B Result is between IDL and RL

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ppt

Chart Number: hg30518c.prn

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

Element	WL/ Mass	Report Limit	CCB 05/21/10 3:28 PM		CCB 05/21/10 5:11 PM		CCB 05/21/10 6:37 PM		CCB 05/24/10 8:21 AM		CCB 05/24/10 10:03 AM	
			Found	**Q**	**Found**	**Q**	**Found**	**Q**	**Found**	**Q**	**Found**	**Q**
Mercury	253.7	0.5	**-0.2**	**B**	0.1	U	0.1	U	0.1	U	0.1	U

5.22.0

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ppt

Chart Number: hg30518c.prn

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

Element	WL/ Mass	Report Limit	CCB 05/24/10 11:46 AM		CCB 05/24/10 1:29 PM		CCB 05/24/10 3:11 PM		CCB 05/24/10 4:03 PM		CCB 05/25/10 8:14 AM	
			Found	**Q**	**Found**	**Q**	**Found**	**Q**	**Found**	**Q**	**Found**	**Q**
Mercury	253.7	0.5	**-0.1**	**B**	**-0.3**	**B**	0.1	U	0.1	U	**0.7**	

5.22.0

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

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ppt

Chart Number: hg30518c.prn

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

Element	WL/ Mass	Report Limit	CCB 05/25/10 8:49 AM		CCB 05/25/10 9:06 AM		CCB 05/25/10 10:49 AM					
			Found	**Q**	**Found**	**Q**	**Found**	**Q**	**Found**	**Q**	**Found**	**Q**
Mercury	253.7	0.5	**0.2**	**B**	**0.2**	**B**	**0.5**	**B**				

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

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: hg10528a.prn

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

Element	WL/ Mass	Report Limit	Ck1CCB 05/28/10 11:32 AM		Ck1CCB 05/28/10 11:47 AM		Ck1CCB 05/28/10 12:01 PM		Ck1CCB 05/28/10 12:15 PM		Ck1CCB 05/28/10 12:38 PM	
			Found	**Q**	**Found**	**Q**	**Found**	**Q**	**Found**	**Q**	**Found**	**Q**
Mercury	253.7	0.6	**0.1**	**B**	0.1	U	0.1	U	0.1	U	0.1	U

U Result is less than the IDL

B Result is between IDL and RL

TestAmerica North Canton

Metals Data Reporting Form

Continuing Calibration Blank Results

Instrument: CVAA **Units:** ug/L

Chart Number: hg10528a.prn

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

Element	WL/ Mass	Report Limit	Ck1CCB 05/28/10 12:49 PM		Ck1CCB 05/28/10 12:55 PM		Ck1CCB 05/28/10 1:02 PM					
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Mercury	253.7	0.6	**0.1**	**B**	0.1	U	0.1	U				

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

Form 3 Equivalent

TestAmerica North Canton

Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA-H3 **Units:** ppt

Element	Wavelength	Reporting Limit	MDL	Date of MDL
Mercury	253.700	0.5	0.12	04/13/07

TestAmerica North Canton

Metals Data Reporting Form

Instrument Detection Limits

Instrument: CVAA-H1 **Units:** ppb

Element	Wavelength	Reporting Limit	IDL	Date of IDL
Mercury	253.700	0.6	0.10	01/08/10

Batch Number: 014/015

Metals Prep Log/ Batch Summary

Lisa McGall
(e-Signature)

Prep Date: 05/27/10
Due Date: 06/01/10

Lot	Work Order			ICP Weight	ICPMS Weight	Hg Weight
A0E270000 Solid	L14X5	B	Due Date: SDG:	1.00 g		0.60 g
A0E270000 Solid	L14X5	C	Due Date: SDG:	1.00 g		0.60 g
A0E210574 Solid	L1XEH Total		Due Date: 06/01/10 SDG:			0.60 g
A0E210574 Solid	L1XEN Total		Due Date: 06/01/10 SDG:			0.60 g
A0E210574 Solid	L1XER Total		Due Date: 06/01/10 SDG:			0.60 g
A0E210574 Solid	L1XEW Total		Due Date: 06/01/10 SDG:			0.60 g
A0E210615 Solid	L1XLM Total		Due Date: 06/01/10 SDG:			0.60 g
A0E210615 Solid	L1XLN Total		Due Date: 06/01/10 SDG:			0.60 g
A0E210615 Solid	L1XLP Total		Due Date: 06/01/10 SDG:			0.60 g
A0E210615 Solid	L1XLQ Total		Due Date: 06/01/10 SDG:			0.60 g
A0E210615 Solid	L1XL6 Total		Due Date: 06/01/10 SDG:			0.60 g
A0E260531 Solid	L135P Total		Due Date: 06/02/10 SDG:	1.00 g		0.60 g
A0E260550 Solid	L14CN Total		Due Date: 06/08/10 SDG:	1.00 g		0.60 g
A0E260550 Solid	L14CN Total	S	Due Date: 06/08/10 SDG:	1.00 g		0.60 g
A0E260550 Solid	L14CN Total	D	Due Date: 06/08/10 SDG:	1.00 g		0.60 g
A0E260550 Solid	L14C3 Total		Due Date: 06/08/10 SDG:	1.00 g		0.60 g
A0E260550 Solid	L14DA Total		Due Date: 06/08/10 SDG:	1.00 g		0.60 g
A0E260550 Solid	L14DD Total		Due Date: 06/08/10 SDG:	1.00 g		0.60 g
A0E260550 Solid	L14DH Total		Due Date: 06/08/10 SDG:	1.00 g		0.60 g
A0E260550 Solid	L14DK Total		Due Date: 06/08/10 SDG:	1.00 g		0.60 g

Batch Number: 0147015

Metals Prep Log/ Batch Summary

Lisa McGall
(e-Signature)

Prep Date: 05/27/10
Due Date: 06/01/10

Lot	Work Order	ICP Weight	ICPMS Weight	Hg Weight
	LEVEL 2			
	BLANK AND CHECK STANDARD ON BATCH	X		
	MS/MSD AND PDS ON BATCH	X		
	CORRECT SPIKES ADDED	X		
	SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG	X		

Comments:

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

Unless otherwise noted, final volumes are as follows: Soils - 100 mL. Waters - ICP and ICPMS - 50 mL, Hg - 100 mL.

Low Level Hg: final volumes are 40 mL.

ICP ELEMENTS WITHIN THE BATCH:

AG AL AS BA BE CD CO CR CU FE MN NI PB SB SE SN TL VX ZN

Matrix Spike Information:

L14CN	ICP-1	Hg	Ag

Check Sample Information:

L14X5	ICP-1	Hg	Ag

Prep Method(s): SW846 3050B, SW846 7471A

Batch Number: 0147233

Metals Prep Log/ Batch Summary

Brian Davies
(e-Signature)

Prep Date: 05/27/10
Due Date: 06/01/10

Lot	Work Order			ICP Weight	ICPMS Weight	Hg Weight
A0E270000 Water	L155W	B	Due Date: SDG:			40 mL
A0E270000 Water	L155W	C	Due Date: SDG:			40 mL
A0E210615 Water	L1XLH Total		Due Date: 06/01/10 SDG:			40 mL
A0E210615 Water	L1XLJ Total		Due Date: 06/01/10 SDG:			40 mL
A0E210615 Water	L1XLK Total		Due Date: 06/01/10 SDG:			40 mL
A0E210615 Water	L1XLL Total		Due Date: 06/01/10 SDG:			40 mL
A0E210615 Water	L1XLT Total		Due Date: 06/01/10 SDG:			40 mL
A0E210615 Water	L1XLV Total		Due Date: 06/01/10 SDG:			40 mL
A0E210615 Water	L1XLW Total		Due Date: 06/01/10 SDG:			40 mL
A0E210615 Water	L1XLX Total		Due Date: 06/01/10 SDG:			40 mL
A0E210615 Water	L1XL0 Total		Due Date: 06/01/10 SDG:			40 mL
A0E210615 Water	L1XL1 Total		Due Date: 06/01/10 SDG:			40 mL
A0E210615 Water	L1XL2 Total		Due Date: 06/01/10 SDG:			40 mL
A0E210615 Water	L1XL3 Total		Due Date: 06/01/10 SDG:			40 mL
A0E210615 Water	L1XL5 Total		Due Date: 06/01/10 SDG:			40 mL
C0E260509 Water	L1313 Total		Due Date: 06/02/10 SDG:			40 mL
C0E260509 Water	L132A Total		Due Date: 06/02/10 SDG:			40 mL
C0E260537 Water	L1361 Total		Due Date: 06/02/10 SDG:			40 mL
C0E260537 Water	L1369 Total		Due Date: 06/02/10 SDG:			40 mL
C0E260537 Water	L1369 Total	S	Due Date: 06/02/10 SDG:			40 mL
C0E260537 Water	L1369 Total	D	Due Date: 06/02/10 SDG:			40 mL
A0E240443 Water	L1025 Total		Due Date: 06/07/10 SDG:			40 mL

Batch Number: 0147233

Metals Prep Log/ Batch Summary

Brian Davies
(e-Signature)

Prep Date: 05/27/10
Due Date: 06/01/10

Lot	Work Order			ICP Weight	ICPMS Weight	Hg Weight
A0E240443 Water	L1029 Total		Due Date: 06/07/10 SDG:			40 mL
A0E240443 Water	L1029 Total	S	Due Date: 06/07/10 SDG:			40 mL
A0E240443 Water	L1029 Total	D	Due Date: 06/07/10 SDG:			40 mL
A0E240443 Water	L103D Total		Due Date: 06/07/10 SDG:			40 mL

LEVEL 2

BLANK AND CHECK STANDARD ON BATCH	X
MS/MSD AND PDS ON BATCH	X
CORRECT SPIKES ADDED	X
SPIKING SOLUTIONS DOCUMENTED ON BATCH LOG	X

Comments:

B-BLANK; C-CHECK SAMPLE; L-CHECK SAMPLE DUPLICATE; P-SERIAL DILUTION; S-MATRIX SPIKE SAMPLE; D-MATRIX SPIKE DUPLICATE SAMPLE

Unless otherwise noted, final volumes are as follows: Soils - 100 mL. Waters - ICP and ICPMS - 50 mL, Hg - 100 mL.

Low Level Hg: final volumes are 40 mL.

Matrix Spike Information:
L1029 Hg

Matrix Spike Information:
L1369 Hg

Check Sample Information:
L155W Hg

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--------------------------------------------------------------------------------
:       Instrument Upload                                   Run Log - Page  1 :
:       Started Tue May 25 11:18:05 2010 by DAVIESB                           :
:       Data File: UPL$CAN_DATA_ROOT:<LHG>HG30518C.PRN;1                      :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD01REP3		18-MAY-2010	12:23:52			H3
2	STD01REP2		18-MAY-2010	12:32:31			H3
3	STD01REP1		18-MAY-2010	12:41:11			H3
4	STD02REP1		18-MAY-2010	12:49:43			H3
5	STD03REP1		18-MAY-2010	12:58:16			H3
6	STD04REP1		18-MAY-2010	13:06:49			H3
7	STD05REP1		18-MAY-2010	13:15:22			H3
8	STD06REP1		18-MAY-2010	13:23:55			H3
9	STD07REP1		18-MAY-2010	13:32:29			H3
10	STD01REP3		18-MAY-2010	13:41:08			H3
11	ICV		18-MAY-2010	13:50:02			H3
12	ICB		18-MAY-2010	13:58:33			H3
13	CCV		18-MAY-2010	14:07:05			H3
14	CCB		18-MAY-2010	14:15:37			H3
15	L1LR9B		18-MAY-2010	14:24:09			H3
16	L1LR9C		18-MAY-2010	14:32:42			H3
17	L1GFD		18-MAY-2010	14:41:15			H3
18	L1GFH		18-MAY-2010	14:49:47			H3
19	L1GV7		18-MAY-2010	14:58:19			H3
20	L1GWJ		18-MAY-2010	15:06:52			H3
21	L1GWL		18-MAY-2010	15:15:24			H3
22	L1GWN		18-MAY-2010	15:24:06			H3
23	L1GWQ		18-MAY-2010	15:32:38			H3
24	L1GWR		18-MAY-2010	15:41:10			H3
25	CCV		18-MAY-2010	15:49:41			H3
26	CCB		18-MAY-2010	15:58:13			H3
27	L1GWV		18-MAY-2010	16:06:46			H3
28	L1GWW		18-MAY-2010	16:15:19			H3
29	L1H30	5	18-MAY-2010	16:23:51			H3
30	L1H31	5	18-MAY-2010	16:32:23			H3
31	L1H5K	5	18-MAY-2010	16:40:55			H3
32	L1H5R		18-MAY-2010	16:49:28			H3
33	L09NR		18-MAY-2010	16:58:01			H3
34	L09NRS	5	18-MAY-2010	17:06:34			H3
35	L09NRD	5	18-MAY-2010	17:15:08			H3
36	L09R3		18-MAY-2010	17:23:41			H3
37	CCV		18-MAY-2010	17:32:14			H3
38	CCB		18-MAY-2010	17:40:47			H3
39	L09R5		18-MAY-2010	17:49:20			H3
40	L09RV		18-MAY-2010	17:57:53			H3
41	L09RVS	5	18-MAY-2010	18:06:26			H3
42	L09RVD	5	18-MAY-2010	18:15:00			H3
43	L1JRM		18-MAY-2010	18:23:33			H3
44	L1JRQ		18-MAY-2010	18:32:07			H3

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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	L1JR1		18-MAY-2010	18:40:41			H3
46	L1JR2		18-MAY-2010	18:49:15			H3
47	L1JR2S	5	18-MAY-2010	18:57:49			H3
48	CCV		18-MAY-2010	19:06:22			H3
49	CCB		18-MAY-2010	19:14:56			H3
50	CCV		19-MAY-2010	07:20:03			H3
51	CCB		19-MAY-2010	07:28:34			H3
52	L1JRM	5	19-MAY-2010	07:37:06			H3
53	L1JR2D	5	19-MAY-2010	07:45:38			H3
54	L1JT6		19-MAY-2010	07:54:09			H3
55	L1JVD	5	19-MAY-2010	08:02:41			H3
56	L1JVF		19-MAY-2010	08:11:14			H3
57	L1JVG		19-MAY-2010	08:19:46			H3
58	L1JVH	5	19-MAY-2010	08:28:17			H3
59	L1JVJ		19-MAY-2010	08:36:50			H3
60	L1JVM	40	19-MAY-2010	08:45:23			H3
61	L1JVL	5	19-MAY-2010	08:53:56			H3
62	CCV		19-MAY-2010	09:02:29			H3
63	CCB		19-MAY-2010	09:11:02			H3
64	L1JVP	10	19-MAY-2010	09:19:35			H3
65	L1JVQ	40	19-MAY-2010	09:28:08			H3
66	L1JVR		19-MAY-2010	09:36:41			H3
67	L1JVT		19-MAY-2010	09:45:15			H3
68	L1JVW	5	19-MAY-2010	09:53:48			H3
69	L1LTFB		19-MAY-2010	10:02:21			H3
70	L1LTFC		19-MAY-2010	10:10:54			H3
71	L1C2D		19-MAY-2010	10:19:28			H3
72	L1C2G		19-MAY-2010	10:28:02			H3
73	L1C2J		19-MAY-2010	10:36:36			H3
74	CCV		19-MAY-2010	10:45:10			H3
75	CCB		19-MAY-2010	10:53:44			H3
76	L1C2M		19-MAY-2010	11:02:16			H3
77	L1C2MS	5	19-MAY-2010	11:10:48			H3
78	L1C2MD	5	19-MAY-2010	11:28:35			H3
79	L1C2N		19-MAY-2010	11:37:06			H3
80	L1D01		19-MAY-2010	11:45:38			H3
81	L1D10		19-MAY-2010	11:54:11			H3
82	L1D1D		19-MAY-2010	12:02:43			H3
83	L1D1E		19-MAY-2010	12:11:15			H3
84	L1D1G		19-MAY-2010	12:19:48			H3
85	L1D1H		19-MAY-2010	12:28:20			H3
86	CCV		19-MAY-2010	12:36:52			H3
87	CCB		19-MAY-2010	12:45:25			H3
88	L1D1K		19-MAY-2010	12:53:57			H3

(continued)

Instrument Upload Run Log - Page 3
Started Tue May 25 11:18:05 2010 by DAVIESB
Data File: UPL$CAN_DATA_ROOT:<LHG>HG30518C.PRN;1

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
89	L1D1KS	5	19-MAY-2010	13:02:30			H3
90	L1D1KD	5	19-MAY-2010	13:11:03			H3
91	L1D1P		19-MAY-2010	13:19:36			H3
92	L1D1T		19-MAY-2010	13:28:09			H3
93	L1D1W		19-MAY-2010	13:36:41			H3
94	L1FLA		19-MAY-2010	13:45:14			H3
95	L1FLF		19-MAY-2010	13:53:46			H3
96	L1FLG		19-MAY-2010	14:02:20			H3
97	L1FLH		19-MAY-2010	14:10:54			H3
98	CCV		19-MAY-2010	14:19:28			H3
99	CCB		19-MAY-2010	14:28:01			H3
100	L1FLJ		19-MAY-2010	14:36:34			H3
101	L1FLL		19-MAY-2010	14:45:08			H3
102	L1FLM		19-MAY-2010	14:53:41			H3
103	L1FLN		19-MAY-2010	15:02:15			H3
104	L1FLP		19-MAY-2010	15:10:49			H3
105	L1FLPS	5	19-MAY-2010	15:19:23			H3
106	L1FLPD	5	19-MAY-2010	15:28:06			H3
107	L1FLQ		19-MAY-2010	15:36:38			H3
108	L1F81		19-MAY-2010	15:45:09			H3
109	L1F82		19-MAY-2010	15:53:41			H3
110	CCV		19-MAY-2010	16:02:12			H3
111	CCB		19-MAY-2010	16:10:45			H3
112	L1F9E		19-MAY-2010	16:19:17			H3
113	L1H83		19-MAY-2010	16:27:48			H3
114	L1H9A		19-MAY-2010	16:36:20			H3
115	L1H9C		19-MAY-2010	16:44:52			H3
116	L1H9D		19-MAY-2010	16:53:25			H3
117	L0X9E	20	19-MAY-2010	17:01:57			H3
118	L1LT3B		19-MAY-2010	17:10:29			H3
119	L1LT3C		19-MAY-2010	17:19:01			H3
120	L0X74F		19-MAY-2010	17:27:33			H3
121	L0X76	10	19-MAY-2010	17:36:05			H3
122	CCV		19-MAY-2010	17:44:36			H3
123	CCB		19-MAY-2010	17:53:08			H3
124	L0X78F		19-MAY-2010	18:01:41			H3
125	L0X7FF		19-MAY-2010	18:10:15			H3
126	L0X7X	5	19-MAY-2010	18:18:49			H3
127	L0X87F		19-MAY-2010	18:27:23			H3
128	L0X8C	5	19-MAY-2010	18:35:56			H3
129	L0X8VF		19-MAY-2010	18:44:30			H3
130	L0X8VFS	5	19-MAY-2010	18:53:04			H3
131	L0X8VFD	5	19-MAY-2010	19:01:38			H3
132	CCV		19-MAY-2010	19:10:12			H3

(continued)

