Report of Trace Metals Analyses
Water, Sediment

Project: Great Salt Lake Water Quality Sampling Plan
Samples Collected: August 14-16, 2012
Report Date: October 8, 2012

Prepared for:
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Brooks Rand Labs
Project ID: UDE-SL1201
## Table of Contents

- Case Narrative ................................................................................................................ 3
- Report Information ........................................................................................................... 6
- Sample Information ......................................................................................................... 7
- Batch Summary ............................................................................................................... 7
- Sample Results ............................................................................................................... 8
- Accuracy & Precision Summary .................................................................................... 10
- Method Blanks & Reporting Limits ................................................................................ 14
- Instrument Calibration ................................................................................................... 18
- Sample Containers ........................................................................................................ 23
- Shipping Containers ...................................................................................................... 25
- Chain-of-Custody Form(s) ............................................................................................. 26
- Waybill(s) ...................................................................................................................... 28
- Mercury Water Data Sequence 1200682, Batch B121582 ............................................ 29
- Trace Metals Water Data Sequence 1200711, Batch B121544 .................................... 57
- Trace Metals Sediment Data Sequence 1200726, Batch B121713 ............................ 891
- Percent Total Solids Data Batch B121638 ................................................................ 1087
Case Narrative

Shipping and Receiving
On August 17, 2012, Brooks Rand Labs (BRL) received twelve (12) waters and two (2) sediment samples at 08:45 A.M. in one (1) cooler with ice all at the temperature of 2.0 °C. The chain-of-custody (COC) forms requested analysis for mercury (Hg) and selenium (Se) of the water samples, and total Se and percent total solids (%TS) for the sediment samples. The samples were received and stored securely according to BRL standard operating procedures (SOP) and EPA methodology.

Preservation and Holding Time
All method and SOP requirements for preservation and holding time were satisfied.

Total Mercury in Water by EPA Method 1631 (SOP BR-0006)
All samples are prepared and analyzed in accordance with EPA Method 1631. Samples are oxidized with bromine monochloride (BrCl) and then analyzed with stannous chloride (SnCl2) reduction, single gold amalgamation, and cold vapor atomic fluorescence spectroscopy (CVAFS) detection using a BRL Model III CVAFS Mercury Analyzer.

The results were method blank-corrected as described in the calculations section of the relevant BRL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the Sample Results page for sample-specific MDLs, MRLs, and other details.

Sequence 1200682
The result of continuing calibration blank CCB2 was elevated and the CCB/purge vessel (#3) combination were re-analyzed as CCB5 and CCB6. Contamination was suspected to be attributed to the analysis of high level sample 1234035-12 (not related to this work order). CCB6 yielded a result of 11.8 pg of Hg and purge vessel #3 was put back into service. Two samples using purge vessel #3 were analyzed prior to CCB6; one of which was sample AIC-Hg-201 (1233038-09). This sample was re-analyzed and the re-analysis was reported.

The sample identified as ICB1 is an extraction blank unrelated to this work order.

Instrument calibration, meeting all quality control criteria, was successfully achieved on the day of sample analysis.

Batch B121582
The initial analysis of sample OGBA2-FBHp (1233038-01) produced an abnormal peak shape. The sample was re-analyzed, produced a typical peak shape, and the re-analysis was reported. Furthermore the sample result was greater than the MDL but less than the Method Defined Control limit of 0.5 ng/L. Contamination was considered insignificant from this field blank.

All data was reported without additional qualification, aside from concentration qualifiers, and all other associated quality control sample results met the acceptance criteria.
ICP-MS Analysis by EPA Draft Method 1640, Mod. (BRL SOP BR-0066)
Samples are preserved to 0.2% (v/v) with pre-tested concentrated HNO3 and then prepared by reductive precipitation (RP) according to EPA Method 1640. The procedure concentrates the samples by a factor of four and is a useful method for achieving a low level of detection for brackish waters and seawaters.

This method involves a reductive precipitation of all metals by sodium borohydride (NaBH4) followed by a filtration of the precipitate through a pre-cleaned 0.2-μm filter. The majority of the saltwater matrix remains in the filtrate. The metals on the filter are then digested and oxidized with nitric acid (HNO3) and hydrogen peroxide (H2O2).

Aliquots of prepared sample were analyzed with a Perkin Elmer ELAN with internal standardization. Briefly, this method incorporates ionization of the sample in inductively coupled RF plasma, with detection of the resulting ions by mass spectrometer on the basis of their mass-to-charge ratio.

Sequence 1200711
Instrument calibration blank ICB3 was elevated at a level greater than the low calibration standard. The cause was likely carryover from the high calibration standard analyzed immediately prior to ICB3. There was no other evidence of high blank and the analysis of ICB3 did not bracket the analysis of client samples.

Instrument calibration, meeting all quality control criteria, was successfully achieved on the day of sample analysis.

Batch B121544
Quality control samples –MS3 was a seawater sample collected in Puget Sound and spiked with an analyte of a known concentration. All quality assurance criteria were satisfied.

ICP-MS Analysis by EPA Draft Method 1638, Mod. (BRL SOP BR-0060)
Sediment samples are digested with a closed-vessel reverse aqua regia (RAR) oven bomb digestion for total recoverable metals. Prepared samples are analyzed by inductively coupled plasma – mass spectrometry (ICP-MS) according to a modification of EPA Draft Method 1638. Briefly, this method incorporates ionization of the sample in an inductively coupled RF plasma, with detection of the resulting ions by mass spectrometer on the basis of their mass-to-charge ratio. Digestates are diluted with reagent water 50x prior to analysis, depending upon the element and concentration ranges to be determined. Samples are analyzed on a Perkin Elmer DRC II (in standard mode), and internal standardization in standard mode is accomplished using 6Li, Sc, Ge, In, Tm. Sample results were reported on a dry-weight basis.

Sequence 1200726
The results of instrument calibration blanks ICB2 and ICB3 were greater than the low calibration standard. The cause was likely carryover from the high calibration standard and the independent calibration verification standard (ICV1); both of which were analyzed prior to ICB2 and ICB3. No client samples were bracketed by either ICB and no further action was necessary.

The analyses of CCBE through CCBH were slightly elevated; however the results at the instrument were less than 10x the sample results. No further action was necessary.

Instrument calibration, meeting all quality control criteria, was successfully achieved on the day of sample analysis.
Batch B121713
All data was reported without qualification, aside from concentration qualifiers, and all associated quality control sample results met the acceptance criteria.

Percent Total Solids in Solids by SM 2540G (SOP BR-1501)
A solid sample is homogenized and an aliquot is measured into a pre-weighed vessel, dried in an oven overnight, weighed again, and the percent of dried solid material is calculated.

The results may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the Sample Results page for sample-specific MDLs, MRLs, and other details.

Batch B121638
All data was reported without qualification and all associated quality control sample results met the acceptance criteria.

We certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more details, please see the Report Information page in your report. Please feel free to contact us if you have any questions regarding this report.

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Report Information

Laboratory Accreditation

BRL is accredited by the National Environmental Laboratory Accreditation Program (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <http://www.brooksrand.com/default.asp?contentID=586>. Results reported relate only to the samples listed in the report.

Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

Common Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tr>
<td>BLK</td>
<td>method blank</td>
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<tr>
<td>BRL</td>
<td>Brooks Rand Labs</td>
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<tr>
<td>BS</td>
<td>laboratory fortified blank</td>
</tr>
<tr>
<td>CAL</td>
<td>calibration standard</td>
</tr>
<tr>
<td>CCV</td>
<td>continuing calibration verification</td>
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<td>COC</td>
<td>chain of custody record</td>
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<td>CRM</td>
<td>certified reference material</td>
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<td>D</td>
<td>dissolved fraction</td>
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<td>DUP</td>
<td>duplicate</td>
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<td>ICV</td>
<td>initial calibration verification</td>
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<td>MRL</td>
<td>method reporting limit</td>
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<td>method detection limit</td>
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<td>MSD</td>
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<td>ND</td>
<td>non-detect</td>
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<td>NR</td>
<td>non-reportable</td>
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<td>PS</td>
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<td>REC</td>
<td>percent recovery</td>
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<td>RPD</td>
<td>relative percent difference</td>
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<td>standard operating procedure</td>
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<td>SRM</td>
<td>standard reference material</td>
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<td>T</td>
<td>total recoverable fraction</td>
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Definition of Data Qualifiers

(Effective 9/23/09)

B Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.

E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.

H Holding time and/or preservation requirements not met. Result is estimated.

J Estimated value. A full explanation is presented in the narrative.

J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.

J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.

M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.

N Spike recovery was not within acceptance criteria. Result is estimated.

R Rejected, unusable value. A full explanation is presented in the narrative.

U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.

X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.
Sample Information

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Batch Summary

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## Sample Results

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### Sample Results

<table>
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<tr>
<th>Sample</th>
<th>Analyte</th>
<th>Report Matrix</th>
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# Accuracy & Precision Summary

**Batch:** B121544  
**Lab Matrix:** Water  
**Method:** EPA 1640 RP

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<th>Result</th>
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<th>REC &amp; Limits</th>
<th>RPD &amp; Limits</th>
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<td>Laboratory Fortified Blank (1235007)</td>
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<tr>
<td>B121544-MS3</td>
<td>Matrix Spike (0944029-92)</td>
<td>0.091</td>
<td>0.4975</td>
<td>0.627</td>
<td>µg/L</td>
<td>108%</td>
<td>70-130</td>
</tr>
<tr>
<td></td>
<td>Se</td>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>B121544-DUP2</td>
<td>Duplicate (1233038-12)</td>
<td>0.640</td>
<td>0.553</td>
<td>µg/L</td>
<td>15%</td>
<td>30</td>
<td></td>
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<tr>
<td></td>
<td>Se</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>B121544-MS2</td>
<td>Matrix Spike (1233038-12)</td>
<td>0.640</td>
<td>2.475</td>
<td>2.430</td>
<td>µg/L</td>
<td>72%</td>
<td>70-130</td>
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<tr>
<td>B121544-MSD2</td>
<td>Matrix Spike Duplicate (1233038-12)</td>
<td>0.640</td>
<td>2.494</td>
<td>2.569</td>
<td>µg/L</td>
<td>77%</td>
<td>6% 30</td>
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</table>
Accuracy & Precision Summary

**Batch:** B121582  
**Lab Matrix:** Water  
**Method:** EPA 1631

<table>
<thead>
<tr>
<th>Sample</th>
<th>Analyte</th>
<th>Native</th>
<th>Spike</th>
<th>Result</th>
<th>Units</th>
<th>REC &amp; Limits</th>
<th>RPD &amp; Limits</th>
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</thead>
<tbody>
<tr>
<td>B121582-SRM1</td>
<td>Certified Reference Material (1232065, NIST 1641d 1000x dilution)</td>
<td>15.68</td>
<td>14.67</td>
<td>ng/L</td>
<td>94%</td>
<td>85-115</td>
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<tr>
<td>B121582-MS1</td>
<td>Matrix Spike (1235006-03)</td>
<td>11.35</td>
<td>56.09</td>
<td>68.69</td>
<td>ng/L</td>
<td>102%</td>
<td>71-125</td>
</tr>
</tbody>
</table>
| B121582-MSD1    | Matrix Spike Duplicate (1235006-03)          | 11.35  | 54.54 | 63.85  | ng/L  | 96%          | 71-125       | 7% 24
# Accuracy & Precision Summary

**Batch:** B121638  
**Lab Matrix:** Soil/Sediment  
**Method:** SM 2540G

<table>
<thead>
<tr>
<th>Sample</th>
<th>Analyte</th>
<th>Native</th>
<th>Spike</th>
<th>Result</th>
<th>Units</th>
<th>REC &amp; Limits</th>
<th>RPD &amp; Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>B121638-DUP1</td>
<td>Duplicate (1233038-13)</td>
<td>%TS</td>
<td>66.76</td>
<td>61.08</td>
<td>%</td>
<td>9%</td>
<td>15%</td>
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</table>
## Accuracy & Precision Summary

**Batch:** B121713  
**Lab Matrix:** Soil/Sediment  
**Method:** EPA 1638 DRC

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<th>Spike</th>
<th>Result</th>
<th>Units</th>
<th>REC &amp; Limits</th>
<th>RPD &amp; Limits</th>
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<tr>
<td>B121713-BS1</td>
<td>Laboratory Fortified Blank (1235021)</td>
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<td>10.00</td>
<td>9.35</td>
<td>mg/kg</td>
<td>93%</td>
<td>75-125</td>
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<tr>
<td>B121713-SRM1</td>
<td>Certified Reference Material (0919050, NIST 2709a)</td>
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<td>1.500</td>
<td>1.87</td>
<td>mg/kg</td>
<td>125%</td>
<td>N/A</td>
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<td>B121713-SRM2</td>
<td>Certified Reference Material (0919053, NIST 2710a)</td>
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<td>0.96</td>
<td>mg/kg</td>
<td>96%</td>
<td>75-125</td>
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<tr>
<td>B121713-DUP3</td>
<td>Duplicate (1233038-14)</td>
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<td>0.90</td>
<td>1.06</td>
<td>mg/kg dry</td>
<td>16%</td>
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<td>B121713-MS3</td>
<td>Matrix Spike (1233038-14)</td>
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<td>0.90</td>
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<td>B121713-MSD3</td>
<td>Matrix Spike Duplicate (1233038-14)</td>
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<td>0.90</td>
<td>19.09</td>
<td>mg/kg dry</td>
<td>92%</td>
<td>70-130</td>
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Method Blanks & Reporting Limits

Batch: B121544  
Matrix: Water  
Method: EPA 1640 RP  
Analyte: Se 82

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<th>Sample</th>
<th>Result</th>
<th>Units</th>
<th>Sample</th>
<th>Result</th>
<th>Units</th>
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<tbody>
<tr>
<td>B121544-BLK1</td>
<td>0.010</td>
<td>µg/L</td>
<td>B121544-BLK2</td>
<td>0.014</td>
<td>µg/L</td>
<td>B121544-BLK3</td>
<td>-0.013</td>
<td>µg/L</td>
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<td>B121544-BLK4</td>
<td>0.012</td>
<td>µg/L</td>
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Average: 0.006  
Limit: 0.210  
Standard Deviation: 0.013  
Limit: 0.070  
MDL: 0.070  
MRL: 0.210
**Method Blanks & Reporting Limits**

**Batch:** B121582  
**Matrix:** Water  
**Method:** EPA 1631  
**Analyte:** Hg

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<th>Average</th>
<th>Standard Deviation</th>
<th>Limit</th>
<th>MDL</th>
<th>MRL</th>
</tr>
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<tbody>
<tr>
<td>B121582-BLK1</td>
<td>0.12</td>
<td>ng/L</td>
<td>0.10</td>
<td>0.02</td>
<td>0.50</td>
<td>0.15</td>
<td>0.41</td>
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<tr>
<td>B121582-BLK2</td>
<td>0.11</td>
<td>ng/L</td>
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<tr>
<td>B121582-BLK3</td>
<td>0.10</td>
<td>ng/L</td>
<td></td>
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<tr>
<td>B121582-BLK4</td>
<td>0.08</td>
<td>ng/L</td>
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**MDL:** 0.15  
**Limit:** 0.50  
**MRL:** 0.41
Method Blanks & Reporting Limits

**Batch:** B121638  
**Matrix:** Soil/Sediment  
**Method:** SM 2540G  
**Analyte:** %TS

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>B121638-BLK1</td>
<td>0.00</td>
<td>%</td>
</tr>
<tr>
<td>B121638-BLK2</td>
<td>0.00</td>
<td>%</td>
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</table>

**Average:** 0.00  
**Limit:** 0.20  
**MDL:** 0.06  
**MRL:** 0.20
## Method Blanks & Reporting Limits

**Batch:** B121713  
**Matrix:** Soil/Sediment  
**Method:** EPA 1638 DRC  
**Analyte:** Se 78

<table>
<thead>
<tr>
<th>Sample</th>
<th>Result</th>
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</thead>
<tbody>
<tr>
<td>B121713-BLK1</td>
<td>-0.06</td>
<td>mg/kg</td>
</tr>
<tr>
<td>B121713-BLK2</td>
<td>-0.13</td>
<td>mg/kg</td>
</tr>
<tr>
<td>B121713-BLK3</td>
<td>-0.12</td>
<td>mg/kg</td>
</tr>
<tr>
<td>B121713-BLK4</td>
<td>-0.08</td>
<td>mg/kg</td>
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Average: -0.10  
Standard Deviation: 0.03  
MDL: 0.16  
Limit: 1.00  
Limit: 0.16  
MRL: 1.00
Instrument Calibration

**Sequence:** 1200682  
**Instrument:** THG-05  
**Date:** 09/04/2012  
**Analyte:** Hg

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<th>Lab ID</th>
<th>True Value</th>
<th>Result</th>
<th>Units</th>
<th>REC &amp; Limits</th>
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</thead>
<tbody>
<tr>
<td>1200682-IBL1</td>
<td>6.02</td>
<td>pg of Hg</td>
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<tr>
<td>1200682-IBL2</td>
<td>4.41</td>
<td>pg of Hg</td>
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<tr>
<td>1200682-IBL3</td>
<td>4.90</td>
<td>pg of Hg</td>
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<tr>
<td>1200682-IBL4</td>
<td>5.70</td>
<td>pg of Hg</td>
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<tr>
<td>1200682-CAL1</td>
<td>25.00</td>
<td>24.92</td>
<td>pg of Hg</td>
<td>100%</td>
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<tr>
<td>1200682-CAL2</td>
<td>100.0</td>
<td>101.4</td>
<td>pg of Hg</td>
<td>101%</td>
</tr>
<tr>
<td>1200682-CAL3</td>
<td>500.0</td>
<td>468.1</td>
<td>pg of Hg</td>
<td>94%</td>
</tr>
<tr>
<td>1200682-CAL4</td>
<td>2500</td>
<td>2674</td>
<td>pg of Hg</td>
<td>107%</td>
</tr>
<tr>
<td>1200682-CAL5</td>
<td>10000</td>
<td>9923</td>
<td>pg of Hg</td>
<td>99%</td>
</tr>
<tr>
<td>1200682-ICV1</td>
<td>1568</td>
<td>1467</td>
<td>pg of Hg</td>
<td>94% 85-115</td>
</tr>
<tr>
<td>1200682-CCV1</td>
<td>500.0</td>
<td>419.2</td>
<td>pg of Hg</td>
<td>84% 77-123</td>
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<tr>
<td>1200682-CCB1</td>
<td>13.2</td>
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<td>1200682-CCB2</td>
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<td>1200682-CCB3</td>
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<td>1200682-CCB5</td>
<td>18.4</td>
<td>pg of Hg</td>
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<td>1200682-CCB6</td>
<td>29.3</td>
<td>pg of Hg</td>
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<tr>
<td>1200682-CCB7</td>
<td>11.8</td>
<td>pg of Hg</td>
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<tr>
<td>1200682-CCB8</td>
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<td>544.2</td>
<td>pg of Hg</td>
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<td>504.0</td>
<td>pg of Hg</td>
<td>101% 77-123</td>
</tr>
<tr>
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<td>500.0</td>
<td>475.0</td>
<td>pg of Hg</td>
<td>95% 77-123</td>
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**Total Mercury and Mercury Speciation by CVAFS**  
**Method:** EPA 1631
## Instrument Calibration

**Sequence:** 1200711  
**Instrument:** ICP-MS-2  
**Date:** 09/14/2012  
**Analyte:** Se 82

<table>
<thead>
<tr>
<th>Lab ID</th>
<th>True Value</th>
<th>Result</th>
<th>Units</th>
<th>REC &amp; Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200711-ICB1</td>
<td>0.2000</td>
<td>0.192</td>
<td>µg/L</td>
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</tr>
<tr>
<td>1200711-CAL1</td>
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<td>0.433</td>
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<tr>
<td>1200711-CAL2</td>
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<td>2.003</td>
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<td>100%</td>
</tr>
<tr>
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<td>1200711-CAL4</td>
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<td>1200711-CAL5</td>
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<td>1200711-IBL1</td>
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<td>µg/L</td>
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<td>1200711-IBL3</td>
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<tr>
<td>1200711-CCV1</td>
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<td>1200711-CCB1</td>
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<tr>
<td>1200711-CCV5</td>
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<td>1200711-CCB8</td>
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<td>20.55</td>
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<td>1200711-CCBA</td>
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<td>1200711-CCBC</td>
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</tr>
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<td>1200711-CCVD</td>
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<td>20.02</td>
<td>µg/L</td>
<td>100% 75-125</td>
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Instrument Calibration

Sequence: 1200711
Instrument: ICP-MS-2
Date: 09/14/2012
Analyte: Se 82

<table>
<thead>
<tr>
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<th>True Value</th>
<th>Result</th>
<th>Units</th>
<th>REC &amp; Limits</th>
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<tbody>
<tr>
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<td>20.44</td>
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<td>102% 75-125</td>
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<td>1200711-CCBE</td>
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<td>1200711-CCBG</td>
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<tr>
<td>1200711-CCCG</td>
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<tr>
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## Instrument Calibration

**Sequence:** 1200726  
**Instrument:** ICP-MS-2  
**Date:** 09/19/2012  
**Analyte:** Se 78

<table>
<thead>
<tr>
<th>Lab ID</th>
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<th>Units</th>
<th>REC &amp; Limits</th>
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<tbody>
<tr>
<td>1200726-ICB1</td>
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<td>1200726-CAL2</td>
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<tr>
<td>1200726-CAL5</td>
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## Instrument Calibration

**Sequence:** 1200726  
**Instrument:** ICP-MS-2  
**Date:** 09/19/2012  
**Analyte:** Se 78  

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<th>Units</th>
<th>REC &amp; Limits</th>
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<td>µg/L</td>
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<tr>
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## Sample Containers