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
133	CCB		19-MAY-2010	19:18:46			H3
134	CCV		20-MAY-2010	07:09:05			H3
135	CCB		20-MAY-2010	07:17:36			H3
136	L0X8X	5	20-MAY-2010	07:26:08			H3
137	L0X8XS	5	20-MAY-2010	07:34:40			H3
138	L0X8XD	5	20-MAY-2010	07:43:12			H3
139	L0X9C	10	20-MAY-2010	07:51:44			H3
140	L0X9DF		20-MAY-2010	08:00:17			H3
141	L1H9E		20-MAY-2010	08:08:49			H3
142	L1LVFB		20-MAY-2010	08:17:21			H3
143	L1LVFC		20-MAY-2010	08:25:53			H3
144	L0190		20-MAY-2010	08:34:26			H3
145	L0192F		20-MAY-2010	08:42:58			H3
146	CCV		20-MAY-2010	08:51:32			H3
147	CCB		20-MAY-2010	09:00:04			H3
148	L0193		20-MAY-2010	09:08:36			H3
149	L0194F		20-MAY-2010	09:17:09			H3
150	L0194FS	5	20-MAY-2010	09:25:42			H3
151	L0194FD	5	20-MAY-2010	09:34:15			H3
152	L019HF		20-MAY-2010	09:42:48			H3
153	L019N		20-MAY-2010	09:51:21			H3
154	L019XF		20-MAY-2010	09:59:55			H3
155	L02A0		20-MAY-2010	10:08:29			H3
156	L02A1F	5	20-MAY-2010	10:17:02			H3
157	L02A2	5	20-MAY-2010	10:25:36			H3
158	CCV		20-MAY-2010	10:34:10			H3
159	CCB		20-MAY-2010	10:42:44			H3
160	L02A3F	10	20-MAY-2010	10:51:18			H3
161	L02A4	10	20-MAY-2010	10:59:52			H3
162	L0194FS	2	20-MAY-2010	11:08:27			H3
163	L0194FD	2	20-MAY-2010	11:17:53			H3
164	L02A5F		20-MAY-2010	11:26:25			H3
165	L02A6	5	20-MAY-2010	11:34:57			H3
166	L02A8F		20-MAY-2010	11:43:29			H3
167	L02A9		20-MAY-2010	11:52:02			H3
168	L02AA	5	20-MAY-2010	12:00:34			H3
169	L02AAS	5	20-MAY-2010	12:09:05			H3
170	CCV		20-MAY-2010	12:17:36			H3
171	CCB		20-MAY-2010	12:26:07			H3
172	L02AAD	5	20-MAY-2010	12:34:39			H3
173	L02AJF		20-MAY-2010	12:43:12			H3
174	L02AK		20-MAY-2010	12:51:45			H3
175	L02ANF		20-MAY-2010	13:00:18			H3
176	L1LTLB		20-MAY-2010	13:08:51			H3

(continued)

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
177	L1LTLC		20-MAY-2010	13:17:24			H3
178	L1LV5B		20-MAY-2010	13:25:57			H3
179	L1LV5C		20-MAY-2010	13:34:30			H3
180	L1LVTB		20-MAY-2010	13:43:03			H3
181	L1LVTC		20-MAY-2010	13:51:37			H3
182	CCV		20-MAY-2010	14:00:11			H3
183	CCB		20-MAY-2010	14:08:44			H3
184	L02AQ	40	20-MAY-2010	14:17:17			H3
185	L02ARF	5	20-MAY-2010	14:25:50			H3
186	L02AV	40	20-MAY-2010	14:34:24			H3
187	L02AVS	40	20-MAY-2010	14:42:58			H3
188	L02AVD	40	20-MAY-2010	14:51:33			H3
189	L02AXF	5	20-MAY-2010	15:00:06			H3
190	L1LWLB		20-MAY-2010	15:08:41			H3
191	L1LWLC		20-MAY-2010	15:17:12			H3
192	L02A6	5	20-MAY-2010	15:25:44			H3
193	L02A9	40	20-MAY-2010	15:34:15			H3
194	CCV		20-MAY-2010	15:42:47			H3
195	CCB		20-MAY-2010	15:51:20			H3
196	L02AA	10	20-MAY-2010	15:59:53			H3
197	L02AAS	10	20-MAY-2010	16:08:25			H3
198	L02AK	20	20-MAY-2010	16:16:56			H3
199	L02ANF	5	20-MAY-2010	16:25:28			H3
200	L1LWWB		20-MAY-2010	16:34:00	0137327	A0E170000	H3
201	L1LWWC		20-MAY-2010	16:42:33	0137327	A0E170000	H3
202	L1MK0B		20-MAY-2010	16:51:06			H3
203	L1MK0C		20-MAY-2010	16:59:39			H3
204	L1MK0L		20-MAY-2010	17:08:12			H3
205	L04G5F	20	20-MAY-2010	17:16:44			H3
206	CCV		20-MAY-2010	17:25:18			H3
207	CCB		20-MAY-2010	17:33:50			H3
208	L04G7	40	20-MAY-2010	17:42:24			H3
209	L04GVF	20	20-MAY-2010	17:50:57			H3
210	L04GX	80	20-MAY-2010	17:59:31			H3
211	L04HEF	5	20-MAY-2010	18:08:05			H3
212	L1JR9		20-MAY-2010	18:16:39			H3
213	L1JTE		20-MAY-2010	18:25:11			H3
214	L1JTG		20-MAY-2010	18:33:45			H3
215	L1JX2		20-MAY-2010	18:42:19	0137327	A0E140581	H3
216	CCV		20-MAY-2010	18:50:54			H3
217	CCB		20-MAY-2010	18:59:28			H3
218	CCV		21-MAY-2010	06:29:28			H3
219	CCB		21-MAY-2010	06:37:59			H3
220	L02A6	20	21-MAY-2010	06:46:30			H3

(continued)

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
221	L04GVF		21-MAY-2010	06:55:02			H3
222	L04HJ		21-MAY-2010	07:03:35			H3
223	L04HNF		21-MAY-2010	07:12:08			H3
224	L04HR		21-MAY-2010	07:20:41			H3
225	L0611	40	21-MAY-2010	07:29:12			H3
226	L0614F	10	21-MAY-2010	07:37:44			H3
227	L0616	200	21-MAY-2010	07:46:16			H3
228	L0619F		21-MAY-2010	07:54:49			H3
229	L061AF		21-MAY-2010	08:03:21			H3
230	CCV		21-MAY-2010	08:11:54			H3
231	CCB		21-MAY-2010	08:20:28			H3
232	L1VPNB		21-MAY-2010	08:29:00			H3
233	L1VPNC		21-MAY-2010	08:37:32			H3
234	L1RTH	20	21-MAY-2010	08:46:03			H3
235	L1RTR	20	21-MAY-2010	08:54:36			H3
236	L1RTT	20	21-MAY-2010	09:03:08			H3
237	L1RTW	20	21-MAY-2010	09:11:41			H3
238	L1RTX		21-MAY-2010	09:20:13			H3
239	L061D	10	21-MAY-2010	09:28:45			H3
240	L061DS	10	21-MAY-2010	09:37:17			H3
241	L061DD	10	21-MAY-2010	09:45:49			H3
242	CCV		21-MAY-2010	09:54:21			H3
243	CCB		21-MAY-2010	10:12:15			H3
244	L061FF		21-MAY-2010	10:20:49			H3
245	L061G		21-MAY-2010	10:29:22			H3
246	L061HF		21-MAY-2010	10:37:54			H3
247	L061K	10	21-MAY-2010	10:46:27			H3
248	L061LF		21-MAY-2010	10:54:59			H3
249	L061P	10	21-MAY-2010	11:03:33			H3
250	L061PS	10	21-MAY-2010	11:12:06			H3
251	L061PD	10	21-MAY-2010	11:20:38			H3
252	L061QF		21-MAY-2010	11:29:16			H3
253	L061T	20	21-MAY-2010	11:37:46			H3
254	CCV		21-MAY-2010	11:46:18			H3
255	CCB		21-MAY-2010	11:54:51			H3
256	L061XF	5	21-MAY-2010	12:03:23			H3
257	L062C	80	21-MAY-2010	12:11:56			H3
258	L062DF		21-MAY-2010	12:20:28			H3
259	L062H	5	21-MAY-2010	12:29:01			H3
260	L1A31	10	21-MAY-2010	12:37:34			H3
261	L1A31S	10	21-MAY-2010	12:46:07			H3
262	L1A31D	10	21-MAY-2010	12:54:41			H3
263	L1A35F		21-MAY-2010	13:03:14			H3
264	L1A37	10	21-MAY-2010	13:11:48			H3

(continued)

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
265	L1A38F		21-MAY-2010	13:20:21			H3
266	CCV		21-MAY-2010	13:28:54			H3
267	CCB		21-MAY-2010	13:37:27			H3
268	L1A3WF		21-MAY-2010	13:46:00			H3
269	L1A4C	40	21-MAY-2010	13:54:34			H3
270	L1A4DF		21-MAY-2010	14:03:08			H3
271	L1A4E	20	21-MAY-2010	14:11:42			H3
272	L1DK0	80	21-MAY-2010	14:20:17			H3
273	L1DK1F		21-MAY-2010	14:28:51			H3
274	L1DK2	40	21-MAY-2010	14:46:13			H3
275	L1DKNF		21-MAY-2010	14:54:44			H3
276	L1DKP	40	21-MAY-2010	15:03:15			H3
277	L1DKRF		21-MAY-2010	15:11:47			H3
278	CCV		21-MAY-2010	15:20:19			H3
279	CCB		21-MAY-2010	15:28:51			H3
280	L1DKV	80	21-MAY-2010	15:37:24			H3
281	L1DKWF		21-MAY-2010	15:45:55			H3
282	L1NF7	5	21-MAY-2010	15:54:28			H3
283	L1NGH		21-MAY-2010	16:03:00			H3
284	L1NGHS	5	21-MAY-2010	16:11:32			H3
285	L1NGHD	5	21-MAY-2010	16:20:05			H3
286	L1NGJ		21-MAY-2010	16:28:38			H3
287	L1NL9	5	21-MAY-2010	16:37:12			H3
288	L1NMD		21-MAY-2010	16:45:44			H3
289	L1VPKB		21-MAY-2010	16:54:17			H3
290	CCV		21-MAY-2010	17:02:50			H3
291	CCB		21-MAY-2010	17:11:24			H3
292	L1VPKC		21-MAY-2010	17:19:57			H3
293	L1VPKL		21-MAY-2010	17:28:31			H3
294	L1D7P		21-MAY-2010	17:37:04			H3
295	L1D7V		21-MAY-2010	17:45:38			H3
296	L1D70		21-MAY-2010	17:54:12			H3
297	L1D7J	80	21-MAY-2010	18:02:46			H3
298	L1H4H	5	21-MAY-2010	18:11:19			H3
299	L1M8V	5	21-MAY-2010	18:19:54			H3
300	CCV		21-MAY-2010	18:28:28			H3
301	CCB		21-MAY-2010	18:37:01			H3
302	CCV		24-MAY-2010	08:12:34			H3
303	CCB		24-MAY-2010	08:21:05			H3
304	BOT 1		24-MAY-2010	08:29:36			H3
305	BOT 2		24-MAY-2010	08:38:07			H3
306	BOT 3		24-MAY-2010	08:46:39			H3
307	BOT 4		24-MAY-2010	08:55:12			H3
308	BOT 5		24-MAY-2010	09:03:46			H3

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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
309	BOT 6		24-MAY-2010	09:12:18			H3
310	BOT 7		24-MAY-2010	09:20:50			H3
311	BOT 8		24-MAY-2010	09:29:23			H3
312	BOT 9		24-MAY-2010	09:37:55			H3
313	BOT 10		24-MAY-2010	09:46:29			H3
314	CCV		24-MAY-2010	09:55:02			H3
315	CCB		24-MAY-2010	10:03:36			H3
316	BOT 11		24-MAY-2010	10:12:08			H3
317	BOT 12		24-MAY-2010	10:20:41			H3
318	L1GD0		24-MAY-2010	10:29:13	0137325	0E13522	H3
319	L1GD0S	5	24-MAY-2010	10:37:47	0137325	0E13522	H3
320	L1GD0D	5	24-MAY-2010	10:46:20	0137325	0E13522	H3
321	L1GDT	1000	24-MAY-2010	10:54:52	0137325	0E13522	H3
322	L1H06F		24-MAY-2010	11:03:26	0137325	A0E140470	H3
323	L1H09F		24-MAY-2010	11:12:00	0137325	A0E140470	H3
324	L1H1C		24-MAY-2010	11:20:34	0137325	A0E140470	H3
325	L1H1FF		24-MAY-2010	11:29:07	0137325	A0E140470	H3
326	CCV		24-MAY-2010	11:37:48			H3
327	CCB		24-MAY-2010	11:46:20			H3
328	L1H1KF		24-MAY-2010	11:54:53	0137325	A0E140470	H3
329	L1H1M		24-MAY-2010	12:03:27	0137325	A0E140470	H3
330	L1H1MS	5	24-MAY-2010	12:11:59	0137325	A0E140470	H3
331	L1H1MD	5	24-MAY-2010	12:20:32	0137325	A0E140470	H3
332	L1H1P		24-MAY-2010	12:29:05	0137325	A0E140470	H3
333	L1H1R		24-MAY-2010	12:37:39	0137325	A0E140470	H3
334	L1J0A	20	24-MAY-2010	12:46:12	0137327	A0E140581	H3
335	L1JX6		24-MAY-2010	12:54:46	0137327	A0E140581	H3
336	L1J18		24-MAY-2010	13:03:20	0137327	A0E140591	H3
337	L1J20		24-MAY-2010	13:11:53	0137327	A0E140591	H3
338	CCV		24-MAY-2010	13:20:27			H3
339	CCB		24-MAY-2010	13:29:01			H3
340	L1J22		24-MAY-2010	13:37:35	0137327	A0E140591	H3
341	L1J24		24-MAY-2010	13:46:08	0137327	A0E140591	H3
342	L1J2E		24-MAY-2010	13:54:54	0137327	A0E140591	H3
343	L1J2F		24-MAY-2010	14:03:26	0137327	A0E140591	H3
344	L1J2FS	5	24-MAY-2010	14:11:57	0137327	A0E140591	H3
345	L1J2FD	5	24-MAY-2010	14:20:31	0137327	A0E140591	H3
346	L1J2K		24-MAY-2010	14:29:04	0137327	A0E140591	H3
347	L1J2P		24-MAY-2010	14:37:36	0137327	A0E140591	H3
348	L1J2Q		24-MAY-2010	14:46:09	0137327	A0E140591	H3
349	L1J2V		24-MAY-2010	14:54:43	0137327	A0E140591	H3
350	CCV		24-MAY-2010	15:03:16			H3
351	CCB		24-MAY-2010	15:11:47			H3
352	L1D93		24-MAY-2010	15:20:20	0137327	A0E120490	H3

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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
353	L1D93S	5	24-MAY-2010	15:28:54	0137327	A0E120490	H3
354	L1D93D	5	24-MAY-2010	15:37:28	0137327	A0E120490	H3
355	L1D9Q		24-MAY-2010	15:46:01	0137327	A0E120490	H3
356	CCV		24-MAY-2010	15:54:36			H3
357	CCB		24-MAY-2010	16:03:09			H3
358	CCV		25-MAY-2010	08:06:00			H3
359	CCB		25-MAY-2010	08:14:31			H3
360	CCV		25-MAY-2010	08:23:33			H3
361	CCB		25-MAY-2010	08:49:39			H3
362	CCV		25-MAY-2010	08:58:21			H3
363	CCB		25-MAY-2010	09:06:51			H3
364	L106LB		25-MAY-2010	09:15:23	0144291	A0E240000	H3
365	L106LC		25-MAY-2010	09:23:54	0144291	A0E240000	H3
366	L1NJQ		25-MAY-2010	09:32:27	0144291	A0E180502	H3
367	L1NJQS	5	25-MAY-2010	09:41:00	0144291	A0E180502	H3
368	L1NJQD	5	25-MAY-2010	09:49:33	0144291	A0E180502	H3
369	L1WWD		25-MAY-2010	09:58:05	0144291	A0E210504	H3
370	L1WWJ		25-MAY-2010	10:06:37	0144291	A0E210504	H3
371	L1WWJS	5	25-MAY-2010	10:15:10	0144291	A0E210504	H3
372	L1WWJD	5	25-MAY-2010	10:23:42	0144291	A0E210504	H3
373	L1T13	200	25-MAY-2010	10:32:16	0144291	C0E200553	H3
374	CCV		25-MAY-2010	10:40:49			H3
375	CCB		25-MAY-2010	10:49:23			H3
376	L1T2K	20	25-MAY-2010	10:57:54	0144291	C0E200553	H3
377	L1T2N	10	25-MAY-2010	11:06:26	0144291	C0E200553	H3
378	L1T2P	10	25-MAY-2010	11:14:58	0144291	C0E200553	H3
379	L1TPF	100	25-MAY-2010	11:23:31	0144291	A0E200498	H3
380	L1T2E		25-MAY-2010	11:32:03	0144291	A0E200556	H3
381	L1T2G		25-MAY-2010	11:41:16	0144291	A0E200556	H3
382	L1T3F		25-MAY-2010	11:49:49	0144291	A0E200569	H3
383	L1T3M	5	25-MAY-2010	11:58:21	0144291	A0E200569	H3
384	L1T3P	40	25-MAY-2010	12:06:52	0144291	A0E200569	H3
385	L1T3Q	10	25-MAY-2010	12:15:25	0144291	A0E200569	H3
386	CCV		25-MAY-2010	12:23:58			H3
387	CCB		25-MAY-2010	12:32:31			H3
388	L1T3R	5	25-MAY-2010	12:41:04	0144291	A0E200569	H3
389	L1T3T	20	25-MAY-2010	12:49:37	0144291	A0E200569	H3
390	L1T3V	5	25-MAY-2010	12:58:11	0144291	A0E200569	H3
391	L1T3W		25-MAY-2010	13:06:43	0144291	A0E200569	H3
392	L1T3X		25-MAY-2010	13:15:16	0144291	A0E200569	H3
393	BOTTLE		25-MAY-2010	13:23:49			H3
394	CCV		25-MAY-2010	13:32:22			H3
395	CCB		25-MAY-2010	13:40:56			H3
396	L1T2G		25-MAY-2010	13:49:47	0144291	A0E200556	H3

(continued)