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<tr>
<th>Lab ID: 1233038-01</th>
<th>Sample: OGBA2-FBHg</th>
<th>Report Matrix: DIW</th>
<th>Collected: 08/16/2012</th>
<th>Received: 08/17/2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Des</td>
<td>Container</td>
<td>Size</td>
<td>Lot</td>
<td>Preservation</td>
</tr>
<tr>
<td>A</td>
<td>Bottle FLPE Hg-T</td>
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<td>71666330</td>
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</table>

<table>
<thead>
<tr>
<th>Lab ID: 1233038-02</th>
<th>Sample: OGBA2-Hg 01</th>
<th>Report Matrix: Water</th>
<th>Collected: 08/16/2012</th>
<th>Received: 08/17/2012</th>
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</thead>
<tbody>
<tr>
<td>Des</td>
<td>Container</td>
<td>Size</td>
<td>Lot</td>
<td>Preservation</td>
</tr>
<tr>
<td>A</td>
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<table>
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<th>Report Matrix: Water</th>
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</thead>
<tbody>
<tr>
<td>Des</td>
<td>Container</td>
<td>Size</td>
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<td>Preservation</td>
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<th>Report Matrix: DIW</th>
<th>Collected: 08/16/2012</th>
<th>Received: 08/17/2012</th>
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</thead>
<tbody>
<tr>
<td>Des</td>
<td>Container</td>
<td>Size</td>
<td>Lot</td>
<td>Preservation</td>
</tr>
<tr>
<td>A</td>
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<td>1 L</td>
<td>1068522</td>
<td>0.2% HNO3 (BRL)</td>
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<table>
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<th>Lab ID: 1233038-05</th>
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<th>Report Matrix: Water</th>
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</thead>
<tbody>
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<td>Des</td>
<td>Container</td>
<td>Size</td>
<td>Lot</td>
<td>Preservation</td>
</tr>
<tr>
<td>A</td>
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3958 6th Avenue NW Seattle WA 98107 · P(206) 632-6206 · F(206) 632-6017 · brl@brooksrand.com · www.brooksrand.com

23 of 1090
## Sample Containers

### Lab ID: 1233038-06
**Sample**: OGBA2-Se02  
**Report Matrix**: Water  
**Sample Type**: Field Duplicate  
**Received**: 08/16/2012  
**Collected**: 08/17/2012

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<th>Preservation</th>
<th>P-Lot</th>
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<tbody>
<tr>
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<td>0.2% HNO3 (BRL)</td>
<td>1229024</td>
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**pH**: &lt;2  
**Ship. Cont.**: Cardboard Box w/ Styro Cooler

### Lab ID: 1233038-07
**Sample**: AIC-FB-Se2  
**Report Matrix**: DIW  
**Sample Type**: Field Blank  
**Received**: 08/17/2012  
**Collected**: 08/14/2012

<table>
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<tr>
<th>Des</th>
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<th>Size</th>
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<th>Preservation</th>
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<tbody>
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**pH**: &lt;2  
**Ship. Cont.**: Cardboard Box w/ Styro Cooler

### Lab ID: 1233038-08
**Sample**: AIC-FB-Hg2  
**Report Matrix**: DIW  
**Sample Type**: Field Blank  
**Received**: 08/17/2012  
**Collected**: 08/14/2012

<table>
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<tr>
<th>Des</th>
<th>Container</th>
<th>Size</th>
<th>Lot</th>
<th>Preservation</th>
<th>P-Lot</th>
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</thead>
<tbody>
<tr>
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**pH**: &lt;2  
**Ship. Cont.**: Cardboard Box w/ Styro Cooler

### Lab ID: 1233038-09
**Sample**: AIC-Hg-201  
**Report Matrix**: Water  
**Sample Type**: Sample  
**Received**: 08/17/2012  
**Collected**: 08/14/2012

<table>
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<tr>
<th>Des</th>
<th>Container</th>
<th>Size</th>
<th>Lot</th>
<th>Preservation</th>
<th>P-Lot</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>Bottle FLPE Hg-T</td>
<td>500 mL</td>
<td>71666330</td>
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<td>n/a</td>
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</table>

**pH**: &lt;2  
**Ship. Cont.**: Cardboard Box w/ Styro Cooler

### Lab ID: 1233038-10
**Sample**: AIC-Hg-202  
**Report Matrix**: Water  
**Sample Type**: Field Duplicate  
**Received**: 08/17/2012  
**Collected**: 08/14/2012

<table>
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<th>Des</th>
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<th>Lot</th>
<th>Preservation</th>
<th>P-Lot</th>
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</thead>
<tbody>
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<td>71666330</td>
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**pH**: &lt;2  
**Ship. Cont.**: Cardboard Box w/ Styro Cooler
## Sample Containers

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<th>Lab ID</th>
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<th>Sample Type</th>
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<td>Water</td>
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<td>08/14/2012</td>
<td>08/17/2012</td>
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<td>OGBA2-Sed</td>
<td>Soil/Sediment</td>
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<td>AIC-Sed-2</td>
<td>Soil/Sediment</td>
<td>Sample</td>
<td>08/14/2012</td>
<td>08/17/2012</td>
</tr>
</tbody>
</table>

### Shipping Containers

- **Cardboard Box w/ Styro Cooler**
  - Received: August 17, 2012  8:45
  - Tracking No: 5033 6432 0940 via FedEx
  - Coolant Type: Ice
  - Temperature: 2.0 °C
  - Description: Cardboard Box w/ Styro Cooler
  - Damaged in transit? No
  - Returned to client? No
  - Custody seals present? No
  - Custody seals intact? No
  - COC present? Yes
# Chain of Custody Record

**Client:** Weber State University  
**Contact:** Nicole Wilson  
**Address:** 2505 University Circle Ogden, UT 84408-2505  
**COC receipt confirmation?** Y / N  
**If so, by:** email / fax (circle one)

**Client project ID:**  
**PO #:** 801-626-8634  
**Email:**  
**Fax #:**

**Requested TAT in business days:**  
- [ ] 20 (standard)  
- [ ] 15  
- [ ] 10  
- [ ] 5  
- [ ] Other  
**Surcharge applies for expedited turn around times.**

## Collection

<table>
<thead>
<tr>
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<th>Date</th>
<th>Time</th>
<th>Sampler (initials)</th>
<th>Matrix type</th>
<th># of containers</th>
<th>Field filtered? (Y/N)</th>
<th>Unpreserved / Ica only</th>
<th>Other (specify)</th>
<th>Total Hg, EPA 1631</th>
<th>Methyl Hg, EPA 1630</th>
<th>ICP-MS Metals (specify)</th>
<th>As / Se species (specify)</th>
<th>% Solids</th>
<th>Filtration</th>
<th>Other (specify)</th>
<th>Total S</th>
<th>Comments</th>
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**Relinquished by:**  
**Date:** 8/11  
**Time:** 2:25p

**Received by:**  
**Date:** 8/11  
**Time:** 2:45 PM

**Shipping carrier:**  
**# of coolers:**

**Received at BRL by:**  
**Date:** 8/12  
**Time:** 08:45
# Chain of Custody Record

**Client:** Weber State University  
**Contact:** Nacole Wilson  
**Client project ID:**  
**Address:** 2505 University Circle Ogden, Utah 84408-2505  
**COC receipt confirmation?** Y / N  
If so, by: email / fax (circle one)

**Email:**  
**Fax #:**

**Requested TAT in business days:**  
- 20 (standard)  
- 15  
- 10  
- 5  
- Other: [ ]

Surcharges apply for expedited turn around times.

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**Relinquished by:** Nacole Wilson  
**Date:** 8/16/12  
**Time:** 2:25 p.m.

**Received by:** Kathy L.  
**Date:** 8/16/12  
**Time:** 2:46 p.m.

**Shipping carrier:**  
**# of coolers:**  
**BRL work order ID:**  
**BRL project ID:**
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**Analyst:** MCH  
**Date:** 9.4.12  
**Instrument ID:** Thg.05

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**1ng/mL std ID:** 1233055  
**ICV std ID:** 1233012

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**SnCl₂ #:** 1233054

**Initial offset:** 10.000  
**Initial PMT:** 496.0  
**Trap Serial #:** 12152

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**Balance ID:** 60-01
**Hg Analysis Sheet**

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Analyst: MCH  
Date: 9.4.12

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**Analyst:** MCH  
**Date:** 9.4.12

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33 of 1090
**Prepped By:** IRJ
**Batch:** B121582

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**Oven ID:** DV-06
**Thermometer ID:** PL-12
**Date/Time in:** 9-3-12/14:35
**Date/Time out:** 9-4-12
**Oven Temp (measured / corrected):** 60/60

**NOTES:**
- 1237037-01 had a good amount of brown sediment.

* Sample underwent 80% where BrCl was added @ 1% by volume. These were tested w/ potassium iodide paper and BrCl was added only where noted.
- 1235004-03 was also tested after BrCl addition, showing enough excess BrCl was added.

° Total % BrCl added is 6% **IRJ 9-4-12**

° Uncertainty in amount of BrCl added, not noticed until the day after prep. The corrected amount of 4.5 ml (1%) was prorated added but it could be up to 22.5 ml (5%) **IRJ 9-4-12**
## Peak Report

**Batch Number:** B121582  
**Method Number:** CVAFS BR-0006  
**Date Analyzed:** 9/4/12  
**Project Number(s):** 1200682  
**Instrument ID:** THG-05  
**Analyst Name:** MLH

### RunTrapType Name/ID M B Peak Peak Area Analyzed Result Final Result QA Results Criteria Notes

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### Peak Report

**Batch Number:** B121582  
**Method Number:** CVAFS BR-0006  
**Project Number(s):** 1200682  
**Date Analyzed:** 9/4/12  
**Instrument ID:** THG-05  
**Analyst Name:** MLH

#### Run Trap Type Name/ID M B Peak Peak Area Analyzed Result Final Result QA Results Criteria Notes

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Date: 9/4/12  
Time: 9:07 AM

#### Run Trap Type Name/ID M B Peak Peak Area Analyzed Result Final Result QA Results Criteria Notes

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Date: 9/4/12  
Time: 9:14 AM

#### Run Trap Type Name/ID M B Peak Peak Area Analyzed Result Final Result QA Results Criteria Notes

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Date: 9/4/12  
Time: 9:19 AM

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Notes
### Peak Report

**Batch Number:** B121582  
**Method Number:** CVAFS BR-0006  
**Project Number(s):** 1200682  
**Date Analyzed:** 9/4/12  
**Instrument ID:** THG-05  
**Analyst Name:** MLH

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**Graphs:**

1. **Peak rt Area**
   - Date: 9/4/12, Time: 9:23 AM
   - Peak rt: 1
   - Area: 4,346,729

2. **Peak rt Area**
   - Date: 9/4/12, Time: 9:27 AM
   - Peak rt: 1
   - Area: 24,598,955

3. **Peak rt Area**
   - Date: 9/4/12, Time: 9:34 AM
   - Peak rt: 1
   - Area: 91,158,358

---

**Page 3 of 22 (Peak Report)**
Peak Report
Batch Number: B121582
Method Number: CVAFS BR-0006

Project Number(s): 1200682
Date Analyzed: 9/4/12
Instrument ID: THG-05
Analyst Name: MLH