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
397	CCV		25-MAY-2010	13:58:21			H3
398	CCB		25-MAY-2010	14:06:55			H3
399	CCV		28-MAY-2010	07:16:11			H3
400	CCB		28-MAY-2010	07:24:42			H3
401	L155WB		28-MAY-2010	07:33:13	0147253	A0E270000	H3
402	L155WC		28-MAY-2010	07:41:44	0147253	A0E270000	H3
403	L1XL0	5	28-MAY-2010	07:50:17	0147253	A0E210615	H3
404	L1XL1		28-MAY-2010	07:58:49	0147253	A0E210615	H3
405	L1XL2		28-MAY-2010	08:07:20	0147253	A0E210615	H3
406	L1XL3	5	28-MAY-2010	08:15:51	0147253	A0E210615	H3
407	L1XL5		28-MAY-2010	08:24:24	0147253	A0E210615	H3
408	L1XLH	20	28-MAY-2010	08:32:56	0147253	A0E210615	H3
409	L1XLJ		28-MAY-2010	08:41:29	0147253	A0E210615	H3
410	L1XLK		28-MAY-2010	08:50:03	0147253	A0E210615	H3
411	CCV		28-MAY-2010	08:58:34			H3
412	CCB		28-MAY-2010	09:07:14			H3
413	L1XLL		28-MAY-2010	09:15:47	0147253	A0E210615	H3
414	L1XLT	40	28-MAY-2010	09:24:20	0147253	A0E210615	H3
415	L1XLV	5	28-MAY-2010	09:32:53	0147253	A0E210615	H3
416	L1XLW	5	28-MAY-2010	09:41:25	0147253	A0E210615	H3
417	L1XLX	5	28-MAY-2010	09:49:59	0147253	A0E210615	H3
418	L1441B		28-MAY-2010	09:58:32	0147062	A0E270000	H3
419	L1441C		28-MAY-2010	10:07:06	0147062	A0E270000	H3
420	L12A5	10	28-MAY-2010	10:15:39	0147062	C0E250479	H3
421	L12A6		28-MAY-2010	10:24:12	0147062	C0E250479	H3
422	L12CF	5	28-MAY-2010	10:32:46	0147062	C0E250482	H3
423	CCV		28-MAY-2010	10:41:20			H3
424	CCB		28-MAY-2010	10:49:54			H3
425	L12CH		28-MAY-2010	10:58:29	0147062	C0E250482	H3
426	L12G9		28-MAY-2010	11:07:04	0147062	C0E250505	H3
427	L12H5	5	28-MAY-2010	11:17:42	0147062	C0E250505	H3
428	L12H7	5	28-MAY-2010	11:26:14	0147062	C0E250505	H3
429	L12HT		28-MAY-2010	11:34:46	0147062	C0E250505	H3
430	L12HW	5	28-MAY-2010	11:43:18	0147062	C0E250505	H3
431	L12JC	5	28-MAY-2010	11:51:50	0147062	C0E250505	H3
432	L15AFB		28-MAY-2010	12:00:23	0147130	A0E270000	H3
433	L15AFC		28-MAY-2010	12:08:56	0147130	A0E270000	H3
434	L15AFL		28-MAY-2010	12:17:28	0147130	A0E270000	H3
435	CCV		28-MAY-2010	12:26:00			H3
436	CCB		28-MAY-2010	12:34:32			H3
437	L12JD	5	28-MAY-2010	12:54:53	0147130	C0E250505	H3
438	L1TPJ	10	28-MAY-2010	13:03:26	0147062	A0E200498	H3
439	L1313		28-MAY-2010	13:12:00	0147253	C0E260509	H3
440	L132A		28-MAY-2010	13:20:34	0147253	C0E260509	H3

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:       Instrument Upload                                    Run Log - Page 11 :
:       Started Tue Jun  1 06:33:54 2010 by BELDINGB                           :
:       Data File: UPL$CAN_DATA_ROOT:<LHG>HG30518C.PRN;1                       :
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#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
441	L1361	5	28-MAY-2010	13:29:29	0147253	C0E260537	H3
442	L1369		28-MAY-2010	13:38:00	0147253	C0E260537	H3
443	L1369S	5	28-MAY-2010	13:46:32	0147253	C0E260537	H3
444	L1369D	5	28-MAY-2010	13:55:03	0147253	C0E260537	H3
445	L1TPL		28-MAY-2010	14:03:35	0147062	A0E200498	H3
446	L1TPLS	5	28-MAY-2010	14:12:07	0147062	A0E200498	H3
447	CCV		28-MAY-2010	14:20:38			H3
448	CCB		28-MAY-2010	14:29:10			H3
449	L1TPLD	5	28-MAY-2010	14:37:42	0147062	A0E200498	H3
450	L1TPP		28-MAY-2010	14:46:14	0147062	A0E200498	H3
451	L1TPT	20	28-MAY-2010	14:54:47	0147062	A0E200498	H3
452	L1TPW		28-MAY-2010	15:03:21	0147062	A0E200498	H3
453	L1TPX		28-MAY-2010	15:11:53	0147062	A0E200498	H3
454	L12WL		28-MAY-2010	15:20:27	0147062	A0E250570	H3
455	L12WLS	5	28-MAY-2010	15:28:59	0147062	A0E250570	H3
456	L12WLD	5	28-MAY-2010	15:37:32	0147062	A0E250570	H3
457	L12WQ	10	28-MAY-2010	15:46:05	0147062	A0E250571	H3
458	L12WR		28-MAY-2010	15:54:38	0147062	A0E250571	H3
459	CCV		28-MAY-2010	16:03:12			H3
460	CCB		28-MAY-2010	16:11:46			H3
461	L1025		28-MAY-2010	16:20:20	0147253	A0E240443	H3
462	L1029		28-MAY-2010	16:28:53	0147253	A0E240443	H3
463	L1029S	5	28-MAY-2010	16:37:27	0147253	A0E240443	H3
464	L1029D	5	28-MAY-2010	16:46:00	0147253	A0E240443	H3
465	L103D	5	28-MAY-2010	16:54:34	0147253	A0E240443	H3
466	L13VT	10	28-MAY-2010	17:03:08	0147062	0E26497	H3
467	CCV		28-MAY-2010	17:11:43			H3
468	CCB		28-MAY-2010	17:20:17			H3

---------- End of Report ----------

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--------------------------------------------------------------------------------
:       Instrument Upload                                   Run Log - Page  1 :
:       Started Fri May 28 11:25:53 2010 by MUSSELMN                          :
:       Data File: UPL$CAN_DATA_ROOT:<LHG>HG10528A.PRN;1                      :
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```

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
1	STD1REP1	1	28-MAY-2010	11:20:23			H1
2	STD2REP1	1	28-MAY-2010	11:21:53			H1
3	STD3REP1	1	28-MAY-2010	11:22:58			H1
4	STD4REP1	1	28-MAY-2010	11:24:07			H1
5	STD5REP1	1	28-MAY-2010	11:25:12			H1
6	STD6REP1	1	28-MAY-2010	11:26:19			H1
7	CK5ICV	1	28-MAY-2010	11:28:03			H1
8	CK4ICB	1	28-MAY-2010	11:29:11			H1
9	CK3CRA\MRL	1	28-MAY-2010	11:30:17			H1
10	CK2CCV	1	28-MAY-2010	11:31:33			H1
11	CK1CCB	1	28-MAY-2010	11:32:50			H1
12	L14X3B	1	28-MAY-2010	11:33:55	0147014	A0E270000	H1
13	L14X3C	1	28-MAY-2010	11:35:02	0147014	A0E270000	H1
14	L136C	1	28-MAY-2010	11:36:47	0147014	A0E260534	H1
15	L136CS	1	28-MAY-2010	11:37:52	0147014	A0E260534	H1
16	L136CD	1	28-MAY-2010	11:38:57	0147014	A0E260534	H1
17	L136D	1	28-MAY-2010	11:40:17	0147014	A0E260534	H1
18	L136G	1	28-MAY-2010	11:41:27	0147014	A0E260534	H1
19	L1368	1	28-MAY-2010	11:42:32	0147014	A0E260534	H1
20	L136X	1	28-MAY-2010	11:43:37	0147014	A0E260534	H1
21	L1367	1	28-MAY-2010	11:44:46	0147014	A0E260534	H1
22	CK2CCV	1	28-MAY-2010	11:45:54			H1
23	CK1CCB	1	28-MAY-2010	11:47:05			H1
24	L14X5B	1	28-MAY-2010	11:48:13	0147015	A0E270000	H1
25	L14X5C	1	28-MAY-2010	11:49:22	0147015	A0E270000	H1
26	L14CN	1	28-MAY-2010	11:50:28	0147015	A0E260550	H1
27	L14CNS	1	28-MAY-2010	11:51:47	0147015	A0E260550	H1
28	L14CND	1	28-MAY-2010	11:52:54	0147015	A0E260550	H1
29	L14DH	1	28-MAY-2010	11:54:12	0147015	A0E260550	H1
30	L1XLQ	1	28-MAY-2010	11:55:17	0147015	A0E210615	H1
31	L14DD	1	28-MAY-2010	11:56:22	0147015	A0E260550	H1
32	L1XLP	1	28-MAY-2010	11:57:50	0147015	A0E210615	H1
33	L1XER	1	28-MAY-2010	11:58:55	0147015	A0E210574	H1
34	CK2CCV	1	28-MAY-2010	12:00:03			H1
35	CK1CCB	1	28-MAY-2010	12:01:22			H1
36	L14DA	1	28-MAY-2010	12:02:28	0147015	A0E260550	H1
37	L1XLM	1	28-MAY-2010	12:03:34	0147015	A0E210615	H1
38	L1XEW	1	28-MAY-2010	12:04:41	0147015	A0E210574	H1
39	L1XLN	1	28-MAY-2010	12:05:51	0147015	A0E210615	H1
40	L1XEN	1	28-MAY-2010	12:07:00	0147015	A0E210574	H1
41	L135P	1	28-MAY-2010	12:08:17	0147015	A0E260531	H1
42	L14DK	1	28-MAY-2010	12:09:32	0147015	A0E260550	H1
43	L14C3	1	28-MAY-2010	12:10:39	0147015	A0E260550	H1
44	L1XEH	1	28-MAY-2010	12:11:45	0147015	A0E210574	H1

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--------------------------------------------------------------------------------
:       Instrument Upload                                   Run Log - Page  2 :
:       Started Fri May 28 11:25:53 2010 by MUSSELMN                          :
:       Data File: UPL$CAN_DATA_ROOT:<LHG>HG10528A.PRN;1                      :
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```

#	WorkOrder	Dilution	Date	Time	Batch	Lot	Instrument
45	L1XL6	1	28-MAY-2010	12:12:51	0147015	A0E210615	H1
46	CK2CCV	1	28-MAY-2010	12:14:11			H1
47	CK1CCB	1	28-MAY-2010	12:15:15			H1
48	CK2CCV	1	28-MAY-2010	12:37:51			H1
49	CK1CCB	1	28-MAY-2010	12:38:59			H1
50	L136C	1	28-MAY-2010	12:40:04	0147014	A0E260534	H1
51	L136CS	1	28-MAY-2010	12:41:09	0147014	A0E260534	H1
52	L136CD	1	28-MAY-2010	12:42:34	0147014	A0E260534	H1
53	L1XEH	10	28-MAY-2010	12:43:54	0147015	A0E210574	H1
54	L1XL6	50	28-MAY-2010	12:45:03	0147015	A0E210615	H1
55	L1XLN	50	28-MAY-2010	12:46:08	0147015	A0E210615	H1
56	L1XER	50	28-MAY-2010	12:47:14	0147015	A0E210574	H1
57	CK2CCV	1	28-MAY-2010	12:48:24			H1
58	CK1CCB	1	28-MAY-2010	12:49:44			H1
59	CK2CCV	1	28-MAY-2010	12:54:28			H1
60	CK1CCB	1	28-MAY-2010	12:55:38			H1
61	L14CN	1	28-MAY-2010	12:56:44	0147015	A0E260550	H1
62	L14CNS	1	28-MAY-2010	12:57:50	0147015	A0E260550	H1
63	L14CND	1	28-MAY-2010	12:59:06	0147015	A0E260550	H1
64	L1XL6	100	28-MAY-2010	13:00:12	0147015	A0E210615	H1
65	CK2CCV	1	28-MAY-2010	13:01:18			H1
66	CK1CCB	1	28-MAY-2010	13:02:24			H1

---------- End of Report ----------

LOW LEVEL MERCURY DATA

Test America North Canton Low Level Hg Data Review Checklist

Run/Project Information

Run Date: 5/18/10 Analyst: BLD Instrument: H3

Prep Batches Run:

Circle Methods used: 1631B, 1631C, and 1631E : NC-MT-0001 Rev 4 245.7 : NC-MT-0001 Rev 4

245.7 screen : NC-MT-0001 Rev 4

Review Items

A. Calibration/Instrument Run QC	Yes	No	N/A	2ndLevel
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels (including 3 initial calibration blanks)? Ical Date: 5/18/10	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
B. Sample Results				
1. Were samples with concentrations > the high calibration standard diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/Matrix QC				
1. Samples preserved within holding time?	✓			✓
2. LCS done per prep batch and within QC limits?	✓			✓
3. Method blank done per prep batch and < RL?	✓			✓
4. MS run at required frequency (1 per 10 samples) and within limits?	✓			✓
5. MSD or DU run at required frequency (1 per 10 samples) and RPD within SOP limits?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?	✓			✓
2. Current MDL data on file?	✓			✓
3. Calculations and Transcriptions checked for error?	✓			✓
4. All client/ project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I Analyst: [signature] Date/Time: 5/20/10 12:23 - 19:18

Level I Analyst: [signature] Date/Time: 5/24/10 7:09 - 18:37

Level I Analyst: [signature] Date/Time: 5/25/10 8:12 - 14:06

Comments: Bradley Bebley 6/1/10 7:16 - 17:20

2nd Level Reviewer : Karen L Coutts Date/Time: 5/20/10 12:23-19:18

2nd Level Reviewer: Karen L Coutts Date/Time: 5/24/10 7:09-18:37

2nd Level Reviewer: Karen L Coutts Date/Time: 5/25/10 8:12-14:06

Comments: Roger K. Voet 6-1-10 7:16-17:20

Standard and Reagent Numbers

ICal/CCV/LCS STDOE226 ICV STDOE225

BrCl OMR87 NH2OH HCl OMR218 SnCl2 OMR246

File Utility Help

RN RN

Protocol 16310518 BUSY Dataset/Proto 0518C /16310518

Protocol | Line info | Cal Curve | Report | Ctrl Chart | Viewer

Reset

Calib Coeffs

New Cal

Update Coeffs

Spike Coeffs

Avg. C.F. 37614

%RSD C.F. 6

Avg. B.B. 0.343

%Recovery 89

Type C. Factor

Print Cal

Calibrated

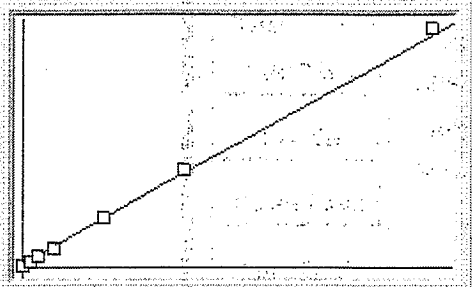
Accepted

Accept

Intensity .987171

Accepted

New



Include S8 Rep 1 2 3 4 5

18-May-10 13:41 Conc. 25.90

S	Conc.	Calc.	Dev.	Mean	SD or %R...	Rep 1	Rep 2	Rep 3	Rep 4	F
01	.00000	.0000	.0000	12910	3926	8408	15631	14689		
02	.50000	.4463	-.0537	29696	0%	29696				
03	1.0000	1.004	.0036	50661	0%	50661				
04	2.0000	1.944	-.0563	86022	0%	86022				
05	5.0000	5.234	.2337	209774	0%	209773				
06	10.000	10.49	.4912	407531	0%	407530				

Ready CAP NUM

Protocol: 16310518

POST-RUN REPORT

RERUN

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Standard: 1 Rep: 3				Seq: 1	12:23:52 18 May 10	HG		
Hg	.0000	ppt	19579					
*** Standard: 1 Rep: 2				Seq: 2	12:32:31 18 May 10	HG		
Hg	.0000	ppt	15631					
*** Standard: 1 Rep: 1				Seq: 3	12:41:11 18 May 10	HG		
Hg	.0000	ppt	8408					
*** Standard: 2 Rep: 1				Seq: 4	12:49:43 18 May 10	HG		
Hg	.5000	ppt	29696					
*** Standard: 3 Rep: 1				Seq: 5	12:58:16 18 May 10	HG		
Hg	1.000	ppt	50661					
*** Standard: 4 Rep: 1				Seq: 6	13:06:49 18 May 10	HG		
Hg	2.000	ppt	86022					
*** Standard: 5 Rep: 1				Seq: 7	13:15:22 18 May 10	HG		
Hg	5.000	ppt	209773					
*** Standard: 6 Rep: 1				Seq: 8	13:23:55 18 May 10	HG		
Hg	10.00	ppt	407530					
*** Standard: 7 Rep: 1				Seq: 9	13:32:29 18 May 10	HG		
Hg	25.00	ppt	987171					
*** Standard: 1 Rep: 3				Seq: 10	13:41:08 18 May 10	HG		
Hg	.0000	ppt	14689					
*** Sample ID: ICV				Seq: 11	13:50:02 18 May 10	HG		
Hg	5.114	ppt	205253					
*** Sample ID: ICB				Seq: 12	13:58:33 18 May 10	HG		
Hg	.0699	ppt	15540					
*** Sample ID: CCV				Seq: 13	14:07:05 18 May 10	HG		
Hg	5.225	ppt	209431					
*** Sample ID: CCB				Seq: 14	14:15:37 18 May 10	HG		
Hg	-.0672	ppt	10382					

Protocol: 16310518

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L1LR9B				Seq: 15	14:24:09 18 May 10	HG		
Hg	-.1251	ppt	8205					
*** Sample ID: L1LR9C				Seq: 16	14:32:42 18 May 10	HG		
Hg	5.053	ppt	202975					
*** Sample ID: L1GFD				Seq: 17	14:41:15 18 May 10	HG		
Hg	.3490	ppt	26038					
*** Sample ID: L1GFH				Seq: 18	14:49:47 18 May 10	HG		
Hg	.0729	ppt	15653					
*** Sample ID: L1GV7				Seq: 19	14:58:19 18 May 10	HG		
Hg	-.1414	ppt	7591					
*** Sample ID: L1GWJ				Seq: 20	15:06:52 18 May 10	HG		
Hg	-.0884	ppt	9583					
*** Sample ID: L1GWL				Seq: 21	15:15:24 18 May 10	HG		
Hg	-.0831	ppt	9785					
*** Sample ID: L1GWN				Seq: 22	15:24:06 18 May 10	HG		
Hg	.0103	ppt	13295					
*** Sample ID: L1GWQ				Seq: 23	15:32:38 18 May 10	HG		
Hg	-.1116	ppt	8713					
*** Sample ID: L1GWR				Seq: 24	15:41:10 18 May 10	HG		
Hg	-.1061	ppt	8920					
*** Sample ID: CCV				Seq: 25	15:49:41 18 May 10	HG		
Hg	5.291	ppt	211943					
*** Sample ID: CCB				Seq: 26	15:58:13 18 May 10	HG		
Hg	-.0540	ppt	10877					

Protocol: 16310518

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L1GWV				Seq: 27	16:06:46 18 May 10		HG	
Hg	-.0718	ppt	10210					
*** Sample ID: L1GWW				Seq: 28	16:15:19 18 May 10		HG	
Hg	-.0888	ppt	9568					
*** Sample ID: L1H30/5				Seq: 29	16:23:51 18 May 10		HG	
Hg	5.206	ppt	208731					
*** Sample ID: L1H31/5				Seq: 30	16:32:23 18 May 10		HG	
Hg	5.442	ppt	217615					
*** Sample ID: L1H5K/5				Seq: 31	16:40:55 18 May 10		HG	
Hg	3.568	ppt	147122					
*** Sample ID: L1H5R				Seq: 32	16:49:28 18 May 10		HG	
Hg	.8828	ppt	46117					
*** Sample ID: L09NR				Seq: 33	16:58:01 18 May 10		HG	
Hg	.7027	ppt	39341					
*** Sample ID: L09NRS/5				Seq: 34	17:06:34 18 May 10		HG	
Hg	1.037	ppt	51908					
*** Sample ID: L09NRD/5				Seq: 35	17:15:08 18 May 10		HG	
Hg	.9488	ppt	48599					
*** Sample ID: L09R3				Seq: 36	17:23:41 18 May 10		HG	
Hg	1.256	ppt	60167					
*** Sample ID: CCV				Seq: 37	17:32:14 18 May 10		HG	
Hg	4.657	ppt	188094					
*** Sample ID: CCB				Seq: 38	17:40:47 18 May 10		HG	
Hg	-.0708	ppt	10245					

Protocol: 16310518

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L09R5				Seq: 39	17:49:20 18 May 10		HG	
Hg	-.1815	ppt	6082					
*** Sample ID: L09RV				Seq: 40	17:57:53 18 May 10		HG	
Hg	1.223	ppt	58920					
*** Sample ID: L09RVS/5				Seq: 41	18:06:26 18 May 10		HG	
Hg	1.097	ppt	54168					
*** Sample ID: L09RVD/5				Seq: 42	18:15:00 18 May 10		HG	
Hg	1.097	ppt	54154					
*** Sample ID: L1JRM				Seq: 43	18:23:33 18 May 10		HG	
Hg	43.39	ppt	1645183					
*** Sample ID: L1JRQ				Seq: 44	18:32:07 18 May 10		HG	
Hg	8.856	ppt	346025					
*** Sample ID: L1JR1				Seq: 45	18:40:41 18 May 10		HG	
Hg	2.599	ppt	110657					
*** Sample ID: L1JR2				Seq: 46	18:49:15 18 May 10		HG	
Hg	1.166	ppt	56778					
*** Sample ID: L1JR2S/5				Seq: 47	18:57:49 18 May 10		HG	
Hg	1.063	ppt	52890					
*** Sample ID: CCV				Seq: 48	19:06:22 18 May 10		HG	
Hg	5.042	ppt	202574					
*** Sample ID: CCB				Seq: 49	19:14:56 18 May 10		HG	
Hg	-.0692	ppt	10308					
*** Sample ID: CCV			LL	Seq: 50	07:20:03 19 May 10		HG	
Hg	5.048	ppt	202799					

Protocol: 16310518

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCB			LL	Seq: 51	07:28:34 19 May 10	HG		
Hg	-.0979	ppt	9227					
*** Sample ID: L1JRM/5			LL	Seq: 52	07:37:06 19 May 10	HG		
Hg	10.43	ppt	405265					
*** Sample ID: L1JR2D/5			LL	Seq: 53	07:45:38 19 May 10	HG		
Hg	1.180	ppt	57292					
*** Sample ID: L1JT6			LL	Seq: 54	07:54:09 19 May 10	HG		
Hg	-.0692	ppt	10306					
*** Sample ID: L1JVD/5			LL	Seq: 55	08:02:41 19 May 10	HG		
Hg	13.83	ppt	533083					
*** Sample ID: L1JVF			LL	Seq: 56	08:11:14 19 May 10	HG		
Hg	.0621	ppt	15245					
*** Sample ID: L1JVG			LL	Seq: 57	08:19:46 19 May 10	HG		
Hg	-.0571	ppt	10760					
*** Sample ID: L1JVH/5			LL	Seq: 58	08:28:17 19 May 10	HG		
Hg	2.695	ppt	114280					
*** Sample ID: L1JVJ			LL	Seq: 59	08:36:50 19 May 10	HG		
Hg	-.0842	ppt	9741					
*** Sample ID: L1JVM/40			LL	Seq: 60	08:45:23 19 May 10	HG		
Hg	12.48	ppt	482342					
*** Sample ID: L1JVL/5			LL	Seq: 61	08:53:56 19 May 10	HG		
Hg	1.039	ppt	51994					
*** Sample ID: CCV			LL	Seq: 62	09:02:29 19 May 10	HG		
Hg	4.735	ppt	191008					

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCB			LL	Seq: 63	09:11:02 19 May 10		HG	
Hg	-.0411	ppt	11363					
*** Sample ID: L1JVP/10			LL	Seq: 64	09:19:35 19 May 10		HG	
Hg	3.848	ppt	157653					
*** Sample ID: L1JVQ/40			LL	Seq: 65	09:28:08 19 May 10		HG	
Hg	11.27	ppt	436780					
*** Sample ID: L1JVR			LL	Seq: 66	09:36:41 19 May 10		HG	
Hg	.7722	ppt	41955					
*** Sample ID: L1JVT			LL	Seq: 67	09:45:15 19 May 10		HG	
Hg	.4605	ppt	30231					
*** Sample ID: L1JVW/5			LL	Seq: 68	09:53:48 19 May 10		HG	
Hg	2.768	ppt	117036					
*** Sample ID: L1LTFB			LL	Seq: 69	10:02:21 19 May 10		HG	
Hg	-.0686	ppt	10330					
*** Sample ID: L1LTFC			LL	Seq: 70	10:10:54 19 May 10		HG	
Hg	4.787	ppt	192973					
*** Sample ID: L1C2D			LL	Seq: 71	10:19:28 19 May 10		HG	
Hg	.0001	ppt	12913					
*** Sample ID: L1C2G			LL	Seq: 72	10:28:02 19 May 10		HG	
Hg	2.994	ppt	125540					
*** Sample ID: L1C2J			LL	Seq: 73	10:36:36 19 May 10		HG	
Hg	3.848	ppt	157646					
*** Sample ID: CCV			LL	Seq: 74	10:45:10 19 May 10		HG	
Hg	4.759	ppt	191901					

Protocol: 16310518

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCB			LL	Seq: 75	10:53:44 19 May 10		HG	
Hg	-.0542	ppt	10872					
*** Sample ID: L1C2M			LL	Seq: 76	11:02:16 19 May 10		HG	
Hg	7.384	ppt	290642					
*** Sample ID: L1C2MS/5			LL	Seq: 77	11:10:48 19 May 10		HG	
Hg	2.426	ppt	104168					
*** Sample ID: L1C2MD/5			LL	Seq: 78	11:28:35 19 May 10		HG	
Hg	2.310	ppt	99799					
*** Sample ID: L1C2N			LL	Seq: 79	11:37:06 19 May 10		HG	
Hg	2.150	ppt	93792					
*** Sample ID: L1D01			LL	Seq: 80	11:45:38 19 May 10		HG	
Hg	.3779	ppt	27124					
*** Sample ID: L1D10			LL	Seq: 81	11:54:11 19 May 10		HG	
Hg	-.0720	ppt	10200					
*** Sample ID: L1D1D			LL	Seq: 82	12:02:43 19 May 10		HG	
Hg	2.705	ppt	114651					
*** Sample ID: L1D1E			LL	Seq: 83	12:11:15 19 May 10		HG	
Hg	5.332	ppt	213477					
*** Sample ID: L1D1G			LL	Seq: 84	12:19:48 19 May 10		HG	
Hg	.9399	ppt	48264					
*** Sample ID: L1D1H			LL	Seq: 85	12:28:20 19 May 10		HG	
Hg	.3198	ppt	24940					
*** Sample ID: CCV			LL	Seq: 86	12:36:52 19 May 10		HG	
Hg	4.740	ppt	191209					

Protocol: 16310518

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCB			LL	Seq: 87	12:45:25 19 May 10		HG	
Hg	-.1773	ppt	6239					
*** Sample ID: L1D1K			LL	Seq: 88	12:53:57 19 May 10		HG	
Hg	.0181	ppt	13591					
*** Sample ID: L1D1KS/5			LL	Seq: 89	13:02:30 19 May 10		HG	
Hg	.7915	ppt	42683					
*** Sample ID: L1D1KD/5			LL	Seq: 90	13:11:03 19 May 10		HG	
Hg	.7633	ppt	41619					
*** Sample ID: L1D1P			LL	Seq: 91	13:19:36 19 May 10		HG	
Hg	.2437	ppt	22077					
*** Sample ID: L1D1T			LL	Seq: 92	13:28:09 19 May 10		HG	
Hg	-.0486	ppt	11081					
*** Sample ID: L1D1W			LL	Seq: 93	13:36:41 19 May 10		HG	
Hg	.2524	ppt	22404					
*** Sample ID: L1FLA			LL	Seq: 94	13:45:14 19 May 10		HG	
Hg	.4730	ppt	30700					
*** Sample ID: L1FLF			LL	Seq: 95	13:53:46 19 May 10		HG	
Hg	.0237	ppt	13800					
*** Sample ID: L1FLG			LL	Seq: 96	14:02:20 19 May 10		HG	
Hg	.0730	ppt	15657					
*** Sample ID: L1FLH			LL	Seq: 97	14:10:54 19 May 10		HG	
Hg	.0545	ppt	14960					
*** Sample ID: CCV			LL	Seq: 98	14:19:28 19 May 10		HG	
Hg	4.593	ppt	185658					

Protocol: 16310518

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCB			LL	Seq: 99	14:28:01 19 May 10	HG		
Hg	-.2034	ppt	5259					
*** Sample ID: L1FLJ			LL	Seq: 100	14:36:34 19 May 10	HG		
Hg	.1888	ppt	20012					
*** Sample ID: L1FLL			LL	Seq: 101	14:45:08 19 May 10	HG		
Hg	.0620	ppt	15242					
*** Sample ID: L1FLM			LL	Seq: 102	14:53:41 19 May 10	HG		
Hg	.1182	ppt	17356					
*** Sample ID: L1FLN			LL	Seq: 103	15:02:15 19 May 10	HG		
Hg	.1211	ppt	17464					
*** Sample ID: L1FLP			LL	Seq: 104	15:10:49 19 May 10	HG		
Hg	.5056	ppt	31928					
*** Sample ID: L1FLPS/5			LL	Seq: 105	15:19:23 19 May 10	HG		
Hg	.8848	ppt	46189					
*** Sample ID: L1FLPD/5			LL	Seq: 106	15:28:06 19 May 10	HG		
Hg	.9394	ppt	48245					
*** Sample ID: L1FLQ			LL	Seq: 107	15:36:38 19 May 10	HG		
Hg	-.0701	ppt	10272					
*** Sample ID: L1F81			LL	Seq: 108	15:45:09 19 May 10	HG		
Hg	-.0007	ppt	12883					
*** Sample ID: L1F82			LL	Seq: 109	15:53:41 19 May 10	HG		
Hg	.1114	ppt	17098					
*** Sample ID: CCV			LL	Seq: 110	16:02:12 19 May 10	HG		
Hg	4.629	ppt	187039					

Protocol: 16310518

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCB			LL	Seq: 111	16:10:45 19 May 10	HG		
Hg	-.1718	ppt	6449					
*** Sample ID: L1F9E			LL	Seq: 112	16:19:17 19 May 10	HG		
Hg	-.0899	ppt	9527					
*** Sample ID: L1H83			LL	Seq: 113	16:27:48 19 May 10	HG		
Hg	.1198	ppt	17415					
*** Sample ID: L1H9A			LL	Seq: 114	16:36:20 19 May 10	HG		
Hg	-.2394	ppt	3906					
*** Sample ID: L1H9C			LL	Seq: 115	16:44:52 19 May 10	HG		
Hg	.2223	ppt	21272					
*** Sample ID: L1H9D			LL	Seq: 116	16:53:25 19 May 10	HG		
Hg	-.0145	ppt	12364					
*** Sample ID: ~~L1H9E/20~~			LL	Seq: 117	17:01:57 19 May 10	HG		
Hg	19.52	ppt	747009					
*** Sample ID: L1LT3B			LL	Seq: 118	17:10:29 19 May 10	HG		
Hg	-.1831	ppt	6023					
*** Sample ID: L1LT3C			LL	Seq: 119	17:19:01 19 May 10	HG		
Hg	4.572	ppt	184898					
*** Sample ID: L0X74F			LL	Seq: 120	17:27:33 19 May 10	HG		
Hg	1.951	ppt	86308					
*** Sample ID: L0X76/10			LL	Seq: 121	17:36:05 19 May 10	HG		
Hg	12.34	ppt	476917					
*** Sample ID: CCV			LL	Seq: 122	17:44:36 19 May 10	HG		
Hg	4.696	ppt	189543					

L0X9E/20

Protocol: 16310518

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCB			LL	Seq: 123	17:53:08 19 May 10		HG	
Hg	-.0720	ppt	10202					
*** Sample ID: L0X78 F			LL	Seq: 124	18:01:41 19 May 10		HG	
Hg	5.747	ppt	229085					
*** Sample ID: L0X7FF			LL	Seq: 125	18:10:15 19 May 10		HG	
Hg	1.268	ppt	60611					
*** Sample ID: L0X7X/5			LL	Seq: 126	18:18:49 19 May 10		HG	
Hg	7.186	ppt	283216					
*** Sample ID: L0X87F			LL	Seq: 127	18:27:23 19 May 10		HG	
Hg	1.386	ppt	65057					
*** Sample ID: L0X8C/5			LL	Seq: 128	18:35:56 19 May 10		HG	
Hg	6.001	ppt	238632					
*** Sample ID: L0X8VF			LL	Seq: 129	18:44:30 19 May 10		HG	
Hg	.7479	ppt	41040					
*** Sample ID: L0X8VFS/5			LL	Seq: 130	18:53:04 19 May 10		HG	
Hg	.7246	ppt	40164					
*** Sample ID: L0X8VFD/5			LL	Seq: 131	19:01:38 19 May 10		HG	
Hg	.7697	ppt	41861					
*** Sample ID: CCV			LL	Seq: 132	19:10:12 19 May 10		HG	
Hg	4.496	ppt	182022					
*** Sample ID: CCB			LL	Seq: 133	19:18:46 19 May 10		HG	
Hg	-.1115	ppt	8714					

Protocol: 16310518

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCV			LL	Seq: 134	07:09:05 20 May 10	HG		
Hg	5.079	ppt	203956					
*** Sample ID: CCB			LL	Seq: 135	07:17:36 20 May 10	HG		
Hg	-.0349	ppt	11597					
*** Sample ID: L0X8X/5			LL	Seq: 136	07:26:08 20 May 10	HG		
Hg	4.420	ppt	179151					
*** Sample ID: L0X8XS/5			LL	Seq: 137	07:34:40 20 May 10	HG		
Hg	3.231	ppt	134442					
*** Sample ID: L0X8XD/5			LL	Seq: 138	07:43:12 20 May 10	HG		
Hg	3.229	ppt	134354					
*** Sample ID: L0X9C/10			LL	Seq: 139	07:51:44 20 May 10	HG		
Hg	16.07	ppt	617414					
*** Sample ID: L0X9DF			LL	Seq: 140	08:00:17 20 May 10	HG		
Hg	1.466	ppt	68052					
*** Sample ID: L0H9E			LL	Seq: 141	08:08:49 20 May 10	HG		
Hg	-.0864	ppt	9660					
*** Sample ID: L1LVFB			LL	Seq: 142	08:17:21 20 May 10	HG		
Hg	-.1486	ppt	7320					
*** Sample ID: L1LVFC			LL	Seq: 143	08:25:53 20 May 10	HG		
Hg	5.063	ppt	203348					
*** Sample ID: L0190			LL	Seq: 144	08:34:26 20 May 10	HG		
Hg	.4098	ppt	28322					
*** Sample ID: L0192F			LL	Seq: 145	08:42:58 20 May 10	HG		
Hg	.3691	ppt	26791					

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Protocol: 16310518

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCV			LL	Seq: 146	08:51:32 20 May 10	HG		
Hg	5.000	ppt	200992					
*** Sample ID: CCB			LL	Seq: 147	09:00:04 20 May 10	HG		
Hg	-.0693	ppt	10302					
*** Sample ID: L0193			LL	Seq: 148	09:08:36 20 May 10	HG		
Hg	.8694	ppt	45611					
*** Sample ID: L0194F			LL	Seq: 149	09:17:09 20 May 10	HG		
Hg	.8422	ppt	44588					
*** Sample ID: L0194FS/5			LL	Seq: 150	09:25:42 20 May 10	HG		
Hg	.5298	ppt	32837					
*** Sample ID: L0194FD/5			LL	Seq: 151	09:34:15 20 May 10	HG		
Hg	.4204	ppt	28724					
*** Sample ID: L019HF			LL	Seq: 152	09:42:48 20 May 10	HG		
Hg	.3868	ppt	27458					
*** Sample ID: L019N			LL	Seq: 153	09:51:21 20 May 10	HG		
Hg	.6116	ppt	35913					
*** Sample ID: L019XF			LL	Seq: 154	09:59:55 20 May 10	HG		
Hg	.2881	ppt	23745					
*** Sample ID: L02A0			LL	Seq: 155	10:08:29 20 May 10	HG		
Hg	1.933	ppt	85609					
*** Sample ID: L02A1F/5			LL	Seq: 156	10:17:02 20 May 10	HG		
Hg	10.43	ppt	405292					
*** Sample ID: L02A2/5			LL	Seq: 157	10:25:36 20 May 10	HG		
Hg	8.412	ppt	329307					

RERUN

Protocol: 16310518

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCV			LL	Seq: 158	10:34:10 20 May 10		HG	
Hg	5.704	ppt	227445					
*** Sample ID: CCB			LL	Seq: 159	10:42:44 20 May 10		HG	
Hg	.2686	ppt	23013					
*** Sample ID: L02A3F/10			LL	Seq: 160	10:51:18 20 May 10		HG	
Hg	7.556	ppt	297121					
*** Sample ID: L02A4/10			LL	Seq: 161	10:59:52 20 May 10		HG	
Hg	8.026	ppt	314816					
*** Sample ID: L0194FS/~~1~~2			LL	Seq: 162	11:08:27 20 May 10		HG	
Hg	3.152	ppt	131465					
*** Sample ID: L0194FD/2			LL	Seq: 163	11:17:53 20 May 10		HG	
Hg	2.698	ppt	114395					
*** Sample ID: L02A5F			LL	Seq: 164	11:26:25 20 May 10		HG	
Hg	.7053	ppt	39437					
*** Sample ID: L02A6/5			LL	Seq: 165	11:34:57 20 May 10		HG	
Hg	39.90	ppt	1513706					
*** Sample ID: L02A8F			LL	Seq: 166	11:43:29 20 May 10		HG	
Hg	7.744	ppt	304188					
*** Sample ID: L02A9			LL	Seq: 167	11:52:02 20 May 10		HG	
Hg	113.0	ppt	4261948					
*** Sample ID: L02AA/5			LL	Seq: 168	12:00:34 20 May 10		HG	
Hg	17.34	ppt	665183					
*** Sample ID: L02AAS/5			LL	Seq: 169	12:09:05 20 May 10		HG	
Hg	17.10	ppt	656085					

Protocol: 16310518

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCV			LL	Seq: 170	12:17:36 20 May 10	HG		
Hg	5.487	ppt	219294					
*** Sample ID: CCB			LL	Seq: 171	12:26:07 20 May 10	HG		
Hg	.1323	ppt	17885					
*** Sample ID: L02AAD/5			LL	Seq: 172	12:34:39 20 May 10	HG		
Hg	15.31	ppt	588715					
*** Sample ID: L02AJE			LL	Seq: 173	12:43:12 20 May 10	HG		
Hg	2.990	ppt	125372					
*** Sample ID: L02AK			LL	Seq: 174	12:51:45 20 May 10	HG		
Hg	102.1	ppt	3854874					
*** Sample ID: L02ANF			LL	Seq: 175	13:00:18 20 May 10	HG		
Hg	13.35	ppt	515049					
*** Sample ID: L1LTLB			LL	Seq: 176	13:08:51 20 May 10	HG		
Hg	.0308	ppt	14068					
*** Sample ID: L1LTLC			LL	Seq: 177	13:17:24 20 May 10	HG		
Hg	5.486	ppt	219275					