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Time: 9:39 AM

Date: 9/4/12
Time: 9:43 AM

Date: 9/4/12
Time: 9:47 AM
### Peak Report

**Batch Number:** B121582  
**Method Number:** CVAFS BR-0006

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#### Notes

- **Date:** 9/4/12  
- **Time:** 9:54 AM

#### Peak rt Area

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#### Notes

- **Date:** 9/4/12  
- **Time:** 9:59 AM

#### Peak rt Area

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#### Notes

- **Date:** 9/4/12  
- **Time:** 10:06 AM

#### Peak rt Area

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### Peak Report

**Batch Number:** B121582  
**Method Number:** CVAFS BR-0006  
**Project Number(s):** 1200682  
**Date Analyzed:** 9/4/12  
**Instrument ID:** THG-05  
**Analyst Name:** MLH

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**Notes**

**Date:** 9/4/12  
**Time:** 10:10 AM  
**Peak rt Area**  
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**Date:** 9/4/12  
**Time:** 10:14 AM  
**Peak rt Area**  
1 1.52 327,061

**Date:** 9/4/12  
**Time:** 10:19 AM  
**Peak rt Area**  
1 1.57 143,583
## Peak Report

**Batch Number:** B121582  
**Method Number:** CVAFS BR-0006  
**Date Analyzed:** 9/4/12  
**Analyst Name:** MLH

### Project Number(s): 1200682

### Instrument ID: THG-05

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### Date: 9/4/12  
### Time: 10:24 AM

### Peak rt Area

1. **1.58** 136,192

### Date: 9/4/12  
### Time: 10:28 AM

### Peak rt Area

1. **1.65** 2,217,309

### Date: 9/4/12  
### Time: 10:34 AM

### Peak rt Area

1. **1.59** 165,249
2. **2.34** 11,819
3. **2.75** 24

---

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*Page 7 of 22 (Peak Report)*
### Peak Report

**Batch Number:** B121582  
**Method Number:** CVAFS BR-0006  
**Project Number(s):** 1200682  
**Date Analyzed:** 9/4/12  
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**Date:** 9/4/12  
**Time:** 10:44 AM  

**Peak rt Area**  
1. 1.62  
2. >1,570,167,732

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**Date:** 9/4/12  
**Time:** 10:48 AM  

**Peak rt Area**  
1. 0.60 >1,570,167,732  
2. 2.17 >574,978,91

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**Date:** 9/4/12  
**Time:** 11:59 AM  

**Peak rt Area**  
1. 1.57 8,780,802

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**Notes**
# Peak Report

**Batch Number:** B121582  
**Method Number:** CVAFS BR-0006

**Project Number(s):** 1200682  
**Date Analyzed:** 9/4/12  
**Instrument ID:** THG-05  
**Analyst Name:** MLH

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**Date:** 9/4/12  
**Time:** 12:12 PM

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**Date:** 9/4/12  
**Time:** 12:21 PM

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### Notes

**Date:** 9/4/12  
**Time:** 12:26 PM

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43 of 1090
### Peak Report

**Batch Number:** B121582  
**Method Number:** CVAFS BR-0006  
**Date Analyzed:** 9/4/12  
**Analyst Name:** MLH

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**Time:** 12:31 PM

**Peak rt Area**  
1.48 11,553,062

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**Date:** 9/4/12  
**Time:** 12:36 PM

**Peak rt Area**  
1.51 46,184,133

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**Date:** 9/4/12  
**Time:** 12:42 PM

**Peak rt Area**  
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### Peak Report

**Batch Number:** B121582  
**Method Number:** CVAFS BR-0006  
**Date Analyzed:** 9/4/12  
**Analyst Name:** MLH

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**Interval:**

1.15-1.65 min

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**Date:** 9/4/12  
**Time:** 12:52 PM

**Peak rt Area**

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**Interval:**

1.64 min

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**Date:** 9/4/12  
**Time:** 1:45 PM

**Peak rt Area**

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**Interval:**

0.26-1.64 min
### Peak Report

**Batch Number:** B121582  
**Method Number:** CVAFS BR-0006  
**Date Analyzed:** 9/4/12  
**Project Number(s):** 1200682  
**Instrument ID:** THG-05  
**Analyst Name:** MLH

#### Run Trap Type Name/ID M B Peak Peak Area Analyzed Result Final Result QA Results Criteria Notes

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**Graphical Data:**

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**Time:** 1:50 PM

**Graphical Data:**

**Run:** 9/4/12  
**Time:** 1:55 PM

**Graphical Data:**

**Run:** 9/4/12  
**Time:** 2:01 PM

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Page 12 of 22 (Peak Report)
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### Peak Report

**Batch Number:** B121582  
**Method Number:** CVAFS BR-0006  
**Project Number(s):** 1200682  
**Date Analyzed:** 9/4/12  
**Instrument ID:** THG-05  
**Analyst Name:** MLH

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**Graphs:**

- **Graph 1:** Peak rt Area 1 0.36 2,750  
  - 2 0.47 498  
  - 3 1.53 55,775,572

- **Graph 2:** Peak rt Area 1 0.30 1,965  
  - 2 0.32 3,313  
  - 3 1.49 54,346,862  
  - 4 2.40 37,764  
  - 5 2.91 230

- **Graph 3:** Peak rt Area 1 0.28 873  
  - 2 0.30 554  
  - 3 1.57 3,337,247

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Page 14 of 22 (Peak Report)
### Peak Report

**Batch Number:** B121582  
**Method Number:** CVAFS BR-0006

**Project Number(s):** 1200682  
**Date Analyzed:** 9/4/12  
**Instrument ID:** THG-05  
**Analyst Name:** MLH

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**Time:** 3:05 PM

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**Batch Number:** B121582  
**Method Number:** CVAFS BR-0006

**Project Number(s):** 1200682  
**Date Analyzed:** 9/4/12  
**Instrument ID:** THG-05  
**Analyst Name:** MLH

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### Peak Report

**Batch Number:** B121582  
**Method Number:** CVAFS BR-0006  
**Date Analyzed:** 9/4/12  
**Instrument ID:** THG-05  
**Analyst Name:** MLH

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**Peak rt Area**

**Date:** 9/4/12  
**Time:** 3:25 PM

- **Peak**  | **rt** | **Area**
  - 1 | 0.25  | 1,824
  - 2 | 0.32  | 1,802
  - 3 | 1.60  | 356,442

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**Peak rt Area**

**Date:** 9/4/12  
**Time:** 3:30 PM

- **Peak**  | **rt** | **Area**
  - 1 | 0.28  | 491
  - 2 | 0.33  | 274
  - 3 | 1.57  | 5,045,491

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**Peak rt Area**

**Date:** 9/4/12  
**Time:** 3:35 PM

- **Peak**  | **rt** | **Area**
  - 1 | 0.30  | 808
  - 2 | 0.37  | 125
  - 3 | 1.52  | 53,619,424

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**Notes**

Page 17 of 22 (Peak Report)
**Peak Report**

Batch Number: B121582  
Method Number: CVAFS BR-0006

Project Number(s): 1200682  
Date Analyzed: 9/4/12

Instrument ID: THG-05  
Analyst Name: MLH

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### Peak Report

**Batch Number:** B121582  
**Method Number:** CVAFS BR-0006  
**Project Number(s):** 1200682  
**Date Analyzed:** 9/4/12  
**Instrument ID:** THG-05  
**Analyst Name:** MLH

#### Run Trap Type Name/ID M B Peak Peak Area Analyzed Result Final Result QA Results Criteria Notes

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### Graphs

1. **Graph 1:**
   - Peak rt: 0.34
   - Area: 2,538

2. **Graph 2:**
   - Peak rt: 0.28
   - Area: 1,040

3. **Graph 3:**
   - Peak rt: 0.29
   - Area: 2,071

4. **Graph 4:**
   - Peak rt: 0.52
   - Area: 12

5. **Graph 5:**
   - Peak rt: 1.51
   - Area: 3,625,027

### Additional Information

- **Date:** 9/4/12  
- **Time:**
  - Graph 1: 4:09 PM
  - Graph 2: 4:13 PM
  - Graph 3: 4:18 PM
  - Graph 4: 4:17 PM
  - Graph 5: 4:09 PM
## Peak Report

**Batch Number:** B121582  
**Method Number:** CVAFS BR-0006  
**Project Number(s):** 1200682  
**Date Analyzed:** 9/4/12  
**Instrument ID:** THG-05  
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### Graph 1

- **Date:** 9/4/12  
- **Time:** 4:24 PM  
- **Peak rt Area**:  
  - 1: 0.25, 577  
  - 2: 0.37, 18  
  - 3: 1.57, 4,676,448

### Run Details

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### Graph 2

- **Date:** 9/4/12  
- **Time:** 4:29 PM  
- **Peak rt Area**:  
  - 1: 0.28, 730  
  - 2: 0.41, 242  
  - 3: 1.59, 1,249,134

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- **Date:** 9/4/12  
- **Time:** 4:37 PM  
- **Peak rt Area**:  
  - 1: 0.30, 1,174  
  - 2: 0.52, 183  
  - 3: 1.51, 41,925,970

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**Method Number:** CVAFS BR-0006  
**Project Number(s):** 1200682  
**Date Analyzed:** 9/4/12  
**Instrument ID:** THG-05  
**Analyst Name:** MLH

### Run Trap Type Name/ID M B Peak Peak Area Analyzed Result Final Result QA Results Criteria Notes

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- **Date:** 9/4/12  
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- **Peak rt Area**  
  - 1: 0.24 337  
  - 2: 0.26 71  
  - 3: 1.50 4,409,685  
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**Brooks Rand Labs**

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Trace Metals Method BR-0066 Revised (ICP-MS)
Sea Water Sample Preparation by Reductive Co-Precipitation

Batch #s: B121544 1483
Balance ID: B1-03
Filtration Date: 01/29/12
Filtered By: CCE

Preparation Date and Time: 01/27/12 1455
Date and Time of Finished Preparation: 01/27/12 1750
Prepared By: CCE

* Time is when the first reagents are added.

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† Sample vol. recorded in LIMS with three significant figures.

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<th>Spike ID</th>
<th>Vol. Added (mL)</th>
<th>Analyte/Concentration</th>
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Bottle lot: 12-210
SRM-Matrix-ID: SRM1-SLEW-3-122004
HNO3 ID: 1220056
NaBH4 ID: 1231008
NH4OH ID: 121019
Filter Lot #: 193960
H2O2 ID: 1107099
Fe/Pd/La/Te ID: 1212066
Final Dilution Vol.: 10 mL

Target Digestion Temp/Time: 120 °C for 5 minutes x 2 then 150 °C for 15-20 minutes
Digestion Temperature/Times: 120 °C for 5 minutes then 150 °C for 15-20 minutes
Thermometer ID: 010396

* Both measured and corrected temperatures must be recorded.

Comments: Δ: Sample spiked w/0.1 mL Se 0.1 ppm prior to addition of reagents. 0.090mll/L Se ppm.
Δ: Sample spiked with 0.1 mL Se 0.1 ppm prior to addition of reagents. 0.090 mll/L Se ppm.

NOTE: All samples have been adjusted to a pH of 9 prior to filtration as described in BRL SOP BR-0066 and verified by pH paper.