NC

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L1LV5B			LL	Seq: 178	13:25:57 20 May 10	HG		
Hg	.1590	ppt	18890					
*** Sample ID: L1LV5C			LL	Seq: 179	13:34:30 20 May 10	HG		
Hg	5.309	ppt	212610					
*** Sample ID: L1LVTB			LL	Seq: 180	13:43:03 20 May 10	HG		
Hg	.1309	ppt	17833					
*** Sample ID: L1LVTC			LL	Seq: 181	13:51:37 20 May 10	HG		
Hg	5.343	ppt	213889					
*** Sample ID: CCV			LL	Seq: 182	14:00:11 20 May 10	HG		
Hg	5.519	ppt	220519					
*** Sample ID: CCB			LL	Seq: 183	14:08:44 20 May 10	HG		
Hg	.1883	ppt	19994					
*** Sample ID: L02AQ/40			LL	Seq: 184	14:17:17 20 May 10	HG		
Hg	13.74	ppt	529705					
*** Sample ID: L02ARF/5			LL	Seq: 185	14:25:50 20 May 10	HG		
Hg	2.614	ppt	111228					
*** Sample ID: L02AV/40			LL	Seq: 186	14:34:24 20 May 10	HG		
Hg	21.19	ppt	810134					
*** Sample ID: L02AVS/40			LL	Seq: 187	14:42:58 20 May 10	HG		
Hg	10.88	ppt	422301					
*** Sample ID: L02AVD/40			LL	Seq: 188	14:51:33 20 May 10	HG		
Hg	12.23	ppt	472786					
*** Sample ID: L02AXF/5			LL	Seq: 189	15:00:06 20 May 10	HG		
Hg	3.782	ppt	155149					

NL

NL

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L1LWLB			LL	Seq: 190	15:08:41 20 May 10		HG	
Hg	.2556	ppt	22525					
*** Sample ID: L1LWLC			LL	Seq: 191	15:17:12 20 May 10		HG	
Hg	5.391	ppt	215702					
*** Sample ID: L02A6/5			LL	Seq: 192	15:25:44 20 May 10		HG	
Hg	40.28	ppt	1528053					
*** Sample ID: L02A9/40			LL	Seq: 193	15:34:15 20 May 10		HG	
Hg	2.888	ppt	121528					
*** Sample ID: CCV			LL	Seq: 194	15:42:47 20 May 10		HG	
Hg	5.517	ppt	220427					
*** Sample ID: CCB			LL	Seq: 195	15:51:20 20 May 10		HG	
Hg	.0918	ppt	16362					
*** Sample ID: L02AA/10			LL	Seq: 196	15:59:53 20 May 10		HG	
Hg	9.372	ppt	365444					
*** Sample ID: L02AAS/10			LL	Seq: 197	16:08:25 20 May 10		HG	
Hg	9.121	ppt	356007					
*** Sample ID: L02AK/20			LL	Seq: 198	16:16:56 20 May 10		HG	
Hg	5.156	ppt	206832					
*** Sample ID: L02ANF/5			LL	Seq: 199	16:25:28 20 May 10		HG	
Hg	2.676	ppt	113565					
*** Sample ID: L1LWWB			LL	Seq: 200	16:34:00 20 May 10		HG	
Hg	-.0631	ppt	10536					
*** Sample ID: L1LWWC			LL	Seq: 201	16:42:33 20 May 10		HG	
Hg	5.191	ppt	208180					

NC

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L1MK0B			LL	Seq: 202	16:51:06 20 May 10		HG	
Hg	-.0388	ppt	11451					
*** Sample ID: L1MK0C			LL	Seq: 203	16:59:39 20 May 10		HG	
Hg	5.428	ppt	217095					
*** Sample ID: L1MK0L			LL	Seq: 204	17:08:12 20 May 10		HG	
Hg	5.321	ppt	213042					
*** Sample ID: L04G5/20 F			LL	Seq: 205	17:16:44 20 May 10		HG	
Hg	.9779	ppt	49691					
*** Sample ID: CCV			LL	Seq: 206	17:25:18 20 May 10		HG	
Hg	5.112	ppt	205177					
*** Sample ID: CCB			LL	Seq: 207	17:33:50 20 May 10		HG	
Hg	-.1389	ppt	7683					
*** Sample ID: L04G7/40			LL	Seq: 208	17:42:24 20 May 10		HG	
Hg	6.565	ppt	259844					
*** Sample ID: L04GV/20 F			LL	Seq: 209	17:50:57 20 May 10		HG	
Hg	.3660	ppt	26677					
*** Sample ID: L04GX/80			LL	Seq: 210	17:59:31 20 May 10		HG	
Hg	1.977	ppt	87262					
*** Sample ID: L04HE/5 F			LL	Seq: 211	18:08:05 20 May 10		HG	
Hg	.6775	ppt	38394					
*** Sample ID: L1JR9			LL	Seq: 212	18:16:39 20 May 10		HG	
Hg	6.173	ppt	245085					
*** Sample ID: L1JTE			LL	Seq: 213	18:25:11 20 May 10		HG	
Hg	1.826	ppt	81582					

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L1JTG			LL	Seq: 214	18:33:45 20 May 10	HG		
Hg	.3396	ppt	25682					
*** Sample ID: L1JX2			LL	Seq: 215	18:42:19 20 May 10	HG		
Hg	-.0978	ppt	9232					
*** Sample ID: CCV			LL	Seq: 216	18:50:54 20 May 10	HG		
Hg	4.825	ppt	194393					
*** Sample ID: CCB			LL	Seq: 217	18:59:28 20 May 10	HG		
Hg	-.0130	ppt	12421					
*** Sample ID: CCV			LL	Seq: 218	06:29:28 21 May 10	HG		
Hg	5.423	ppt	216886					
*** Sample ID: CCB			LL	Seq: 219	06:37:59 21 May 10	HG		
Hg	.1232	ppt	17545					
*** Sample ID: L02A6/20			LL	Seq: 220	06:46:30 21 May 10	HG		
Hg	10.36	ppt	402684					
*** Sample ID: L04GVF			LL	Seq: 221	06:55:02 21 May 10	HG		
Hg	5.357	ppt	214401					
*** Sample ID: L04HJ			LL	Seq: 222	07:03:35 21 May 10	HG		
Hg	1.433	ppt	66801					
*** Sample ID: L04HN F			LL	Seq: 223	07:12:08 21 May 10	HG		
Hg	.4747	ppt	30764					
*** Sample ID: L04HR			LL	Seq: 224	07:20:41 21 May 10	HG		
Hg	.9360	ppt	48115					
*** Sample ID: L0611/40			LL	Seq: 225	07:29:12 21 May 10	HG		
Hg	10.92	ppt	423847					

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L0614F/10 LL				Seq: 226	07:37:44 21 May 10		HG	
Hg	10.52	ppt	408452					
*** Sample ID: L0616/200 LL				Seq: 227	07:46:16 21 May 10		HG	
Hg	10.42	ppt	404996					
*** Sample ID: L0619F LL				Seq: 228	07:54:49 21 May 10		HG	
Hg	8.514	ppt	333164					
*** Sample ID: L061AF LL				Seq: 229	08:03:21 21 May 10		HG	
Hg	.8841	ppt	46164					
*** Sample ID: CCV LL				Seq: 230	08:11:54 21 May 10		HG	
Hg	4.636	ppt	187297					
*** Sample ID: CCB LL				Seq: 231	08:20:28 21 May 10		HG	
Hg	-.1557	ppt	7051					
*** Sample ID: L1VPNB LL				Seq: 232	08:29:00 21 May 10		HG	
Hg	-.0376	ppt	11494					
*** Sample ID: L1VPNC LL				Seq: 233	08:37:32 21 May 10		HG	
Hg	4.907	ppt	197476					
*** Sample ID: L1RTH/20 LL				Seq: 234	08:46:03 21 May 10		HG	
Hg	11.26	ppt	436332					
*** Sample ID: L1RTR/20 LL				Seq: 235	08:54:36 21 May 10		HG	
Hg	9.222	ppt	359808					
*** Sample ID: L1RTT/20 LL				Seq: 236	09:03:08 21 May 10		HG	
Hg	5.796	ppt	230913					
*** Sample ID: L1RTW/20 LL				Seq: 237	09:11:41 21 May 10		HG	
Hg	8.289	ppt	324691					

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L1RTX			LL	Seq: 238	09:20:13 21 May 10	HG		
Hg	.0970	ppt	16559					
*** Sample ID: L061D/10			LL	Seq: 239	09:28:45 21 May 10	HG		
Hg	18.35	ppt	702958					
*** Sample ID: L061DS/10			LL	Seq: 240	09:37:17 21 May 10	HG		
NL Hg	17.93	ppt	687469					
*** Sample ID: L061DD/10			LL	Seq: 241	09:45:49 21 May 10	HG		
NL Hg	15.62	ppt	600513					
*** Sample ID: CCV			LL	Seq: 242	09:54:21 21 May 10	HG		
Hg	4.994	ppt	200754					
*** Sample ID: CCB				Seq: 243	10:12:15 21 May 10	HG		
Hg	-.0220	ppt	12083					
*** Sample ID: L061FF				Seq: 244	10:20:49 21 May 10	HG		
Hg	1.526	ppt	70310					
*** Sample ID: L061G				Seq: 245	10:29:22 21 May 10	HG		
Hg	.1597	ppt	18917					
*** Sample ID: L061HF				Seq: 246	10:37:54 21 May 10	HG		
Hg	.5063	ppt	31952					
*** Sample ID: L061K/10				Seq: 247	10:46:27 21 May 10	HG		
Hg	6.233	ppt	247370					
*** Sample ID: L061LF				Seq: 248	10:54:59 21 May 10	HG		
Hg	.6445	ppt	37151					
*** Sample ID: L061P/10				Seq: 249	11:03:33 21 May 10	HG		
Hg	9.805	ppt	381710					

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L061PS/10				Seq: 250	11:12:06 21 May 10	HG		
Hg	10.68	ppt	414776					
*** Sample ID: L061PD/10				Seq: 251	11:20:38 21 May 10	HG		
Hg	10.86	ppt	421467					
*** Sample ID: L061QF				Seq: 252	11:29:16 21 May 10	HG		
Hg	7.289	ppt	287069					
*** Sample ID: L061T/20				Seq: 253	11:37:46 21 May 10	HG		
Hg	15.96	ppt	613136					
*** Sample ID: CCV				Seq: 254	11:46:18 21 May 10	HG		
Hg	4.700	ppt	189686					
*** Sample ID: CCB				Seq: 255	11:54:51 21 May 10	HG		
Hg	-.1339	ppt	7873					
*** Sample ID: L061XF/5				Seq: 256	12:03:23 21 May 10	HG		
Hg	3.721	ppt	152863					
*** Sample ID: L062C/80				Seq: 257	12:11:56 21 May 10	HG		
Hg	6.617	ppt	261793					
*** Sample ID: L062DF				Seq: 258	12:20:28 21 May 10	HG		
Hg	1.058	ppt	52716					
*** Sample ID: L062H/5				Seq: 259	12:29:01 21 May 10	HG		
Hg	8.667	ppt	338904					
*** Sample ID: L1A31/10				Seq: 260	12:37:34 21 May 10	HG		
Hg	9.068	ppt	353988					
*** Sample ID: L1A31S/10				Seq: 261	12:46:07 21 May 10	HG		
Hg	10.86	ppt	421462					

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L1A31D/10				Seq: 262	12:54:41 21 May 10	HG		
Hg	9.438	ppt	367923					
*** Sample ID: L1A35F				Seq: 263	13:03:14 21 May 10	HG		
Hg	.5858	ppt	34942					
*** Sample ID: L1A37/10				Seq: 264	13:11:48 21 May 10	HG		
Hg	6.775	ppt	267735					
*** Sample ID: L1A38F				Seq: 265	13:20:21 21 May 10	HG		
Hg	4.107	ppt	167373					
*** Sample ID: CCV				Seq: 266	13:28:54 21 May 10	HG		
Hg	4.314	ppt	175196					
*** Sample ID: CCB				Seq: 267	13:37:27 21 May 10	HG		
Hg	-.0465	ppt	11159					
*** Sample ID: L1A3WF				Seq: 268	13:46:00 21 May 10	HG		
Hg	.7784	ppt	42188					
*** Sample ID: L1A4C/40				Seq: 269	13:54:34 21 May 10	HG		
Hg	15.26	ppt	587047					
*** Sample ID: L1A4DF				Seq: 270	14:03:08 21 May 10	HG		
Hg	4.125	ppt	168065					
*** Sample ID: L1A4E/20				Seq: 271	14:11:42 21 May 10	HG		
Hg	14.79	ppt	569330					
*** Sample ID: L1DK0/80				Seq: 272	14:20:17 21 May 10	HG		
Hg	7.736	ppt	303905					
*** Sample ID: L1DK1F				Seq: 273	14:28:51 21 May 10	HG		
Hg	4.853	ppt	195452					

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L1DK2/40				Seq: 274	14:46:13 21 May 10	HG		
Hg	17.09	ppt	655832					
*** Sample ID: L1DKNF				Seq: 275	14:54:44 21 May 10	HG		
Hg	5.901	ppt	234884					
*** Sample ID: L1DKP/40				Seq: 276	15:03:15 21 May 10	HG		
Hg	19.05	ppt	729591					
*** Sample ID: L1DKRF				Seq: 277	15:11:47 21 May 10	HG		
Hg	5.652	ppt	225500					
*** Sample ID: CCV				Seq: 278	15:20:19 21 May 10	HG		
Hg	4.614	ppt	186461					
*** Sample ID: CCB				Seq: 279	15:28:51 21 May 10	HG		
Hg	-.1760	ppt	6291					
*** Sample ID: L1DKV/80				Seq: 280	15:37:24 21 May 10	HG		
Hg	13.01	ppt	502089					
*** Sample ID: L1DKWF				Seq: 281	15:45:55 21 May 10	HG		
Hg	5.465	ppt	218479					
*** Sample ID: L1NF7/5				Seq: 282	15:54:28 21 May 10	HG		
Hg	6.426	ppt	254614					
*** Sample ID: L1NGH				Seq: 283	16:03:00 21 May 10	HG		
Hg	1.838	ppt	82035					
*** Sample ID: L1NGHS/5				Seq: 284	16:11:32 21 May 10	HG		
Hg	1.623	ppt	73942					
*** Sample ID: L1NGHD/5				Seq: 285	16:20:05 21 May 10	HG		
Hg	1.657	ppt	75248					

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L1NGJ				Seq: 286	16:28:38 21 May 10	HG		
Hg	5.787	ppt	230571					
*** Sample ID: L1NL9/5				Seq: 287	16:37:12 21 May 10	HG		
Hg	1.996	ppt	87971					
*** Sample ID: L1NMD				Seq: 288	16:45:44 21 May 10	HG		
Hg	.5181	ppt	32399					
*** Sample ID: L1VPKB				Seq: 289	16:54:17 21 May 10	HG		
Hg	-.0041	ppt	12756					
*** Sample ID: CCV				Seq: 290	17:02:50 21 May 10	HG		
Hg	4.392	ppt	178095					
*** Sample ID: CCB				Seq: 291	17:11:24 21 May 10	HG		
Hg	-.0533	ppt	10905					
*** Sample ID: L1VPKC				Seq: 292	17:19:57 21 May 10	HG		
Hg	12.23	ppt	472994					
*** Sample ID: L1VPKL				Seq: 293	17:28:31 21 May 10	HG		
Hg	12.48	ppt	482170					
*** Sample ID: L1D7P				Seq: 294	17:37:04 21 May 10	HG		
Hg	1.707	ppt	77118					
*** Sample ID: L1D7V				Seq: 295	17:45:38 21 May 10	HG		
Hg	.7038	ppt	39383					
*** Sample ID: L1D70				Seq: 296	17:54:12 21 May 10	HG		
Hg	-.2240	ppt	4484					
*** Sample ID: L1D7J/80				Seq: 297	18:02:46 21 May 10	HG		
Hg	8.507	ppt	332900					

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L1H4H/5				Seq: 298	18:11:19 21 May 10	HG		
Hg	3.416	ppt	141395					
*** Sample ID: L1M8V/5				Seq: 299	18:19:54 21 May 10	HG		
Hg	8.210	ppt	321730					
*** Sample ID: CCV				Seq: 300	18:28:28 21 May 10	HG		
Hg	4.781	ppt	192759					
*** Sample ID: CCB				Seq: 301	18:37:01 21 May 10	HG		
Hg	.0665	ppt	15409					
*** Sample ID: CCV		LL		Seq: 302	08:12:34 24 May 10	HG		
Hg	5.081	ppt	204039					
*** Sample ID: CCB		LL		Seq: 303	08:21:05 24 May 10	HG		
Hg	-.0599	ppt	10657					
*** Sample ID: BOT 1		LL		Seq: 304	08:29:36 24 May 10	HG		
			LOT B008101VB					
Hg	.1461	ppt	18405					
*** Sample ID: BOT 2		LL		Seq: 305	08:38:07 24 May 10	HG		
Hg	-.1761	ppt	6287					
*** Sample ID: BOT 3		LL		Seq: 306	08:46:39 24 May 10	HG		
Hg	.0237	ppt	13801					
*** Sample ID: BOT 4		LL		Seq: 307	08:55:12 24 May 10	HG		
Hg	-.0888	ppt	9568					
*** Sample ID: BOT 5		LL		Seq: 308	09:03:46 24 May 10	HG		
Hg	-.1365	ppt	7774					
*** Sample ID: BOT 6		LL		Seq: 309	09:12:18 24 May 10	HG		
Hg	-.1467	ppt	7393					

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: BOT 7			LL	Seq: 310	09:20:50 24 May 10	HG		
Hg	-.1192	ppt	8425					
*** Sample ID: BOT 8			LL	Seq: 311	09:29:23 24 May 10	HG		
Hg	-.2255	ppt	4429					
*** Sample ID: BOT 9			LL	Seq: 312	09:37:55 24 May 10	HG		
Hg	-.3006	ppt	1601					
*** Sample ID: BOT 10			LL	Seq: 313	09:46:29 24 May 10	HG		
Hg	-.1461	ppt	7415					
*** Sample ID: CCV			LL	Seq: 314	09:55:02 24 May 10	HG		
Hg	5.266	ppt	211001					
*** Sample ID: CCB			LL	Seq: 315	10:03:36 24 May 10	HG		
Hg	-.0788	ppt	9947					
*** Sample ID: BOT 11			LL	Seq: 316	10:12:08 24 May 10	HG		
Hg	-.2522	ppt	3422					
*** Sample ID: BOT 12			LL	Seq: 317	10:20:41 24 May 10	HG		
Hg	-.1013	ppt	9098					
*** Sample ID: L1GD0			LL	Seq: 318	10:29:13 24 May 10	HG		
Hg	2.506	ppt	107169					
*** Sample ID: L1GD0S/5			LL	Seq: 319	10:37:47 24 May 10	HG		
Hg	1.634	ppt	74353					
*** Sample ID: L1GD0D/5			LL	Seq: 320	10:46:20 24 May 10	HG		
Hg	1.512	ppt	69795					
*** Sample ID: L1GDT/1000			LL	Seq: 321	10:54:52 24 May 10	HG		
Hg	12.49	ppt	482586					

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L1H06F			LL	Seq: 322	11:03:26 24 May 10	HG		
Hg	3.607	ppt	148573					
*** Sample ID: L1H09F			LL	Seq: 323	11:12:00 24 May 10	HG		
Hg	1.940	ppt	85877					
*** Sample ID: L1H1C			LL	Seq: 324	11:20:34 24 May 10	HG		
Hg	7.744	ppt	304206					
*** Sample ID: L1H1FF			LL	Seq: 325	11:29:07 24 May 10	HG		
Hg	8.082	ppt	316895					
*** Sample ID: CCV			LL	Seq: 326	11:37:48 24 May 10	HG		
Hg	4.778	ppt	192647					
*** Sample ID: CCB			LL	Seq: 327	11:46:20 24 May 10	HG		
Hg	-.1395	ppt	7662					
*** Sample ID: L1H1KF			LL	Seq: 328	11:54:53 24 May 10	HG		
Hg	5.544	ppt	221438					
*** Sample ID: L1H1M			LL	Seq: 329	12:03:27 24 May 10	HG		
Hg	13.35	ppt	515226					
*** Sample ID: L1H1MS/5			LL	Seq: 330	12:11:59 24 May 10	HG		
Hg	3.773	ppt	154820					
*** Sample ID: L1H1MD/5			LL	Seq: 331	12:20:32 24 May 10	HG		
Hg	3.665	ppt	150758					
*** Sample ID: L1H1P			LL	Seq: 332	12:29:05 24 May 10	HG		
Hg	-.1497	ppt	7279					
*** Sample ID: L1H1R			LL	Seq: 333	12:37:39 24 May 10	HG		
Hg	-.1020	ppt	9073					

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L1J0A/20		LL		Seq: 334	12:46:12 24 May 10	HG		
Hg	15.83	ppt	608529					
*** Sample ID: L1JX6		LL		Seq: 335	12:54:46 24 May 10	HG		
Hg	.4456	ppt	29671					
*** Sample ID: L1J18		LL		Seq: 336	13:03:20 24 May 10	HG		
Hg	.3253	ppt	25147					
*** Sample ID: L1J20		LL		Seq: 337	13:11:53 24 May 10	HG		
Hg	-.0277	ppt	11869					
*** Sample ID: CCV		LL		Seq: 338	13:20:27 24 May 10	HG		
Hg	4.764	ppt	192093					
*** Sample ID: CCB		LL		Seq: 339	13:29:01 24 May 10	HG		
Hg	-.3003	ppt	1615					
*** Sample ID: L1J22		LL		Seq: 340	13:37:35 24 May 10	HG		
Hg	-.0906	ppt	9500					
*** Sample ID: L1J24		LL		Seq: 341	13:46:08 24 May 10	HG		
Hg	.0577	ppt	15081					
*** Sample ID: L1J2E		LL		Seq: 342	13:54:54 24 May 10	HG		
Hg	.2595	ppt	22669					
*** Sample ID: L1J2F		LL		Seq: 343	14:03:26 24 May 10	HG		
Hg	.3141	ppt	24724					
*** Sample ID: L1J2FS/5		LL		Seq: 344	14:11:57 24 May 10	HG		
Hg	1.066	ppt	52993					
*** Sample ID: L1J2FD/5		LL		Seq: 345	14:20:31 24 May 10	HG		
Hg	.9020	ppt	46837					

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L1J2K			LL	Seq: 346	14:29:04 24 May 10		HG	
Hg	.1735	ppt	19437					
*** Sample ID: L1J2P			LL	Seq: 347	14:37:36 24 May 10		HG	
Hg	-.1715	ppt	6460					
*** Sample ID: L1J2Q			LL	Seq: 348	14:46:09 24 May 10		HG	
Hg	-.1572	ppt	6995					
*** Sample ID: L1J2V			LL	Seq: 349	14:54:43 24 May 10		HG	
Hg	-.1559	ppt	7044					
*** Sample ID: CCV			LL	Seq: 350	15:03:16 24 May 10		HG	
Hg	4.722	ppt	190506					
*** Sample ID: CCB			LL	Seq: 351	15:11:47 24 May 10		HG	
Hg	-.0461	ppt	11175					
*** Sample ID: L1D93			LL	Seq: 352	15:20:20 24 May 10		HG	
Hg	.1144	ppt	17211					
*** Sample ID: L1D93S/5			LL	Seq: 353	15:28:54 24 May 10		HG	
Hg	.9209	ppt	47548					
*** Sample ID: L1D93D/5			LL	Seq: 354	15:37:28 24 May 10		HG	
Hg	.8649	ppt	45443					
*** Sample ID: L1D~~8~~9Q			LL	Seq: 355	15:46:01 24 May 10		HG	
Hg	-.2394	ppt	3904					
*** Sample ID: CCV			LL	Seq: 356	15:54:36 24 May 10		HG	
Hg	4.733	ppt	190928					
*** Sample ID: CCB			LL	Seq: 357	16:03:09 24 May 10		HG	
Hg	.0627	ppt	15267					

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCV			LL	Seq: 358	08:06:00 25 May 10	HG		
Hg	6.239	ppt	247601					
*** Sample ID: CCB			LL	Seq: 359	08:14:31 25 May 10	HG		
Hg	.6452	ppt	37177					
*** Sample ID: CCV			LL	Seq: 360	08:23:33 25 May 10	HG		
Hg	5.734	ppt	228574					
*** Sample ID: CCB			LL	Seq: 361	08:49:39 25 May 10	HG		
Hg	.1596	ppt	18914					
*** Sample ID: CCV			LL	Seq: 362	08:58:21 25 May 10	HG		
Hg	5.422	ppt	216872					
*** Sample ID: CCB			LL	Seq: 363	09:06:51 25 May 10	HG		
Hg	.2249	ppt	21370					
*** Sample ID: L106LB			LL	Seq: 364	09:15:23 25 May 10	HG		
Hg	.3313	ppt	25372					
*** Sample ID: L106LC			LL	Seq: 365	09:23:54 25 May 10	HG		
Hg	5.086	ppt	204218					
*** Sample ID: L1NJQ			LL	Seq: 366	09:32:27 25 May 10	HG		
Hg	15.12	ppt	581572					
*** Sample ID: L1NJQS/5			LL	Seq: 367	09:41:00 25 May 10	HG		
Hg	4.336	ppt	176008					
*** Sample ID: L1NJQD/5			LL	Seq: 368	09:49:33 25 May 10	HG		
Hg	4.657	ppt	188088					
*** Sample ID: L1WWD			LL	Seq: 369	09:58:05 25 May 10	HG		
Hg	2.784	ppt	117626					

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L1WWJ		LL		Seq: 370	10:06:37 25 May 10		HG	
Hg	1.245	ppt	59734					
*** Sample ID: L1WWJS/5		LL		Seq: 371	10:15:10 25 May 10		HG	
Hg	1.322	ppt	62640					
*** Sample ID: L1WWJD/5		LL		Seq: 372	10:23:42 25 May 10		HG	
Hg	1.367	ppt	64329					
*** Sample ID: L1T13/200		LL		Seq: 373	10:32:16 25 May 10		HG	
Hg	5.833	ppt	232296					
*** Sample ID: CCV		LL		Seq: 374	10:40:49 25 May 10		HG	
Hg	5.363	ppt	214629					
*** Sample ID: CCB		LL		Seq: 375	10:49:23 25 May 10		HG	
Hg	.4819	ppt	31034					
*** Sample ID: L1T2K/20		LL		Seq: 376	10:57:54 25 May 10		HG	
Hg	4.961	ppt	199511					
*** Sample ID: L1T2N/10		LL		Seq: 377	11:06:26 25 May 10		HG	
Hg	6.621	ppt	261963					
*** Sample ID: L1T2P/10		LL		Seq: 378	11:14:58 25 May 10		HG	
Hg	6.186	ppt	245589					
*** Sample ID: L1TPF/100		LL		Seq: 379	11:23:31 25 May 10		HG	
Hg	13.78	ppt	531116					
*** Sample ID: L1T2E		LL		Seq: 380	11:32:03 25 May 10		HG	
Hg	15.39	ppt	591954					
*** Sample ID: L1T2G		LL		Seq: 381	11:41:16 25 May 10		HG	
Hg	.6225	ppt	36323					

RERUN

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: L1T3F			LL	Seq: 382	11:49:49 25 May 10	HG		
Hg	5.554	ppt	221835					
*** Sample ID: L1T3M/5			LL	Seq: 383	11:58:21 25 May 10	HG		
Hg	7.216	ppt	284322					
*** Sample ID: L1T3P/40			LL	Seq: 384	12:06:52 25 May 10	HG		
Hg	11.01	ppt	426910					
*** Sample ID: L1T3Q/10			LL	Seq: 385	12:15:25 25 May 10	HG		
Hg	11.60	ppt	449150					
*** Sample ID: CCV			LL	Seq: 386	12:23:58 25 May 10	HG		
Hg	5.368	ppt	214812					
*** Sample ID: CCB			LL	Seq: 387	12:32:31 25 May 10	HG		
Hg	.1956	ppt	20266					
*** Sample ID: L1T3R/5			LL	Seq: 388	12:41:04 25 May 10	HG		
Hg	7.445	ppt	292966					
*** Sample ID: L1T3T/20			LL	Seq: 389	12:49:37 25 May 10	HG		
Hg	9.540	ppt	371759					
*** Sample ID: L1T3V/5			LL	Seq: 390	12:58:11 25 May 10	HG		
Hg	8.271	ppt	324013					
*** Sample ID: L1T3W			LL	Seq: 391	13:06:43 25 May 10	HG		
Hg	.0833	ppt	16043					
*** Sample ID: L1T3X			LL	Seq: 392	13:15:16 25 May 10	HG		
Hg	.2585	ppt	22634					
*** Sample ID: BOTTLE			LL LOT G006101DB	Seq: 393	13:23:49 25 May 10	HG		
Hg	.1413	ppt	18226					

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCV			LL	Seq: 394	13:32:22 25 May 10	HG		
Hg	5.234	ppt	209796					
*** Sample ID: CCB			LL	Seq: 395	13:40:56 25 May 10	HG		
Hg	.0189	ppt	13619					
*** Sample ID: L1T2G			LL	Seq: 396	13:49:47 25 May 10	HG		
Hg	.0169	ppt	13545					
*** Sample ID: CCV			LL	Seq: 397	13:58:21 25 May 10	HG		
Hg	5.310	ppt	212642					
*** Sample ID: CCB			LL	Seq: 398	14:06:55 25 May 10	HG		
Hg	.0897	ppt	16285					

Protocol: 16310518

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCV			LL	Seq: 399	07:16:11 28 May 10		HG	
Hg	4.998	ppt	200890					
*** Sample ID: CCB			LL	Seq: 400	07:24:42 28 May 10		HG	
Hg	.0275	ppt	13943					
*** Sample ID: L155WB			LL	Seq: 401	07:33:13 28 May 10		HG	
Hg	-.0254	ppt	11955					
*** Sample ID: L155WC			LL	Seq: 402	07:41:44 28 May 10		HG	
Hg	5.000	ppt	200980					
*** Sample ID: L1XL0/5			LL	Seq: 403	07:50:17 28 May 10		HG	
Hg	15.56	ppt	598021					
*** Sample ID: L1XL1			LL	Seq: 404	07:58:49 28 May 10		HG	
Hg	20.62	ppt	788361					
*** Sample ID: L1XL2			LL	Seq: 405	08:07:20 28 May 10		HG	
Hg	9.635	ppt	375317					
*** Sample ID: L1XL3/5			LL	Seq: 406	08:15:51 28 May 10		HG	
Hg	19.18	ppt	734318					
*** Sample ID: L1XL5			LL	Seq: 407	08:24:24 28 May 10		HG	
Hg	19.92	ppt	762231					
*** Sample ID: L1XLH/20			LL	Seq: 408	08:32:56 28 May 10		HG	
Hg	9.381	ppt	365765					
*** Sample ID: L1XLJ			LL	Seq: 409	08:41:29 28 May 10		HG	
Hg	4.208	ppt	171191					
*** Sample ID: L1XLK			LL	Seq: 410	08:50:03 28 May 10		HG	
Hg	8.736	ppt	341524					

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCV			LL	Seq: 411	08:58:34 28 May 10	HG		
Hg	5.158	ppt	206937					
*** Sample ID: CCB			LL	Seq: 412	09:07:14 28 May 10	HG		
Hg	-.1178	ppt	8479					
*** Sample ID: L1XLL			LL	Seq: 413	09:15:47 28 May 10	HG		
Hg	8.610	ppt	336767					
*** Sample ID: L1XLT/40			LL	Seq: 414	09:24:20 28 May 10	HG		
Hg	6.007	ppt	238871					
*** Sample ID: L1XLV/5			LL	Seq: 415	09:32:53 28 May 10	HG		
Hg	15.12	ppt	581588					
*** Sample ID: L1XLW/5			LL	Seq: 416	09:41:25 28 May 10	HG		
Hg	12.68	ppt	489974					
*** Sample ID: L1XLX/5			LL	Seq: 417	09:49:59 28 May 10	HG		
Hg	10.36	ppt	402758					
*** Sample ID: L1441B			LL	Seq: 418	09:58:32 28 May 10	HG		
Hg	-.0539	ppt	10882					
*** Sample ID: L1441C			LL	Seq: 419	10:07:06 28 May 10	HG		
Hg	5.345	ppt	213940					
*** Sample ID: L12A5/10			LL	Seq: 420	10:15:39 28 May 10	HG		
Hg	9.266	ppt	361430					
*** Sample ID: L12A6			LL	Seq: 421	10:24:12 28 May 10	HG		
Hg	1.411	ppt	65997					
*** Sample ID: L12CF/5			LL	Seq: 422	10:32:46 28 May 10	HG		
Hg	8.160	ppt	319848					

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCV			LL	Seq: 423	10:41:20 28 May 10	HG		
Hg	5.037	ppt	202385					
*** Sample ID: CCB			LL	Seq: 424	10:49:54 28 May 10	HG		
Hg	-.0300	ppt	11782					
*** Sample ID: L12CH			LL	Seq: 425	10:58:29 28 May 10	HG		
Hg	16.20	ppt	622418					
*** Sample ID: L12G9			LL	Seq: 426	11:07:04 28 May 10	HG		
Hg	9.636	ppt	375372					
*** Sample ID: L12H5/5			LL	Seq: 427	11:17:42 28 May 10	HG		
Hg	7.435	ppt	292590					
*** Sample ID: L12H7/5			LL	Seq: 428	11:26:14 28 May 10	HG		
Hg	11.61	ppt	449647					
*** Sample ID: L12HT			LL	Seq: 429	11:34:46 28 May 10	HG		
Hg	9.195	ppt	358787					
*** Sample ID: L12HW/5			LL	Seq: 430	11:43:18 28 May 10	HG		
Hg	9.745	ppt	379460					
*** Sample ID: L12JC/5			LL	Seq: 431	11:51:50 28 May 10	HG		
Hg	7.169	ppt	282581					
*** Sample ID: L15AFB			LL	Seq: 432	12:00:23 28 May 10	HG		
Hg	.0394	ppt	14393					
*** Sample ID: L15AFC			LL	Seq: 433	12:08:56 28 May 10	HG		
Hg	12.68	ppt	489721					
*** Sample ID: L15AFL			LL	Seq: 434	12:17:28 28 May 10	HG		
Hg	12.73	ppt	491638					

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCV			LL	Seq: 435	12:26:00 28 May 10		HG	
Hg	4.734	ppt	190964					
*** Sample ID: CCB			LL	Seq: 436	12:34:32 28 May 10		HG	
Hg	-.1110	ppt	8735					
*** Sample ID: L12JD/5			LL	Seq: 437	12:54:53 28 May 10		HG	
Hg	3.857	ppt	157979					
*** Sample ID: L1TPJ/10			LL	Seq: 438	13:03:26 28 May 10		HG	
Hg	12.37	ppt	478266					
*** Sample ID: L1313			LL	Seq: 439	13:12:00 28 May 10		HG	
Hg	9.420	ppt	367255					
*** Sample ID: L132A			LL	Seq: 440	13:20:34 28 May 10		HG	
Hg	11.15	ppt	432256					
*** Sample ID: L1361/5			LL	Seq: 441	13:29:29 28 May 10		HG	
Hg	8.165	ppt	320019					
*** Sample ID: L1369			LL	Seq: 442	13:38:00 28 May 10		HG	
Hg	6.955	ppt	274504					
*** Sample ID: L1369S/5			LL	Seq: 443	13:46:32 28 May 10		HG	
Hg	2.159	ppt	94120					
*** Sample ID: L1369D/5			LL	Seq: 444	13:55:03 28 May 10		HG	
Hg	2.182	ppt	94993					
*** Sample ID: L1TPL			LL	Seq: 445	14:03:35 28 May 10		HG	
Hg	.3862	ppt	27435					
*** Sample ID: L1TPLS/5			LL	Seq: 446	14:12:07 28 May 10		HG	
Hg	.8324	ppt	44218					

Protocol: 16310518
POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCV			LL	Seq: 447	14:20:38 28 May 10	HG		
Hg	4.746	ppt	191444					
*** Sample ID: CCB			LL	Seq: 448	14:29:10 28 May 10	HG		
Hg	-.0474	ppt	11125					
*** Sample ID: L1TPLD/5			LL	Seq: 449	14:37:42 28 May 10	HG		
Hg	.9375	ppt	48174					
*** Sample ID: L1TPP			LL	Seq: 450	14:46:14 28 May 10	HG		
Hg	9.717	ppt	378426					
*** Sample ID: L1TPT/20			LL	Seq: 451	14:54:47 28 May 10	HG		
Hg	12.42	ppt	480211					
*** Sample ID: L1TPW			LL	Seq: 452	15:03:21 28 May 10	HG		
Hg	3.083	ppt	128882					
*** Sample ID: L1TPX			LL	Seq: 453	15:11:53 28 May 10	HG		
Hg	-.0958	ppt	9305					
*** Sample ID: L12WL			LL	Seq: 454	15:20:27 28 May 10	HG		
Hg	10.41	ppt	404452					
*** Sample ID: L12WLS/5			LL	Seq: 455	15:28:59 28 May 10	HG		
Hg	3.574	ppt	147334					
*** Sample ID: L12WLD/5			LL	Seq: 456	15:37:32 28 May 10	HG		
Hg	3.809	ppt	156194					
*** Sample ID: L12WQ/10			LL	Seq: 457	15:46:05 28 May 10	HG		
Hg	26.75	ppt	1019138					
*** Sample ID: L12WR			LL	Seq: 458	15:54:38 28 May 10	HG		
Hg	11.05	ppt	428675					

RIR 1.40

Protocol: 16310518

POST-RUN REPORT

Line	Conc.	Units	SD/RSD	1	2	3	4	5
*** Sample ID: CCV			LL	Seq: 459	16:03:12 28 May 10	HG		
Hg	4.878	ppt	196403					
*** Sample ID: CCB			LL	Seq: 460	16:11:46 28 May 10	HG		
Hg	-.0766	ppt	10027					
*** Sample ID: L1025			LL	Seq: 461	16:20:20 28 May 10	HG		
Hg	-.0151	ppt	12340					
*** Sample ID: L1029			LL	Seq: 462	16:28:53 28 May 10	HG		
Hg	1.241	ppt	59579					
*** Sample ID: L1029S/5			LL	Seq: 463	16:37:27 28 May 10	HG		
Hg	1.144	ppt	55933					
*** Sample ID: L1029D/5			LL	Seq: 464	16:46:00 28 May 10	HG		
Hg	1.478	ppt	68507					
*** Sample ID: L103D/5			LL	Seq: 465	16:54:34 28 May 10	HG		
Hg	9.097	ppt	355101					
*** Sample ID: L13VT/10			LL	Seq: 466	17:03:08 28 May 10	HG		
Hg	12.20	ppt	471721					
*** Sample ID: CCV			LL	Seq: 467	17:11:43 28 May 10	HG		
Hg	5.166	ppt	207232					
*** Sample ID: CCB			LL	Seq: 468	17:20:17 28 May 10	HG		
Hg	-.0500	ppt	11027					