Any sample requiring more or less adjustment than described in the SOP has been noted with a full description of how it differed from the other samples.
Samples spiked: BS1, MS/MSD1-2, MS3

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Samples spiked: BS1, MS1-2

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*Se underspiked w/0.1 mL Se 0.1 ppm (#1235005) prior to addition of reagents. Samples spiked w/additional 0.090 mL Se ppm (#1235006) ~1hr following addition of final reagent (NaBH₄ sln). Fake spike # 1235007.
### Calibration

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## Sample ID: SEQ-ICB1

### Sample Description:

- **Sample Date/Time:** Friday, September 14, 2012 13:41:35
- **Diluted To Volume (mL):**
- **Aliquot Volume (mL):**
- **Autosampler Position:** 1

### Sample File:

- C:\Elandata\Sample\2012\09-12\1200711.sam

### Method File:

- C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

### Dataset File:

- C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

### Calibration File:

- C:\Elandata\System\2012\09-12\1200711.cal

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- C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

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Sample Description:  
Batch ID:

Sample Date/Time: Friday, September 14, 2012 13:57:14  
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 5

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**Int Std % Recovery**

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- In: 3076206, 33524, 1.0, 3076205.581684 ug/L
- Sn: 130770, 1293, 1.0, 0.037047 ug/L
- Sb: 29219, 2953, 10.1, 0.009423 ug/L
- Cs: 332468, 464, 0.1, 0.108081 ug/L
- Ba: 3037235, 31345, 1.0, 0.987439 ug/L
- Ce: 151593, 654, 0.4, 0.049273 ug/L
- Tm: 2712483.779923 ug/L
- Tl: 44621, 1292, 2.9, 0.016446 ug/L
- Pb: 242808, 2845, 1.2, 0.089479 ug/L
- Bi: 2471433, 35752, 1.4, 0.911219 ug/L
- Th: 37552, 6422, 17.1, 0.013787 ug/L
- U: 52384, 1011, 1.9, 0.019306 ug/L

**Int Std % Recovery**

- In: 115, 3160654, 3076206, 33524, 1.0, 3076205.581684 ug/L
- Sn: 120, 17270, 130770, 1293, 1.0, 0.037047 ug/L
- Sb: 121, 224, 29219, 2953, 10.1, 0.009423 ug/L
- Cs: 133, 20, 332468, 464, 0.1, 0.108081 ug/L
- Ba: 138, 86, 3037235, 31345, 1.0, 0.987439 ug/L
- Ce: 140, 36, 151593, 654, 0.4, 0.049273 ug/L
- Tm: 169, 2730830, 2712484, 32468, 1.2, 2712483.779923 ug/L
- Tl: 205, 25, 44621, 1292, 2.9, 0.016446 ug/L
- Pb: 208, 143, 242808, 2845, 1.2, 0.089479 ug/L
- Bi: 209, 261, 2471433, 35752, 1.4, 0.911219 ug/L
- Th: 232, 199, 37552, 6422, 17.1, 0.013787 ug/L
- U: 238, 16, 52384, 1011, 1.9, 0.019306 ug/L
- Li: 7
- Be: 9
- B: 11
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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Sample Description:
Batch ID:

Sample Date/Time: Friday, September 14, 2012 14:12:52
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 9

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Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-CAL8.048
Calibration File: C:\Elandata\System\2012\09-12\1200711.cal
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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**Sample Description:**

**Batch ID:**

Sample Date/Time: Friday, September 14, 2012 14:23:07
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 10

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Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICV1.050
Calibration File: C:\Elandata\System\2012\09-12\1200711.cal
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**Sb** 121 224 12089 1172 9.7 0.003781 1.7535 ug/L

**Cs** 133 20 89606 1509 1.7 0.028493 2.6084 ug/L

**Ba** 138 86 66101 1385 2.1 0.020996 2.6132 ug/L

**Ce** 140 36 45 4 9.7 0.000003 0.0005 ug/L

**Tm** 169 2730830 2786996 88268 3.2 2786995.798540 0.0005 ug/L

**Ti** 205 25 5100 122 2.4 0.001823 0.2765 ug/L

**Pb** 208 143 65140 205 0.3 0.023335 2.6441 ug/L

**Bi** 209 261 54269 183 0.3 0.019391 2.7623 ug/L

**Th** 232 199 12193 939 7.7 0.004298 0.8514 ug/L

**U** 238 16 13810 76 0.6 0.004952 0.5219 ug/L
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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Sample Description:
Batch ID:

Sample Date/Time: Friday, September 14, 2012 14:27:03
Diluted To Volume (mL):
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Calibration File: C:\Elandata\System\2012\09-12\1200711.cal
Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

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Int Std % Recovery

Analyte | Mass | Int Std % Recovery |
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Be       | 9    |                   |
B        | 11   |                   |
Na       | 23   |                   |
Mg       | 24   |                   |
Al       | 27   |                   |
K        | 39   |                   |
Ca       | 44   |                   |
Sc       | 45   | 97.198            |
Ti       | 47   |                   |
Ti       | 48   |                   |
V        | 51   |                   |
Cr       | 52   |                   |
Cr       | 53   |                   |
Mn       | 55   |                   |
Fe       | 54   |                   |
Fe       | 57   |                   |
Co       | 59   |                   |
Ni       | 60   |                   |
Ni       | 62   |                   |
Cu       | 65   |                   |
Cu       | 63   |                   |
Zn       | 66   |                   |
Zn       | 68   |                   |
Ge       | 74   | 96.845            |
As       | 75   |                   |
As-1     | 75   |                   |
Se       | 77   |                   |
Se       | 82   |                   |
Sr       | 88   |                   |
Y        | 89   |                   |
Mo       | 98   |                   |
Ag       | 107  |                   |
Ag       | 109  |                   |
Cd       | 111  |                   |
Cd       | 114  |                   |
In       | 115  | 98.501            |
Sn       | 120  |                   |
Sb       | 121  |                   |
Cs       | 133  |                   |
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**Sample ID:** SEQ-ICV1

**Report Date/Time:** Monday, September 17, 2012 12:05:20

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**BRL Report 1233038**

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**Sample Description:**

Sample Date/Time: Friday, September 14, 2012 14:48:46  
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Optimization Summary

SmartTune file: C:\Elandata\Wizard\SmartTune\1-SmartTune Full 4rpm.swz

Start Time: 9/17/2012 11:57:32 AM
End Time: 9/17/2012 12:00:50 PM

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
    Target/Obtained mass (9.0122/9.025), Target/Obtained resolution (0.7/0.714)
    Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.678)
    Target/Obtained mass (75.93/75.975), Target/Obtained resolution (0.7/0.680)
    Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.686)
    Target/Obtained mass (139.905/139.925), Target/Obtained resolution (0.7/0.683)
    Target/Obtained mass (207.977/208.025), Target/Obtained resolution (0.7/0.685)
Optimization Details

SmartTune file: C:\Elandata\Wizard\SmartTune\1-SmartTune Full 4rpm.swz

Optimization Status

Start Time: 9/17/2012 11:57:32 AM

Mass Calibration and Resolution

Optimization Settings:
- Method: C:\Elandata\Method\1-tuning.mth.
- Tuning File: Default.tun
- Iterations: 6
- Target accuracy (+/- amu): 0.1 for Mass Cal. and 0.05 for Resolution
- Peak height (%) for Res. Opt.: 10

Optimization Results:

Initial Try
- Target/Obtained mass (9.0122/9.025), Target/Obtained resolution (0.7/0.714)
- Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.678)
- Target/Obtained mass (75.93/75.975), Target/Obtained resolution (0.7/0.680)
- Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.686)
- Target/Obtained mass (139.905/139.925), Target/Obtained resolution (0.7/0.683)
- Target/Obtained mass (207.977/208.025), Target/Obtained resolution (0.7/0.685)

[Passed] Optimum value(s): N/A

End Time: 9/17/2012 12:00:50 PM
Sample ID: rinse
Sample Description:
Batch ID:

Sample Date/Time: Friday, September 14, 2012 15:51:05
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 434

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**Sb** 121 224 616 332 53.9 0.000117 0.3372 ug/L

**Cs** 133 20 18 4 19.2 -0.000001 -0.0015 ug/L

**Ba** 138 86 127 5 4.0 0.000011 0.0001 ug/L

**Ce** 140 36 44 5 10.3 0.000002 0.0004 ug/L

**Tm** 169 2730830 2896820 67036 2.3 2896819.824382 ug/L

**Tl** 205 25 25 5 18.7 -0.000001 -0.0014 ug/L

**Pb** 208 143 152 9 5.9 0.000000 -0.0013 ug/L

**Bi** 209 261 621 345 55.6 0.000119 0.191 ug/L

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# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID:** 1ppb Sb1  
**Sample Description:**  
**Batch ID:**  

Sample Date/Time: Friday, September 14, 2012 15:58:53  
Diluted To Volume (mL):  
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1ppb Sb2
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Sample Date/Time: Friday, September 14, 2012 16:02:47
Diluted To Volume (mL):
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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Aliquot Volume (mL):
Autosampler Position: 101

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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Sample Date/Time: Friday, September 14, 2012 17:23:50

Diluted To Volume (mL): 

Aliquot Volume (mL): 

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Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth
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Calibration File: C:\Elandata\System\2012\09-12\1200711.cal
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Sb: 121 224 68 13 19.2 -0.000049 0.2729 ug/L
Cs: 133 20 13 1 9.1 -0.000002 -0.0016 ug/L
Ba: 138 86 141 3 2.3 0.000018 0.0009 ug/L
Ce: 140 36 31 9 29.6 -0.000001 0.0001 ug/L
Tm: 169 2730830 2712692 31146 1.1 2712692.132300 ug/L
Pd: 208 143 150 16 10.8 0.000003 -0.0010 ug/L
Bi: 209 261 46 12 25.9 -0.000079 -0.0090 ug/L
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BRL Report 1233038

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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The table shows the results of a sample analysis with the following elements: In, Sn, Sb, Cs, Ba, Ce, Tm, Tl, Pb, Bi, Th, U. The values are given in ug/L along with their respective % recoveries.