INSTRUMENT PRINTOUTS

TestAmerica North Canton Hg Data Review Checklist

Run/Project Information

Run Date: 5-28-10 Analyst: NJM Instrument: H1

Prep Batches Run: See Run Log

Circle Methods used: 7470A / 245.1 : CORP-MT-0005 Rev 1 7471: CORP-MT-0007 Rev 1

Review Items	Yes	No	N/A	2nd Level
A. Calibration/Instrument Run QC				
1. Instrument calibrated per manufacturer's instructions and at SOP specified levels?	✓			✓
2. ICV/CCV analyzed at appropriate frequency and within control limits?	✓			✓
3. ICB/CCB analyzed at appropriate frequency and within +/- RL?	✓			✓
4. CRA run?	✓			✓
B. Sample Results				
1. Were samples with concentrations > high calibration standard diluted and reanalyzed?	✓			✓
2. All reported results bracketed by in control QC?	✓			✓
3. Sample analyses done within holding time?	✓			✓
C. Preparation/Matrix QC				
1. LCS done per prep batch and within QC limits?	✓			✓
2. Method blank done per prep batch and < RL?	✓			✓
3. MS run at required frequency and within limits?	✓			✓
4. MSD or DU run at required frequency and RPD within SOP limits?	✓			✓
D. Other				
1. Are all nonconformances documented appropriately?	✓			✓
2. Current IDL/MDL data on file?	✓			✓
3. Calculations and Transcription checked for error?	✓			✓
4. All client/project specific requirements met?	✓			✓
5. Date of analysis verified as correct?	✓			✓

Level I Analyst: Natalie Muselman Date/Time: 5-28-10

Level I Analyst: Date/Time:

Comments:

2nd Level Reviewer: [signature] Date/Time: 5.28.10

2nd Level Reviewer: Date/Time:

Comments:

Curve Prepared Date: 5-28-10 Time: 09:35 Blank H_2O - OMR194

ICV CPI09K153 $SnCl_2$ OMR312

CAL/CCV HPS0928106 NACL $NH_2OH \cdot HCL$ OMR343

Revised 01/03/2008

```
*** Standard: 1 Rep: 1                Seq:  0       11:20:23 28 May 2010 HG
Hg    .0000   ppb      1453
*** Standard: 2 Rep: 1                Seq:  1       11:21:53 28 May 2010 HG
Hg    .2000   ppb      8448
*** Standard: 3 Rep: 1                Seq:  2       11:22:58 28 May 2010 HG
Hg    .5000   ppb      21028
*** Standard: 4 Rep: 1                Seq:  3       11:24:07 28 May 2010 HG
Hg    1.000   ppb      39555
*** Standard: 5 Rep: 1                Seq:  4       11:25:12 28 May 2010 HG
Hg    5.000   ppb      191014
*** Standard: 6 Rep: 1                Seq:  5       11:26:19 28 May 2010 HG
Hg    10.00   ppb      418334
```

RunProt: HGPPB | Err: Analyzer needs maintenance

RunFold: HG10528A Seq: 6 Batch:

Prnt: R/T On Pump: On

Rev: 4.2 Xmit: Off Gas: 1.00 LPM

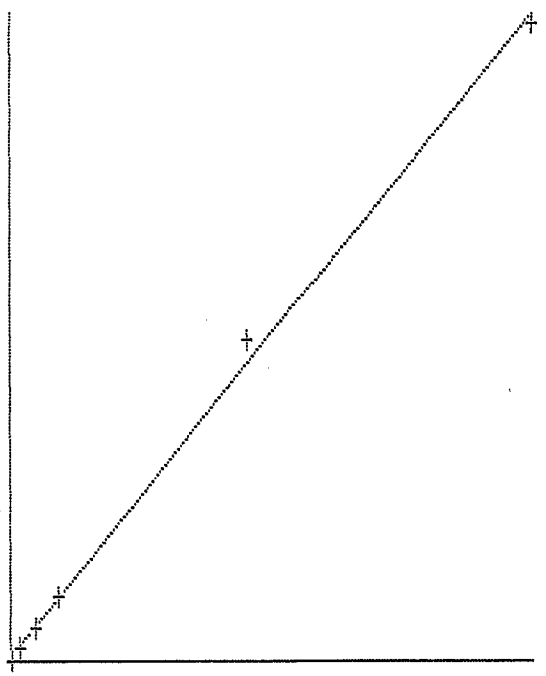
State: Idle Macro HG 59: F3 Print User: A/S: On

CALIBRATION: Line proto: HGPPB

	Hg Conc.	Calc.	Dev.	Accepted ->linear	
S1	.0000	.0817	.0817	Quadratic	
S2	.2000	.2506	.0506	Wtd linear	
S3	.5000	.5545	.0545		C
S4	1.000	1.002	.0020	Accept	o
S5	5.000	4.660	-.3397		n
S6	10.00	10.15	.1509		c

A .0000000 r .999857

B 2.41536e-5 C 4.65979e-2



	Mean		
S1	1453	0 SD	1453
S2	8448	0 %RSD	8448
S3	21028	0 %RSD	21028
S4	39555	0 %RSD	39555
S5	191014	0 %RSD	191014
S6	418334	0 %RSD	418334

New cal coefficients stored

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------

*** Check Standard: 5  Ck5ICV       Seq:  6       11:28:03 28 May 2010 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          100.7    2.517   2.500  ppb        .0000 %

*** Check Standard: 4  Ck4ICB       Seq:  7       11:29:11 28 May 2010 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg         -393900  -.0394   .0000  ppb        .0000 %

*** Check Standard: 3  Ck3CRA\MRL   Seq:  8       11:30:17 28 May 2010 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          114.7    .2294   .2000  ppb        .0000 %

*** Check Standard: 2  Ck2CCV       Seq:  9       11:31:33 28 May 2010 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          105.4    5.269   5.000  ppb        .0000 %

*** Check Standard: 1  Ck1CCB       Seq:  10      11:32:50 28 May 2010 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .1146    .2000    ppb        .0000 %

*** Sample ID: L14X3B               Seq:  11      11:33:55 28 May 2010 HG
                          0147014
Hg    .0591   ppb       .0000 %   .0591

*** Sample ID: L14X3C               Seq:  12      11:35:02 28 May 2010 HG
                          SOLID
Hg    5.004   ppb       .0000 %   5.004

*** Sample ID: L136C                Seq:  13      11:36:47 28 May 2010 HG
                          SOLID
Hg    .2688   ppb       .0000 %   .2688

*** Sample ID: L136CS               Seq:  14      11:37:52 28 May 2010 HG
                          SOLID
Hg    1.253   ppb       .0000 %   1.253

*** Sample ID: L136CD               Seq:  15      11:38:57 28 May 2010 HG
                          SOLID
Hg    1.177   ppb       .0000 %   1.177

*** Sample ID: L136D                Seq:  16      11:40:17 28 May 2010 HG
                          SOLID
Hg    .1825   ppb       .0000 %   .1825

*** Sample ID: L136G                Seq:  17      11:41:27 28 May 2010 HG
                          SOLID
Hg    [illegible]  ppb  [illegible]
```

11:42:32 28 May 2010 Protocol: HGPPB

Line	Conc.	Units	SD/RSD	1	2	3	4	5

*** Sample ID: L1368 Seq: 18 11:42:32 28 May 2010 HG
SOLID
Hg .3244 ppb .0000 % .3244

*** Sample ID: L136X Seq: 19 11:43:37 28 May 2010 HG
SOLID
Hg .1703 ppb .0000 % .1703

*** Sample ID: L1367 Seq: 20 11:44:46 28 May 2010 HG
SOLID
Hg .1976 ppb .0000 % .1976

*** Check Standard: 2 Ck2CCV Seq: 21 11:45:54 28 May 2010 HG

Line	Flag	%Rcv.	Found	True	Units	SD/RSD
Hg		106.3	5.315	5.000	ppb	.0000 %

*** Check Standard: 1 Ck1CCB Seq: 22 11:47:05 28 May 2010 HG

Line	Flag	Found	Range(+/-)	Units	SD/RSD
Hg		.0876	.2000	ppb	.0000 %

*** Sample ID: L14X5B Seq: 23 11:48:13 28 May 2010 HG
0147015
Hg .0548 ppb .0000 % .0548

*** Sample ID: L14X5C Seq: 24 11:49:22 28 May 2010 HG
SOLID
Hg 5.339 ppb .0000 % 5.339

*** Sample ID: L14CN Seq: 25 11:50:28 28 May 2010 HG
SOLID
RR Hg 3.335 ppb .0000 % 3.335

*** Sample ID: L14CNS Seq: 26 11:51:47 28 May 2010 HG
SOLID
RR Hg 3.209 ppb .0000 % 3.209

RR *** Sample ID: L14CND Seq: 27 11:52:54 28 May 2010 HG
SOLID
Hg 3.455 ppb .0000 % 3.455

*** Sample ID: L14DH Seq: 28 11:54:12 28 May 2010 HG
SOLID
Hg .1677 ppb .0000 % .1677

*** Sample ID: L1XLQ Seq: 29 11:55:17 28 May 2010 HG
SOLID
Hg [illegible] ppb [illegible]

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------------------

*** Sample ID: L14DD                    Seq:  30     11:56:22 28 May 2010 HG
                              SOLID
Hg     7.659   ppb        .0000 %   7.659

*** Sample ID: L1XLP                    Seq:  31     11:57:50 28 May 2010 HG
                              SOLID
Hg     .6968   ppb        .0000 %   .6968

*** Sample ID: L1XER                    Seq:  32     11:58:55 28 May 2010 HG
                              SOLID
Hg    73.55    ppb        .0000 %   73.55

*** Check Standard: 2  Ck2CCV           Seq:  33     12:00:03 28 May 2010 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          97.99    4.899   5.000  ppb        .0000 %

*** Check Standard: 1  Ck1CCB           Seq:  34     12:01:22 28 May 2010 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .0408    .2000    ppb        .0000 %

*** Sample ID: L14DA                    Seq:  35     12:02:28 28 May 2010 HG
                              SOLID
Hg     .0882   ppb        .0000 %   .0882

*** Sample ID: L1XLM                    Seq:  36     12:03:34 28 May 2010 HG
                              SOLID
Hg     2.311   ppb        .0000 %   2.311

*** Sample ID: L1XEW                    Seq:  37     12:04:41 28 May 2010 HG
                              SOLID
Hg     9.878   ppb        .0000 %   9.878

*** Sample ID: L1XLN                    Seq:  38     12:05:51 28 May 2010 HG
                              SOLID
Hg    99.01    ppb        .0000 %   99.01

*** Sample ID: L1XEN                    Seq:  39     12:07:00 28 May 2010 HG
                              SOLID
Hg     3.894   ppb        .0000 %   3.894

*** Sample ID: L135P                    Seq:  40     12:08:17 28 May 2010 HG
                              SOLID
Hg     .2969   ppb        .0000 %   .2969

*** Sample ID: L14DK                    Seq:  41     12:09:32 28 May 2010 HG
                              SOLID
Hg     [illegible]  ppb        [illegible]
```

Dilute

Dilute

```
Line   Conc.  Units     SD/RSD      1       2       3       4       5
-----------------------------------------------------------------------------------------

*** Sample ID: L14C3                    Seq:  42     12:10:39 28 May 2010 HG
                                SOLID
Hg     .4842   ppb        .0000 %   .4842

*** Sample ID: L1XEH                    Seq:  43     12:11:45 28 May 2010 HG
                                SOLID
Hg    31.91    ppb        .0000 %   31.91

*** Sample ID: L1XL6                    Seq:  44     12:12:51 28 May 2010 HG
                                SOLID
Hg    133.5    ppb        .0000 %   133.5

*** Check Standard: 2  Ck2CCV           Seq:  45     12:14:11 28 May 2010 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          90.27    4.513   5.000  ppb        .0000 %

*** Check Standard: 1  Ck1CCB           Seq:  46     12:15:15 28 May 2010 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg         -.0508    .2000    ppb        .0000 %

*** Check Standard: 2  Ck2CCV           Seq:  47     12:37:51 28 May 2010 HG
Line  Flag  %Rcv.   Found    True  Units      SD/RSD
Hg          107.3    5.363   5.000  ppb        .0000 %

*** Check Standard: 1  Ck1CCB           Seq:  48     12:38:59 28 May 2010 HG
Line  Flag  Found Range(+/-) Units      SD/RSD
Hg          .0904    .2000    ppb        .0000 %

*** Sample ID: L136C                    Seq:  49     12:40:04 28 May 2010 HG
                                SOLID
Hg    .2668    ppb        .0000 %   .2668

*** Sample ID: L136CS                   Seq:  50     12:41:09 28 May 2010 HG
                                SOLID
Hg    1.264    ppb        .0000 %   1.264

*** Sample ID: L136CD                   Seq:  51     12:42:34 28 May 2010 HG
                                SOLID
Hg    1.209    ppb        .0000 %   1.209

*** Sample ID: L1XEH/10                 Seq:  52     12:43:54 28 May 2010 HG
                                SOLID
Hg    3.547    ppb        .0000 %   3.547

*** Sample ID: L1XL6/50                 Seq:  53     12:45:03 28 May 2010 HG
                                SOLID
Hg    13.03    ppb        .0000 %   13.03
```

Dilute

Dilute

not needed

Line Conc. Units SD/RSD 1 2 3 4 5

*** Sample ID: L1XLN/50 Seq: 54 12:46:08 28 May 2010 HG
SOLID
Hg 5.973 ppb .0000 % 5.973

*** Sample ID: L1XER/50 Seq: 55 12:47:14 28 May 2010 HG
SOLID
Hg 3.251 ppb .0000 % 3.251

*** Check Standard: 2 Ck2CCV Seq: 56 12:48:24 28 May 2010 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 105.7 5.287 5.000 ppb .0000 %

*** Check Standard: 1 Ck1CCB Seq: 57 12:49:44 28 May 2010 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .1250 .2000 ppb .0000 %

*** Check Standard: 2 Ck2CCV Seq: 58 12:54:28 28 May 2010 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 106.0 5.299 5.000 ppb .0000 %

*** Check Standard: 1 Ck1CCB Seq: 59 12:55:38 28 May 2010 HG
Line Flag Found Range(+/-) Units SD/RSD
Hg .0598 .2000 ppb .0000 %

*** Sample ID: L14CN NGM 5-28-10 Seq: 60 12:56:44 28 May 2010 HG
SOLID
Hg 3.428 ppb .0000 % 3.428

*** Sample ID: L14CNS NGM 5-28-10 Seq: 61 12:57:50 28 May 2010 HG
SOLID
Hg 3.228 ppb .0000 % 3.228

*** Sample ID: L14CND NGM 5-28-10 Seq: 62 12:59:06 28 May 2010 HG
SOLID
Hg 3.506 ppb .0000 % 3.506

*** Sample ID: L1XL/100 NGM 5-28-10 Seq: 63 13:00:12 28 May 2010 HG
SOLID
Hg 3.711 ppb .0000 % 3.711

*** Check Standard: 2 Ck2CCV Seq: 64 13:01:18 28 May 2010 HG
Line Flag %Rcv. Found True Units SD/RSD
Hg 104.8 5.240 5.000 ppb .0000 %

*** Check Standard: 1 Ck1CCB Seq: 65 13:02:24 28 May 2010 HG
Line Flag Found Range(+/-) Units SD/RSD

MISCELLANEOUS DATA

Metals Internal Chain of Custody

Date Prepared: 05/27/10 **Prep Analyst:** Brian Davies

Laboratory Sample ID		Lab ID	Method	Analysis Date	Analyst	Instrument
A0E210615	1	L1XLH	CFR136A 163	05/28/10	Bradley Belding	H3
A0E210615	2	L1XLJ	CFR136A 163	05/28/10	Bradley Belding	H3
A0E210615	3	L1XLK	CFR136A 163	05/28/10	Bradley Belding	H3
A0E210615	4	L1XLL	CFR136A 163	05/28/10	Bradley Belding	H3
A0E210615	9	L1XLT	CFR136A 163	05/28/10	Bradley Belding	H3
A0E210615	10	L1XLV	CFR136A 163	05/28/10	Bradley Belding	H3
A0E210615	11	L1XLW	CFR136A 163	05/28/10	Bradley Belding	H3
A0E210615	12	L1XLX	CFR136A 163	05/28/10	Bradley Belding	H3
A0E210615	13	L1XL0	CFR136A 163	05/28/10	Bradley Belding	H3
A0E210615	14	L1XL1	CFR136A 163	05/28/10	Bradley Belding	H3
A0E210615	15	L1XL2	CFR136A 163	05/28/10	Bradley Belding	H3
A0E210615	16	L1XL3	CFR136A 163	05/28/10	Bradley Belding	H3
A0E210615	17	L1XL5	CFR136A 163	05/28/10	Bradley Belding	H3

U - Unfiltered F - Filtered T - TCLP L - SPLP East W - SPLP West

Metals Internal Chain of Custody

Date Prepared: 05/27/10 **Prep Analyst:** Lisa McGall

Laboratory Sample ID		Lab ID	Method	Analysis Date	Analyst	Instrument
A0E210615	1	L1XLH	SW846 7470A	05/27/10	Natalie Bucklew	H1
A0E210615	1	L1XLH	SW846 7470A	05/27/10	Natalie Musselman	H1
A0E210615	2	L1XLJ	SW846 7470A	05/27/10	Natalie Bucklew	H1
A0E210615	2	L1XLJ	SW846 7470A	05/27/10	Natalie Musselman	H1
A0E210615	3	L1XLK	SW846 7470A	05/27/10	Natalie Bucklew	H1
A0E210615	3	L1XLK	SW846 7470A	05/27/10	Natalie Musselman	H1
A0E210615	4	L1XLL	SW846 7470A	05/27/10	Natalie Bucklew	H1
A0E210615	4	L1XLL	SW846 7470A	05/27/10	Natalie Musselman	H1
A0E210615	5	L1XLM	SW846 7471A	05/28/10	Natalie Bucklew	H1
A0E210615	5	L1XLM	SW846 7471A	05/28/10	Natalie Musselman	H1
A0E210615	6	L1XLN	SW846 7471A	05/28/10	Natalie Bucklew	H1
A0E210615	6	L1XLN	SW846 7471A	05/28/10	Natalie Musselman	H1
A0E210615	7	L1XLP	SW846 7471A	05/28/10	Natalie Bucklew	H1
A0E210615	7	L1XLP	SW846 7471A	05/28/10	Natalie Musselman	H1
A0E210615	8	L1XLQ	SW846 7471A	05/28/10	Natalie Bucklew	H1
A0E210615	8	L1XLQ	SW846 7471A	05/28/10	Natalie Musselman	H1
A0E210615	9	L1XLT	SW846 7470A	05/27/10	Natalie Bucklew	H1
A0E210615	9	L1XLT	SW846 7470A	05/27/10	Natalie Musselman	H1
A0E210615	10	L1XLV	SW846 7470A	05/27/10	Natalie Bucklew	H1
A0E210615	10	L1XLV	SW846 7470A	05/27/10	Natalie Musselman	H1
A0E210615	11	L1XLW	SW846 7470A	05/27/10	Natalie Bucklew	H1
A0E210615	11	L1XLW	SW846 7470A	05/27/10	Natalie Musselman	H1
A0E210615	12	L1XLX	SW846 7470A	05/27/10	Natalie Bucklew	H1