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**Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report**

**Sample ID:** 12-235DIW  
**Sample Description:**

**Sample Date/Time:** Friday, September 14, 2012 18:14:35  
**Diluted To Volume (mL):**  
**Aliquot Volume (mL):**  
**Autosampler Position:** 122

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**Method File:** C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth  
**Dataset File:** C:\Elandata\DataSet\2012\09-12\1200711\12-235DIW.092  
**Calibration File:** C:\Elandata\System\2012\09-12\1200711.cal  
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Int Std % Recovery Table:

- **Analyte**
- **Mass**
- **Int Std % Recovery**

The table lists various elements along with their masses and percentage recovery values.
## Concentration Results

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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Batch ID:

Sample Date/Time: Friday, September 14, 2012 19:05:17
Diluted To Volume (mL):
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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Sample Description:
Batch ID: B121724

Sample Date/Time: Friday, September 14, 2012 19:40:56
Diluted To Volume (mL): 
Aliquot Volume (mL): 
Autosampler Position: 139

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**Batch ID:** B121724

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## Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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**Batch ID:** B121724  

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Autosampler Position: 146

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**Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report**

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**Sample Description:**  
**Batch ID:** B121703  
**Sample Date/Time:** Friday, September 14, 2012 20:02:18  
**Diluted To Volume (mL):**  
**Aliquot Volume (mL):**  
**Autosampler Position:** 148

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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Sample Description:
Batch ID: B121703

Sample Date/Time: Friday, September 14, 2012 20:06:11
Diluted To Volume (mL):
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Sample Description:
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Sample Date/Time: Friday, September 14, 2012 20:08:07
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Autosampler Position: 151

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# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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**Sample Description:** 5x  
**Batch ID:** B121703

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BRL Report 1233038

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### Int Std % Recovery

- Li: 7%
- Be: 9%
- B: 11%
- Na: 23%
- Mg: 24%
- Al: 27%
- K: 39%
- Ca: 44%
- Sc: 45, 105.257%
- Ti: 47, 48%
- V: 51%
- Cr: 52, 53%
- Mn: 55%
- Fe: 54, 57%
- Co: 59%
- Ni: 60, 62%
- Cu: 65, 63%
- Zn: 66, 68%
- Ge: 74, 105.055%
- As: 75%
- As-1: 75%
- Se: 77, 82%
- Sr: 88%
- Y: 89%
- Mo: 98%
- Ag: 107, 109%
- Cd: 111, 114%
- In: 115, 103.875%
- Sn: 120, 124%
- Sb: 121, 224%
- Cs: 133, 20%
- Ba: 138, 86%
- Ce: 140, 36%
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Batch ID: B121703

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Ba: 138 86 1856491 75365 4.1 0.557781 69.4575 ug/L
Ce: 140 36 1499 358 23.9 0.000439 0.0440 ug/L
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**Int Std % Recovery**

**Analyte** | **Mass** | **Int Std % Recovery**
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**In** 115 | 3160654 | 3282866 | 60033 | 1.8 | 3282866.292366 ug/L
**Sn** 120 | 17270 | 46508 | 181 | 0.4 | 0.008706 | 2.3484 ug/L
**Sb** 121 | 224 | | | | | ug/L
**Cs** 133 | 20 | | | | | ug/L
**Ba** 138 | 86 | 64091 | 761 | 1.2 | 0.019501 | 2.4270 ug/L
**Ce** 140 | 36 | 16554 | 297 | 1.8 | 0.005031 | 0.5021 ug/L
**Tm** 169 | 2730830 | ug/L
**TI** 205 | 25 | ug/L
**Pb** 208 | 143 | ug/L
**Bi** 209 | 261 | ug/L
**Th** 232 | 199 | ug/L
**U** 238 | 16 | ug/L

Sample ID: SEQ-CCV6
Report Date/Time: Monday, September 17, 2012 12:07:47
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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Sample Description: 10x
Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 20:41:13
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### Analytes

- **In**: 115 ug/L, 3308347 ug/L, 3308347.201186 ug/L
- **Sn**: 120 ug/L, 17270 ug/L, 617 ug/L
- **Sb**: 121 ug/L, 224 ug/L
- **Cs**: 133 ug/L, 20 ug/L
- **Ba**: 138 ug/L, 86 ug/L, 2143 ug/L, 77 ug/L, 0.000620 ug/L
- **Ce**: 140 ug/L, 36 ug/L, 72 ug/L, 6 ug/L, 0.000011 ug/L
- **Tm**: 169 ug/L, 2730830 ug/L
- **Ti**: 205 ug/L, 25 ug/L
- **Pb**: 208 ug/L, 143 ug/L
- **Bi**: 209 ug/L, 261 ug/L
- **Th**: 232 ug/L, 199 ug/L
- **U**: 238 ug/L, 16 ug/L

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Batch ID: B121546

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Aliquot Volume (mL): 0.5  
Autosampler Position: 213

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Sn | 120 | 17270
Sb | 121 | 224
Cs | 133 | 20
Ba | 138 | 86
Ce | 140 | 36
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Pb | 208 | 143
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BRL Report 1233038

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Report Date/Time: Monday, September 17, 2012 12:08:16
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### Sample Description: 10x
### Batch ID: B121546

- **Sample Date/Time:** Friday, September 14, 2012 21:14:07
- **Diluted To Volume (mL):** 5.00
- **Aliquot Volume (mL):** 0.5
- **Autosampler Position:** 214

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- C:\Elandata\Sample\2012\09-12\1200711.sam

### Method File:
- C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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Batch ID: B121546

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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Batch ID:

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**Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report**

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**Sample Description:** 10x  
**Batch ID:** B121546

**Sample Date/Time:** Friday, September 14, 2012 21:31:34  
**Diluted To Volume (mL):** 5.00  
**Aliquot Volume (mL):** 0.5  
**Autosampler Position:** 221

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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Batch ID: B121546

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Aliquot Volume (mL): 0.5
Autosampler Position: 225

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**Analyte**: Elemental species measured in the sample.

**Mass**: Mass of the element.

**Int Std % Recovery**: Percentage of the internal standard recovery, which is a measure of the accuracy of the measurement.
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Int Std % Recovery

Analyte Mass Int Std % Recovery

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| Sb   | 121 | 224     |        |        |      | -0.000115     | 3.4395 ug/L |
| Cs   | 133 | 20      |        |        |      | -1.3500       | 0.1965 ug/L |
| Ba   | 138 | 86      | 10010  | 1853   | 18.5 | 0.002773      | 0.1965 ug/L |
| Ce   | 140 | 36      | 737    | 112    | 15.1 | 0.000195      | 3.4395 ug/L |
| Tm   | 169 | 2730830 |        |        |      |               | 0.1965 ug/L |
| Ti   | 205 | 25      |        |        |      |               | 0.1965 ug/L |
| Pb   | 208 | 143     |        |        |      |               | 0.1965 ug/L |
| Bi   | 209 | 261     |        |        |      |               | 0.1965 ug/L |
| Th   | 232 | 199     |        |        |      |               | 0.1965 ug/L |
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1234009-34
Sample Description: 10x
Batch ID: B121546

Sample Date/Time: Friday, September 14, 2012 21:58:39
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.5
Autosampler Position: 233

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Method File: C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth
Dataset File: C:\Elandata\DataSet\2012\09-12\1200711\1234009-34.184
Calibration File: C:\Elandata\System\2012\09-12\1200711.cal
Blank File: C:\Elandata\DataSet\2012\09-12\1200711\SEQ-ICB1.040

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**Sample Description:** 10x  
**Batch ID:** B121546  

Sample Date/Time: Friday, September 14, 2012 22:06:20  
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report
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**Sample ID:** 0944029-92  
**Sample Description:** 5x  
**Batch ID:** B121544

Sample Date/Time: Friday, September 14, 2012 22:19:58  
Diluted To Volume (mL): 5.00  
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Autosampler Position: 242

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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Sample Description: 5x
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Sample Date/Time: Friday, September 14, 2012 22:23:49
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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Sample Description: 5x
Batch ID: B121544

Sample Date/Time: Friday, September 14, 2012 22:35:29
Diluted To Volume (mL): 5.00
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BRL Report 1233038

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B | 11 | |
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Mg | 24 | |
Al | 27 | |
K | 39 | |
Ca | 44 | |
Sc | 45 | 100.043 |
Ti | 47 | |
Ti | 48 | |
V | 51 | |
Cr | 52 | |
Cr | 53 | |
Mn | 55 | |
Fe | 54 | |
Fe | 57 | |
Co | 59 | |
Ni | 60 | |
Ni | 62 | |
Cu | 65 | |
Cu | 63 | |
Zn | 66 | |
Zn | 68 | |
Ge | 74 | 99.741 |
As | 75 | |
As-1 | 75 | |
Se | 77 | |
Se | 82 | |
Sr | 88 | |
Y | 89 | |
Mo | 98 | |
Ag | 107 | |
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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Sample Description: 50x
Batch ID: B121547

Sample Date/Time: Friday, September 14, 2012 23:02:35
Diluted To Volume (mL): 5.00
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Int Std % Recovery

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Be | 9 | 0.00000
B | 11 | 0.00000
Na | 23 | 0.00000
Mg | 24 | 0.00000
Al | 27 | 0.00000
K | 39 | 0.00000
Ca | 44 | 0.00000
Sc | 45 | 150.892
Ti | 47 | 0.00000
Ti | 48 | 0.00000
V | 51 | 0.00000
Cr | 52 | 0.00000
Cr | 53 | 0.00000
Mn | 55 | 0.00000
Fe | 54 | 0.00000
Fe | 57 | 0.00000
Co | 59 | 0.00000
Ni | 60 | 0.00000
Ni | 62 | 0.00000
Cu | 65 | 0.00000
Cu | 63 | 0.00000
Zn | 66 | 0.00000
Zn | 68 | 0.00000
Ge | 74 | 146.007
As | 75 | 0.00000
As-1 | 75 | 0.00000
Se | 77 | 0.00000
Se | 82 | 0.00000
Sr | 88 | 0.00000
Y | 89 | 0.00000
Mo | 98 | 0.00000
Ag | 107 | 0.00000
Ag | 109 | 0.00000
Cd | 111 | 0.00000
Cd | 114 | 0.00000
In | 115 | 157.135
Sn | 120 | 0.00000
Sb | 121 | 0.00000
Cs | 133 | 0.00000
Ba | 138 | 0.00000
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Int Std % Recovery

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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Sample Description: 50x
Batch ID: B121547

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Aliquot Volume (mL): 0.1
Autosampler Position: 313

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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BRL Report 1233038

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Autosampler Position: 325

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Cs 133 20
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Mg | 24 | |
Al | 27 | |
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Sc | 45 | 175.867 |
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Ti | 48 | |
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**Sample ID:** 1232005-26  
**Sample Description:** 200x  
**Batch ID:** B121541  

**Sample Date/Time:** Saturday, September 15, 2012 01:12:42  
**Diluted To Volume (mL):** 5.00  
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**Autosampler Position:** 349

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- **Method File:** C:\Elandata\Method\2012\09-12\1200711-0060-ICPMS1-MEL.mth  
- **Dataset File:** C:\Elandata\DataSet\2012\09-12\1200711\1232005-26.284  
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**Int Std % Recovery**

**Analyte** | **Mass** | **Int Std % Recovery**
--- | --- | ---
In | 115 | 119.168
Sn | 120 | 70.3011 ug/L
Sb | 121 | 7.2417 ug/L
Cs | 133 | 0.0303 ug/L
Ba | 138 | 0.001613 ug/L
Ce | 140 | -0.000001 ug/L