U - Unfiltered F - Filtered T - TCLP L - SPLP East W - SPLP West

Metals Internal Chain of Custody

Date Prepared: 05/27/10 **Prep Analyst:** Lisa McGall

Laboratory Sample ID		Lab ID	Method	Analysis Date	Analyst	Instrument
A0E210615	12	L1XLX	SW846 7470A	05/27/10	Natalie Musselman	H1
A0E210615	13	L1XL0	SW846 7470A	05/27/10	Natalie Bucklew	H1
A0E210615	13	L1XL0	SW846 7470A	05/27/10	Natalie Musselman	H1
A0E210615	14	L1XL1	SW846 7470A	05/27/10	Natalie Bucklew	H1
A0E210615	14	L1XL1	SW846 7470A	05/27/10	Natalie Musselman	H1
A0E210615	15	L1XL2	SW846 7470A	05/27/10	Natalie Bucklew	H1
A0E210615	15	L1XL2	SW846 7470A	05/27/10	Natalie Musselman	H1
A0E210615	16	L1XL3	SW846 7470A	05/27/10	Natalie Bucklew	H1
A0E210615	16	L1XL3	SW846 7470A	05/27/10	Natalie Musselman	H1
A0E210615	17	L1XL5	SW846 7470A	05/27/10	Natalie Bucklew	H1
A0E210615	17	L1XL5	SW846 7470A	05/27/10	Natalie Musselman	H1
A0E210615	18	L1XL6	SW846 7471A	05/28/10	Natalie Bucklew	H1
A0E210615	18	L1XL6	SW846 7471A	05/28/10	Natalie Musselman	H1

U - Unfiltered F - Filtered T - TCLP L - SPLP East W - SPLP West

Preparation Type	Matrix	Amount of Standard added to LCS & MS/MSD		Initial Sample Vol/Wt	Final Sample Volume
		Amount	Standard name		
ICP	water	1 mL 1 mL 1.0 mL	Ag ICP-1 ICP-2A	50 mL	50 mL
ICPMS	water	0.5ml 0.5ml	ICPMS-1 ICPMS-2	50 mL	50 mL
Hg - CVAA	water	5 mL (LCS) 1 mL (MS/MSD)	HG-1 HG-1	100 mL	100 mL
Hg - CVAF (low level)	water	0.2 mL (LCS/MS/MSD)	HG ICAL	40 ml	40 ml
ICP	solid	2 mL 2 mL 2 mL	Ag ICP-1 ICP-2A	1.00 +/- .02g	100 mL
ICPMS	solid	1ml 1ml	ICPMS-1 ICPMS-2	1.00 +/- .02g	100ml
Hg - CVAA	solid	5 mL (LCS) 1 mL (MS/MSD)	HG-1 HG-1	0.60 +/- .01g	100 mL
ICP	TCLP	1 mL (LCS) 1 mL(LCS)	Ag ICP-1	50 mL	50 mL
ICP	TCLP	0.5 mL(MS/MSD)	TCLP Spike I RCRA	50 mL	50 mL
ICP	TCLP	1 mL(MS/MSD)	TCLP Spike II Non-RCRA	50 mL	50 mL
Hg - CVAA	TCLP	5 mL (LCS) 5 mL (MS/MSD)	HG-1 HG-1	100 mL	100 mL

Mercury Standards Preparation				
Final Concentration		Spiking Standard		
		Amount	Standard	Concentration
Calibration Standards:				
0.0002 ppm		0.2 mL	HG-2	0.1 ppm
0.0005 ppm		0.5 mL	HG-2	0.1 ppm
0.001 ppm		1 mL	HG-2	0.1 ppm
0.005 ppm		5 mL	HG-2	0.1 ppm
0.010 ppm		10 mL	HG-2	0.1 ppm
ICV Preparation				
0.0025 ppm		2.5 mL	HG-1	0.1 ppm
CCV Preparation:				
0.005 ppm		5 mL	HG-2	0.1 ppm

Low Level Mercury Standards Preparation				
Final Concentration		Spiking Standard		
		Amount	Standard	Concentration
Calibration Standards:				
0.5 ppt		20 ul	HG ICAL	1.0 ppb
1.0 ppt		40 ul	HG ICAL	1.0 ppb
2 ppt		80 ul	HG ICAL	1.0 ppb
5 ppt		200 ul	HG ICAL	1.0 ppb
10 ppt		400 ul	HG ICAL	1.0 ppb
25 ppt		1000 ul	HG ICAL	1.0 ppb
ICV Preparation				
5 ppt		200 ul	HG ICV	1.0 ppb
CCV Preparation:				
5 ppt		200 ul	HG ICAL	1.0 ppb

TestAmerica North Canton
Revised 1/9/07
N:\Metals\Preplog.xls

SPIKING STANDARD DEFINITIONS

Elements	Ag	ICP-1	ICP-2A	ICPMS-1	ICPMS-2	HG-1	HG-2	HG ICAL	HG ICV	TCLP Spike I	TCLP Spike II
Ag	2.5 ppm			10ppm						100 ppm	
Al		100 ppm			1000ppm						100 ppm
As		100 ppm		10ppm						500 ppm	
Ba		100 ppm		10ppm						5000 ppm	
Be		2.5 ppm		10ppm							2.5 ppm
Cd		2.5 ppm		10ppm						100 ppm	
Ca			2500 ppm		1000ppm						
Co		25 ppm		10ppm							25 ppm
Cr		10 ppm		10ppm						500 ppm	
Cu		12.5 ppm		10ppm							12.5 ppm
Fe		50 ppm			1000ppm						50 ppm
Hg						0.1 ppm	0.1 ppm	1.0 ppb	1.0 ppb		
K			2500 ppm		1000ppm						
Mg			2500 ppm		1000ppm						
Mn		25 ppm		10ppm							25 ppm
Na			2500 ppm		1000ppm						
Ni		25 ppm		10ppm							25 ppm
Pb		25 ppm		10ppm						500 ppm	
Sb		25 ppm		10ppm							25 ppm
Se		100 ppm		10ppm						100 ppm	
Tl		100 ppm		10ppm							100 ppm
V		25 ppm		10ppm							25 ppm
Zn		25 ppm		10ppm							25 ppm
B		50 ppm		10ppm							50 ppm
Sr		50 ppm		10ppm							
Mo		50 ppm		10ppm							50 ppm
W		50 ppm		10ppm							
Sn		100 ppm		10ppm							100 ppm
Zr		50 ppm		10ppm							
Ti		50 ppm		10ppm							

TestAmerica North Canton
Revised 4/5/02
N:\Metals\Preplog.xls

DATE: 5.27.10

METALS PREPARATION REAGENTS/STANDARDS

Reagents and Standards listed on this form are used for the entire day's prep batches unless otherwise noted on the individual prep log.

REAGENT NAME	REAGENT NUMBER
1:1 HNO_3 (nitric acid)	OMR 359
1:1 HCl (hydrochloric acid)	OMR 339
HNO_3 (nitric acid)	OMR 316
HCl (hydrochloric acid)	OMR 334
$KMnO_4$ (potassium permanganate)	OMR 352
$K_2S_2O_8$ (potassium persulfate)	OMR 280
H_2O_2 (hydrogen peroxide)	OMR 166
H_2SO_4 (sulfuric acid)	OMR 317
HCl/HNO_3 (aqua regia)	OMR 360

STANDARD NAME	STANDARD/LOT NUMBER
ICP-1	OE217
ICP-2A	OE213
RCRA	HPS 0935009
non-RCRA	HPS 0927320
Ag	OE243
Hg	OE255
ICPMS-1	HPS1008912A HPS1008921B
ICPMS-2	HPS0930821

Filter Paper Lot #
K 11592821 A

0147-017

Waters

Hg time in the water bath (HB1) 8:50
Hg time out of the water bath (HB1) 10:50

Solids

Hg time in the water bath (HB1) 11:20
Hg time out of the water bath (HB1) 11:50

Times listed are for the waters and solids for that day unless otherwise noted.

All solid batches were weighed on balance number B030 unless otherwise noted.

Daily Batch Level II Lisa McGall

Test America North Canton
Revision Date: 4/4/08
N:\Metals/Reagent2.doc

GENERAL CHEMISTRY DATA

SAMPLE DATA

TestAmerica Seattle

Client Sample ID: 01HMSD

General Chemistry

Lot-Sample #...: A0E210615-005 **Work Order #...:** L1XLM **Matrix.....:** SO
Date Sampled...: 05/04/10 13:00 **Date Received..:** 05/21/10
% Moisture.....: 68

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**31.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**05/28-06/01/10**	**0148123**

Dilution Factor: 1 MDL.....: 10.0

TestAmerica Seattle

Client Sample ID: 02HMSD

General Chemistry

Lot-Sample #...: A0E210615-006 **Work Order #...:** L1XLN **Matrix.....:** SO
Date Sampled...: 05/04/10 15:45 **Date Received..:** 05/21/10
% Moisture.....: 7.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**92.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**05/28-06/01/10**	**0148123**

Dilution Factor: 1 MDL.....: 10.0

TestAmerica Seattle

Client Sample ID: 03HMSD

General Chemistry

Lot-Sample #...: A0E210615-007 **Work Order #...:** L1XLP **Matrix.....:** SO
Date Sampled...: 05/07/10 13:39 **Date Received..:** 05/21/10
% Moisture.....: 20

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**80.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**05/28-06/01/10**	**0148123**

Dilution Factor: 1 MDL.....: 10.0

TestAmerica Seattle

Client Sample ID: 03CSBG

General Chemistry

Lot-Sample #...: A0E210615-008 **Work Order #...:** L1XLQ **Matrix.....:** SO
Date Sampled...: 05/16/10 15:10 **Date Received..:** 05/21/10
% Moisture.....: 3.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**96.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**05/28-06/01/10**	**0148123**

Dilution Factor: 1 MDL.....: 10.0

TestAmerica Seattle

Client Sample ID: 01HMBG

General Chemistry

Lot-Sample #...: A0E210615-018 **Work Order #...:** L1XL6 **Matrix.....:** SO
Date Sampled...: 05/07/10 08:25 **Date Received..:** 05/21/10
% Moisture.....: 26

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**74.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**05/28-06/01/10**	**0148123**

Dilution Factor: 1 MDL.....: 10.0

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A0E210615 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: L17JT1AA		MB Lot-Sample #:	A0E280000-123	
	ND	10.0	%	MCAWW 160.3 MOD	05/28-06/01/10	0148123
		Dilution Factor: 1				

NOTE(S):

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

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0E210615 **Work Order #...:** L15E5-SMP L15E5-DUP **Matrix.....:** SOLID
Date Sampled...: 05/26/10 08:05 **Date Received..:** 05/27/10
% Moisture.....: 4.8

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A0E270428-002		
	95.2	95.0	%	0.18	(0-20)	MCAWW 160.3 MOD	05/28-06/01/10	0148123

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A0E210615 **Work Order #...:** L16QR-SMP L16QR-DUP **Matrix.....:** SOLID
Date Sampled...: 05/27/10 **Date Received..:** 05/27/10
% Moisture.....: 10

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #:	A0E270590-003	
	89.9	90.1	%	0.18	(0-20)	MCAWW 160.3 MOD	05/28-06/01/10	0148123

Dilution Factor: 1

SUPPORTIVE RAW DATA

			TestAmerica, North Canton			
		Percent Total Solid/Percent Moisture Logsheet				
		Method 160.3, 160.5, D2216-90, D1553-83				
Analysis	TS			Batch		148123
Prep Date	5/28/2010	Time In	11:22	Analyst	KH	
Anal date	6/1/2010	Time Out	6:45	RL	10	
Oven	**2**	Balance	**6**	Due Date:	**6/1/2010**	
Sample	Tare	Wet	Dry	Result TS	Result MS	Time
ID	wt	wt	wt	%	%	
BLANK	4.659	4.5868	4.5721	2.41	ND	10:44
L1XEH1AA	4.659	14.6418	14.4767	98.346	1.654	10:44
L1XEN1AA	4.659	10.5611	9.6337	84.287	15.713	10:44
L1XER1AA	4.659	10.7173	10.0335	88.713	11.287	10:45
L1XEW1AA	4.659	9.2907	8.9811	93.316	6.684	10:45
L1XLM1AA	4.659	11.0113	6.6677	31.622	68.378	10:45
L1XLN1AA	4.659	12.7119	12.1308	92.784	7.216	10:45
L1XLP1AA	4.659	15.4337	13.2860	80.067	19.933	10:46
L1XLQ1AA	4.659	14.2480	13.9401	96.789	3.211	10:46
L1XL61AA	4.659	7.6389	6.8697	74.187	25.813	10:46
L16P21AA	4.659	11.6850	10.9745	89.888	10.112	10:46
L16QQ1AA	4.659	9.8001	9.3066	90.401	9.599	10:47
L16QR1AA	4.659	9.9444	9.4113	89.914	10.086	10:47
L16QR1AD X	4.659	9.0011	8.5700	90.072	9.928	10:47
L16QT1AA	4.659	10.7920	10.2618	91.355	8.645	10:47
L16QV1AA	4.659	10.7022	10.1602	91.031	8.969	10:47
L16VK1AA	4.659	7.8105	7.5375	91.337	8.663	10:48
L16VT1AA	4.659	15.6920	15.0236	93.942	6.058	10:48
L16VW1AA	4.659	12.4647	12.1403	95.844	4.156	10:48
L15EH1AA	4.659	13.2709	12.7128	93.519	6.481	10:48
L15E51AA	4.659	9.3548	9.1299	95.211	4.789	10:48
L15E51AD X	4.659	7.7752	7.6206	95.039	4.961	10:49
L15E61AA	4.659	14.4853	13.9278	94.326	5.674	10:49

TestAmerica North Canton

Sample Control Chain of Custody for General Chemistry

Lot Number	Sample	Suffix	Lab ID	Test	Prep Date	Prepared by	Analysis Date	Analyzed by
A0E210615	5		L1XLM1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	05/28/10	Kyle Henry	06/01/10	Kyle Henry
A0E210615	6		L1XLN1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	05/28/10	Kyle Henry	06/01/10	Kyle Henry
A0E210615	7		L1XLP1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	05/28/10	Kyle Henry	06/01/10	Kyle Henry
A0E210615	8		L1XLQ1AA	Solids, Percent (as TS - 160.3 MOD) - Solids	05/28/10	Kyle Henry	06/01/10	Kyle Henry
A0E210615	18		L1XL61AA	Solids, Percent (as TS - 160.3 MOD) - Solids	05/28/10	Kyle Henry	06/01/10	Kyle Henry

END OF REPORT

Shipping and Receiving Documents

Chain of Custody Record

19403

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact

Company Name: Ecology and Environment	Client Project Manager: Jim Petersen	Site Contact:	Lab Contact:	COC No:
Address: 333 SW Fifth Ave, Suite 600	Telephone: 503-248-5600	Telephone:	Telephone:	1 of 3 COCs
City/State/Zip: Portland, OR 97204	Email: JPetersen@ene.com			
Phone: 503-248-5600				
Project Name: Contact, Sonoma, Helen	Method of Shipment/Carrier:			
Project Number: 001096.0x 75/76	Shipping/Tracking No:			
PO #				

Analysis Turnaround Time (in BUS days)

TAT if different from below _____

☐ 3 weeks
☐ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

For lab use only

☐ Walk-in client
☐ Lab pickup
☐ Lab sampling

Job/SDG No:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses: low level hg	dissolved metals	Methyl Hg	TAL METALS							Sample Specific Notes / Special Instructions:
09HMMW	5-16-10	11:15		X					X	X			X		N	G	X	X	X								
01CMMW	5-15-10	13:50		X					X	X			X		N	G	X	X	X								
03CMMW	5-16-10	16:25		X					X	X			X		Y	G	X	X	X								
07CMMW	5-16-10	15:45		X					X	X			X		Y	G	X	X	X								
01HMSD	5-4-10	1300			X								X				X		X	X							
02HMSD	5-4-10	1545			X								X				X		X	X							
03HMSD	5-7-10	1339			X								X				X		X	X							

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	E+E	5-17-10 0900	Tom [signature]	TA-Sea	5/18/10 0955
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

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* Ran out of custody seals so used blank stick

TAL-0018 (1008)

Chain of Custody Record

19403

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact			
Company Name: Ecology and Environment	Client Project Manager: Jim Petersen	Site Contact:	Lab Contact:	COC No:
Address: 333 SW Fifth Ave Suite 600	Telephone: 503-248-5600	Telephone:	Telephone:	2 of 3 COCs
City/State/Zip: Portland, OR 97204	Email: JPetersen@ene.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 503-248-5600		TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: Contact, Sonoma, Helen	Method of Shipment/Carrier:			
Project Number: 001096.0X75/76	Shipping/Tracking No:			Job/SDG No:
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	TAL Metals	low level Hg	Dissolved Metals	Methyl Mercury							Sample Specific Notes / Special Instructions:
03CSBG	5-16-10	1510				X							X				X	X									
01SMMW	5-15-10	12:00		X					X	X			X		N	G		X	X	X							
04SMMW	5-14-10	18:45		X					X	X			X		N	G		X	X	X							
06SMMW	5-14-10	16:55		X					X	X			X		N	G		X	X	X							
07SMMW	5-14-10	14:20		X					X	X			X		N	G		X	X	X							
09SMMW	5-14-10	13:30		X					X	X			X		N	G		X	X	X							
01HMMW	5-16-10	08:00		X					X	X			X		N	G		X	X	X							
03HMSW	5-16-10	08:30		X					X	X			X		N	G		X	X	X							
04HMMW	5-16-10	10:00		X					X	X			X		N	G		X	X	X							
06HMMW	5-16-10	12:00		X					X	X			X		N	G		X	X	X							

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Courtney Funk	E+E	5-17-10 0900	Tom Blanks	TA-Sea	5/18/10 0950
			Received in Laboratory by:		

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TAL-0018 (1008)

Ran out of custody seals so used blank stickers on coolers 1, 2, 3

Chain of Custody Record

19403

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact

Company Name: Ecology and Ecology, Inc.	Client Project Manager: Jim Petersen	Site Contact:	Lab Contact:	COC No:
Address: 333 SW Fifth Ave Suite 600	Telephone: 503-248-5600 ex 2719	Telephone:	Telephone:	3 of 3 COCs
City/State/Zip: Portland OR, 97204	Email: JPetersen@ENE.com			
Phone: 503-248-5600 ex 2719				
Project Name: Helen, Contact and Sonoma Mines	Method of Shipment/Carrier:			
Project Number: 001096.0X74/75	Shipping/Tracking No:			
PO #				

Analysis Turnaround Time (in BUS days)
TAT if different from below _____
☐ 3 weeks
☐ 2 weeks
☐ 1 week
☐ 2 days
☐ 1 day

For lab use only
☐ Walk-in client
☐ Lab pickup
☐ Lab sampling
Job/SDG No:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C/ Grab=G	Analyses: TAL Metals + Hg	TAL Metals	Low Level Hg							Sample Specific Notes / Special Instructions:
18SMSS	5-10-10	0915				X							X				X									
CompHMRT	5-5-10	0917				X							X				X									
01HMRT	5-5-10	0855				X							X				X									
01HMBG	5-7-10	0825				X							X			C	X	X	X							
04SMSS	5-9-10	0830				X							X				X									
05SMSS	5-9-10	0840				X							X				X									
06SMSS	5-9-10	0846				X							X				X									
07SMSS	5-9-10	0910				X							X				X									
08SMSS	5-9-10	0925				X							X				X									
09SMSS	5-9-10	0935				X							X				X									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Pauline Hunt	E+E	5-17-10 0900	Tom Blank	TA-Sea	5/18/10 0950
			Received in Laboratory by:		

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TAL-0018 (1008)

☆ Ran out of custody seals so used stickers on coolers 1, 2 and 3

Login Sample Receipt Check List

Client: Ecology and Environment, Inc.

Job Number: 580-19403-1

Login Number: 19403

List Source: TestAmerica Tacoma

Creator: Blankinship, Tom

List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	The cap of the LL Hg jar (B) of Sx-6 rc'vd cracked.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	