---

**Int Std % Recovery**

**Analyte** | **Mass** | **Int Std % Recovery**
--- | --- | ---
Li | 7 | 70.3011 ug/L
Be | 9 | 7.2417 ug/L
B | 11 | 0.0303 ug/L
Na | 23 | 0.001613 ug/L
Mg | 24 | -0.000001 ug/L
Al | 27 | 7.2417 ug/L
K | 39 | 0.0303 ug/L
Ca | 44 | 0.001613 ug/L
Sc | 45 | 7.2417 ug/L
Ti | 47 | 0.0303 ug/L
V | 51 | 7.2417 ug/L
Cr | 52 | 0.0303 ug/L
Mn | 55 | 7.2417 ug/L
Fe | 54 | 0.0303 ug/L
Fe | 57 | 7.2417 ug/L
Co | 59 | 0.0303 ug/L
Ni | 60 | 7.2417 ug/L
Ni | 62 | 0.0303 ug/L
Cu | 65 | 7.2417 ug/L
Cu | 63 | 0.0303 ug/L
Cu | 63 | 7.2417 ug/L
Zn | 68 | 0.0303 ug/L
Zn | 68 | 7.2417 ug/L
Ge | 74 | 114.393 ug/L
As | 75 | 114.393 ug/L
As-1 | 75 | 114.393 ug/L
Se | 77 | 114.393 ug/L
Se | 82 | 114.393 ug/L
Sr | 88 | 114.393 ug/L
Y | 89 | 114.393 ug/L
Mo | 98 | 114.393 ug/L
Ag | 107 | 114.393 ug/L
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Cd | 114 | 114.393 ug/L
In | 115 | 119.168 ug/L
Sn | 120 | 70.3011 ug/L
Sb | 121 | 7.2417 ug/L
Cs | 133 | 0.0303 ug/L
Ba | 138 | 0.001613 ug/L
Ce | 140 | -0.000001 ug/L
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1232005-31
Sample Description: 200x
Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:22:24
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.025
Autosampler Position: 354

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Sn 120 17270 22352 605 2.7 0.000151 -11.9783 ug/L
Sb 121 224 ug/L
Cs 133 20 ug/L
Ba 138 86 75253 2303 3.1 0.018891 470.2198 ug/L
Ce 140 36 38 12 31.6 -0.000002 0.0138 ug/L
Tm 169 2730830 ug/L
Th 232 199 ug/L
U 238 16 ug/L

Int Std % Recovery

Analyte Mass Int Std % Recovery
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Be 9
B 11
Na 23
Mg 24
Al 27
K 39
Ca 44
Sc 45 127.861
Ti 47
Ti 48
V 51
Cr 52
Cr 53
Mn 55
Fe 54
Fe 57
Co 59
Ni 60
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Cu 65
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Zn 66
Zn 68
Ge 74 120.108
As 75
As-1 75
Se 77
Se 82
Sr 88
Y 89
Mo 98
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Cd 114
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Cs 133
Ba 138
Ce 140
Sample ID: B121541-MSD4
Sample Description: 200x
Batch ID: B121541

Sample Date/Time: Saturday, September 15, 2012 01:39:54
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.025
Autosampler Position: 419

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

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Batch ID:

Sample Date/Time: Saturday, September 15, 2012 01:57:25
Diluted To Volume (mL):
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**Sample Description:**

- **Sample Date/Time:** Saturday, September 15, 2012 01:59:21
- **Diluted To Volume (mL):**
- **Aliquot Volume (mL):**
- **Autosampler Position:** 434

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434 rinse
434 rinse
434 rinse
434 rinse
434 rinse
Trace Metals Method BR-0067 Rev A2 (ICP-MS)
Solid Sample Preparation by Oven Bomb Digestion
Digestion by: Reverse Aqua Regia

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<th>Preparation Date and Time: 02-08-13 08/12</th>
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<td>Date and Time of Finished Preparation: 08/15 8/31/12</td>
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NOTE: The % Sample Loss must be calculated for each bomb before passing the sample preparations on for analysis.
Warning Limit is 5.0% sample loss / Control Limit is 10.0% sample loss.

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<th>Analyte/Concentration</th>
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<td>Nd 1000 ppm</td>
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Reagents Added (ID/Amount Added):

- 4 mL HCl (1051060)
- 12 mL HNO3 (1229017)

Balance ID: BL-03, BL-02; Oven ID: 0V-05

Comments: BL-01 used to weigh post oven mass.

Spike Witnessed by Initiates/Date: 08/15/12

Reagents Added (ID/Amount Added):

1) 4 mL HCl (1051060)
2) 12 mL HNO3 (1229017)
3) Final Dilution Volume: 50 mL

* Both measured and corrected temperatures must be recorded.
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<td><strong>Solid Sample Preparation by Oven Bomb Digestion</strong></td>
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**Preparation Date and Time**: 1200 8/30/12

**Date and Time of Finished Preparation**: 09/4 8/31/12

### Preparation Data

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**NOTE**: The % Sample Loss must be calculated for each bomb before passing the sample preparations on for analysis.

Warning Limit is 5.0% sample loss / Control Limit is 10.0% sample loss.

**Comments**: *spike added following addition of reagent. + Final vol. = 35mL*
Trace Metals Method BR-0067 Rev.002 (ICP-MS)
Solid Sample Preparation by Oven Bomb Digestion

Digestion by: Reverse Aqua Regia

Preparation Date and Time: 1200 8/30/12
Date and Time of Finished Preparation: 0845 8/31/12

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NOTE: The % Sample Loss must be calculated for each bomb before passing the sample preparations on for analysis.
Warning Limit is 5.0% sample loss / Control Limit is 10.0% sample loss.

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B121472, 1473, 1539
RAR

Samples spiked: B121473/1539 BS1, B121473 MS/MSD1, B121539 MS/MSD1-3

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Add 5.75mL 2% HNO3

Samples spiked: B121472 BS1, MS/MSD1-2

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* Standard expired on 12/1/2012.

0.025mL
Sample Information

Report Title: QUANTITATIVE ANALYSIS REPORT
Batch ID:
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CAL4.069
Tuning File: C:\Elandata\Tuning\Default.tun
Optimization File: C:\Elandata\Optimize\Default.dac
Blank File:
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Calibration Type: External Calibration

## Calibration

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**Sample ID:** SEQ-ICB1  
**Sample Description:**

**Batch ID:**

Sample Date/Time: Wednesday, September 19, 2012 14:45:38  
Diluted To Volume (mL):  
Aliquot Volume (mL):  
Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
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Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065  
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal  
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Sample ID: SEQ-CAL1  
Sample Description: 
Batch ID: 

Sample Date/Time: Wednesday, September 19, 2012 14:47:07 
Diluted To Volume (mL): 
Aliquot Volume (mL): 
Autosampler Position: 2  

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
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Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CAL1.066  
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal  
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065  

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Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 14:50:04
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Aliquot Volume (mL):
Autosampler Position: 4

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Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Sample Description:
Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 14:53:01
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 6

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**Sample Description:**

**Batch ID:**

Sample Date/Time: Wednesday, September 19, 2012 14:54:29  
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### Sample ID: SEQ-CAL8

**Sample Description:**

- **Batch ID:**

Sample Date/Time: Wednesday, September 19, 2012 14:57:26
- Diluted To Volume (mL):
- Aliquot Volume (mL):
- Autosampler Position: 9

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CAL8.073
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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**Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report**

**Sample ID:** SEQ-ICB2  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Wednesday, September 19, 2012 14:58:55  
Diluted To Volume (mL):  
Aliquot Volume (mL):  
Autosampler Position: 1  

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Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth  
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Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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### Int Std % Recovery

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Sample Description:
Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:05:58
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 102

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-IBL2.078
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

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Sample ID: SEQ-IBL3

Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:07:27
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 103

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-IBL3.079
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:08:55
Diluted To Volume (mL):
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Autosampler Position: 104

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Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-IBL4.080
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Int Std % Recovery

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Sample Description:
Batch ID:
Sample Date/Time: Wednesday, September 19, 2012 15:12:59
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCV1.082
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB1
Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:14:29
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 1

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Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
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Int Std % Recovery

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121711-BLK1
Sample Description:
Batch ID: B121711

Sample Date/Time: Wednesday, September 19, 2012 15:16:22
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 106

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121711-BLK1.084
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

Concentration Results

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Int Std % Recovery

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Sample ID: B121711-BLK2
Sample Description:
Batch ID: B121711

Sample Date/Time: Wednesday, September 19, 2012 15:17:50
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 107

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121711-BLK2.085
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

### Concentration Results

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Sample ID: B121711-BLK3
Sample Description:
Batch ID: B121711

Sample Date/Time: Wednesday, September 19, 2012 15:19:19
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 108

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121711-BLK3.086
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
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Int Std % Recovery

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**Sample ID:** B121711-BLK4

**Sample Description:**

Batch ID: B121711

Sample Date/Time: Wednesday, September 19, 2012 15:20:47

Diluted To Volume (mL):

Aliquot Volume (mL):

Autosampler Position: 109

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam

Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth

Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121711-BLK4.087

Calibration File: C:\Elandata\System\2012\9-12\1200726.cal

Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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**Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report**

**Sample ID:** B121711-BS1  
**Sample Description:**  
**Batch ID:** B121711

Sample Date/Time: Wednesday, September 19, 2012 15:22:16  
Diluted To Volume (mL):  
Aliquot Volume (mL):  
Autosampler Position: 110

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth  
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121711-BS1.088  
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal  
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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### Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID:** 1237023-01  
**Sample Description:**  
**Batch ID:** B121711

**Sample Date/Time:** Wednesday, September 19, 2012 15:23:44  
**Diluted To Volume (mL):**  
**Aliquot Volume (mL):**  
**Autosampler Position:** 111

**Sample File:** C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
**Method File:** C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth  
**Dataset File:** C:\Elandata\DataSet\Data\2012\9-12\1200726\1237023-01.089  
**Calibration File:** C:\Elandata\System\2012\9-12\1200726.cal  
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936 of 1090
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## Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID:** B121711-MS1  
**Sample Description:**  
**Batch ID:** B121711  

Sample Date/Time: Wednesday, September 19, 2012 15:31:09  
Diluted To Volume (mL):  
Aliquot Volume (mL):  
Autosampler Position: 113  

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth  
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121711-MS1.091  
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal  
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Sample Description:
Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:35:36
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Aliquot Volume (mL):
Autosampler Position: 1

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV3
Sample Description:
Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:38:04
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 5

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Int Std % Recovery

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Sample Description:
Batch ID:
Sample Date/Time: Wednesday, September 19, 2012 15:39:33
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCB3.096
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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**Sample Description:**  
**Batch ID:** B121711  

Sample Date/Time: Wednesday, September 19, 2012 15:41:09  
Diluted To Volume (mL):  
Aliquot Volume (mL):  
Autosampler Position: 115

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TM\mth  
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1237023-02.097  
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1237023-05
Sample Description:
Batch ID: B121711

Sample Date/Time: Wednesday, September 19, 2012 15:42:37
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 116

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1237023-05.098
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Int Std % Recovery

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### Sample ID: 1237023-06

**Sample Description:**

- **Batch ID:** B121711
- **Sample Date/Time:** Wednesday, September 19, 2012 15:44:05
- **Diluted To Volume (mL):**
- **Aliquot Volume (mL):**
- **Autosampler Position:** 117

**Sample File:** C:\Elandata\Sample\2012\Tamas\background stability testing.sam
**Method File:** C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
**Dataset File:** C:\Elandata\DataSet\Data\2012\9-12\1200726\1237023-06.099
**Calibration File:** C:\Elandata\System\2012\9-12\1200726.cal
**Blank File:** C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Sample Description:

Sample Date/Time: Wednesday, September 19, 2012 15:45:54
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCV4.100
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 15:47:23
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Aliquot Volume (mL):
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Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Batch ID: B121690  

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Aliquot Volume (mL):  
Autosampler Position: 118  

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Batch ID: B121690

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Aliquot Volume (mL):
Autosampler Position: 121

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Batch ID: B121690

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Aliquot Volume (mL):
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Batch ID: B121690

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Autosampler Position: 123

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-MS1
Sample Description:
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:06:04
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 125

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MS1.109
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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**Sample Description:**
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:09:00
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 127

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Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-03.111
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#### Sample Description:

- **Sample Date/Time:** Wednesday, September 19, 2012 16:10:30
- **Diluted To Volume (mL):**
- **Aliquot Volume (mL):**
- **Autosampler Position:** 5

#### Sample File:
- C:\Elandata\Sample\2012\Tamas\background stability testing.sam

#### Method File:
- C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth

#### Dataset File:
- C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCV5.112

#### Calibration File:
- C:\Elandata\System\2012\9-12\1200726.cal

#### Blank File:
- C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 16:11:59
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Aliquot Volume (mL):
Autosampler Position: 1

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Sample Description: 2x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:37:28
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 2.5
Autosampler Position: 102

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
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Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
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### Concentration Results

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Sample Description: 2x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:38:56
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 2.5
Autosampler Position: 103

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
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**Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report**

**Sample ID:** B121690-MS2  
**Sample Description:** 2x  
**Batch ID:** B121690

Sample Date/Time: Wednesday, September 19, 2012 16:40:24  
Diluted To Volume (mL): 5.00  
Aliquot Volume (mL): 2.5  
Autosampler Position: 104

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-03RE1
Sample Description: 2x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:43:20
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 2.5
Autosampler Position: 106

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Sample ID: 1236003-04
Sample Description: 2x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:44:48
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 2.5
Autosampler Position: 107

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-04.120
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-05
Sample Description: 2x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:46:16
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 2.5
Autosampler Position: 108

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
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Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-06
Sample Description: 2x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:47:44
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 2.5
Autosampler Position: 109

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-06.122
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Int Std % Recovery

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-07
Sample Description: 2x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 16:49:12
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 2.5
Autosampler Position: 110

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
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Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
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Batch ID:
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Sample ID: 1236003-06RE1
Sample Description: 10x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:16:48
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.5
Autosampler Position: 127

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
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Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
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**Sample Description:** 2x  
**Batch ID:** B121690

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Aliquot Volume (mL): 2.5  
Autosampler Position: 128

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Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth  
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-08.128  
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal  
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Batch ID: B121690

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Aliquot Volume (mL): 2.5
Autosampler Position: 130

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Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:27:46
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Aliquot Volume (mL): 2.5
Autosampler Position: 129

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-11
Sample Description: 10x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:29:14
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.5
Autosampler Position: 130

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-11.132
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-MS3
Sample Description: 10x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:40:25
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.5
Autosampler Position: 133

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MS3.137
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
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**Sample ID:** B121690-MSD3  
**Sample Description:** 10x  
**Batch ID:** B121690

**Sample Date/Time:** Wednesday, September 19, 2012 17:41:53  
**Diluted To Volume (mL):** 5.00  
**Aliquot Volume (mL):** 0.5  
**Autosampler Position:** 134

- **Sample File:** C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
- **Method File:** C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth  
- **Dataset File:** C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MSD3.138  
- **Calibration File:** C:\Elandata\System\2012\9-12\1200726.cal  
- **Blank File:** C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Sample Description: 2x  
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:46:17  
Diluted To Volume (mL): 5.00  
Aliquot Volume (mL): 2.5  
Autosampler Position: 137

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth  
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Calibration File: C:\Elandata\System\2012\9-12\1200726.cal  
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236003-16
Sample Description: 2x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 17:47:45
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 2.5
Autosampler Position: 138

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-16.142
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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## Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID:** 1236003-18  
**Sample Description:** 2x  
**Batch ID:** B121690  

Sample Date/Time: Wednesday, September 19, 2012 17:50:41  
Diluted To Volume (mL): 5.00  
Aliquot Volume (mL): 2.5  
Autosampler Position: 140  

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth  
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236003-18.144  
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal  
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Sample Description:
Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 17:52:11
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
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Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCB8
Sample Description:

Sample Date/Time: Wednesday, September 19, 2012 17:53:40
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
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Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236012-01
Sample Description: 2x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:03:40
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 2.5
Autosampler Position: 141

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Sample ID: B121690-MSD4
Sample Description: 2x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:09:33
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 2.5
Autosampler Position: 145

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MSD4.151
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236012-03
Sample Description: 2x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:11:01
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 2.5
Autosampler Position: 146

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236012-03.152
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Sample ID: 1236012-04  
Sample Description: 2x  
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:12:29  
Diluted To Volume (mL): 5.00  
Aliquot Volume (mL): 2.5  
Autosampler Position: 147

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1236012-05  
Sample Description: 2x  
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:13:57  
Diluted To Volume (mL): 5.00  
Aliquot Volume (mL): 2.5  
Autosampler Position: 148

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth  
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236012-05.154  
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal  
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCV9
Sample Description:
Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 18:15:27
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 5

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCV9.155
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Int Std % Recovery

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Sample Description:
Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 18:16:56
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 1

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Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCB9.156
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
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Int Std % Recovery

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**Sample ID:** 1236012-06  
**Sample Description:** 2x  
**Batch ID:** B121690

Sample Date/Time: Wednesday, September 19, 2012 18:18:26  
Diluted To Volume (mL): 5.00  
Aliquot Volume (mL): 2.5  
Autosampler Position: 149

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
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Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236012-06.157  
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal  
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Sample Description: 2x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:19:54
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 2.5
Autosampler Position: 150

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-DUP5.158
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

**Concentration Results**

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Sample ID: B121690-MSD5
Sample Description: 2x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:22:50
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 2.5
Autosampler Position: 152

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MSD5.160
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Int Std % Recovery

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**Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report**

**Sample ID: 1236012-07**  
**Sample Description: 2x**  
**Batch ID: B121690**

Sample Date/Time: Wednesday, September 19, 2012 18:24:18  
Diluted To Volume (mL): 5.00  
Aliquot Volume (mL): 2.5  
Autosampler Position: 153

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth  
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Calibration File: C:\Elandata\System\2012\9-12\1200726.cal  
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Sample ID: 1236012-08
Sample Description: 2x
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:25:46
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 2.5
Autosampler Position: 154

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
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**Sample Description:** 2x  
**Batch ID:** B121690  

Sample Date/Time: Wednesday, September 19, 2012 18:27:14  
Diluted To Volume (mL): 5.00  
Aliquot Volume (mL): 2.5  
Autosampler Position: 155

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Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1236012-09.163  
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Sample Description:

Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 18:33:09
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 6

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Autosampler Position: 1

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121690-DUP7
Sample Description:
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:40:42
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 201

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-DUP6.171
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
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**Sample ID:** B121690-MS7  
**Sample Description:**  
**Batch ID:** B121690

Sample Date/Time: Wednesday, September 19, 2012 18:47:23  
Diluted To Volume (mL):  
Aliquot Volume (mL):  
Autosampler Position: 202

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
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Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121690-MS7.173  
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal  
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### Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID:** B121690-MSD7  
**Sample Description:**  
**Batch ID:** B121690

Sample Date/Time: Wednesday, September 19, 2012 18:48:51  
Diluted To Volume (mL):  
Aliquot Volume (mL):  
Autosampler Position: 203

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Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth  
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Calibration File: C:\Elandata\System\2012\9-12\1200726.cal  
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Sample Description:
Batch ID:
Sample Date/Time: Wednesday, September 19, 2012 18:51:51
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 1
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Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCBB.176
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1235020-03
Sample Description:
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:56:12
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 204

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1235020-03.177
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID:** 1235020-04  
**Sample Description:**  
**Batch ID:** B121690

Sample Date/Time: Wednesday, September 19, 2012 18:57:40  
Diluted To Volume (mL):  
Aliquot Volume (mL):  
Autosampler Position: 205

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth  
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1235020-04.178  
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal  
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Sample Description:
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 18:59:08
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 206

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1235020-05.179
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
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Sample Description: 
Batch ID: B121690

Sample Date/Time: Wednesday, September 19, 2012 19:00:36  
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Autosampler Position: 207

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Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth  
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1235020-06.180  
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Sample Description:
Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 19:05:04
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 6

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Method File: C:\Elandata\Method\2012\9-12\1200726-0062\ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCVC.183
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121691-DUP1
Sample Description: 50x
Batch ID: B121691

Sample Date/Time: Wednesday, September 19, 2012 19:10:06
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.1
Autosampler Position: 211

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121691-DUP1.186
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
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Int Std % Recovery

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Sample Description: 50x
Batch ID: B121691

Sample Date/Time: Wednesday, September 19, 2012 19:11:35
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.1
Autosampler Position: 212

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**Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report**

**Sample ID:** 1237001-02  
**Sample Description:** 50x  
**Batch ID:** B121691

Sample Date/Time: Wednesday, September 19, 2012 19:14:31  
Diluted To Volume (mL): 5.00  
Aliquot Volume (mL): 0.1  
Autosampler Position: 214

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth  
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1237001-02.189  
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal  
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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## Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID:** 1237001-03  
**Sample Description:** 50x  
**Batch ID:** B121691

Sample Date/Time: Wednesday, September 19, 2012 19:15:59  
Diluted To Volume (mL): 5.00  
Aliquot Volume (mL): 0.1  
Autosampler Position: 215

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth  
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1237001-03.190  
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal  
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1237001-04
Sample Description: 50x
Batch ID: B121691

Sample Date/Time: Wednesday, September 19, 2012 19:17:27
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.1
Autosampler Position: 216

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1237001-04.191
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Int Std % Recovery

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Sample ID: 1237001-05
Sample Description: 50x
Batch ID: B121691

Sample Date/Time: Wednesday, September 19, 2012 19:18:55
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.1
Autosampler Position: 217

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
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**Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report**

**Sample ID:** SEQ-CCVD  
**Sample Description:**  
**Batch ID:**

Sample Date/Time: Wednesday, September 19, 2012 19:20:25  
Diluted To Volume (mL):  
Aliquot Volume (mL):  
Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
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Calibration File: C:\Elandata\System\2012\9-12\1200726.cal  
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCBD
Sample Description:
Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 19:21:55
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 1

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-BLK3
Sample Description: 50x
Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:33:47
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.1
Autosampler Position: 220

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Batch ID:

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Aliquot Volume (mL):
Autosampler Position: 7

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Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCVE.202
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
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Batch ID:

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-10RE1
Sample Description: 50x
Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:51:34
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.1
Autosampler Position: 230

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-10RE1.209
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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**Sample Description:** 50x
**Batch ID:** B121713

Sample Date/Time: Wednesday, September 19, 2012 19:53:03
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.1
Autosampler Position: 231

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-11RE1.210
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-12RE1
Sample Description: 50x
Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 19:54:31
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.1
Autosampler Position: 232

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-12RE1.211
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
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Sample Description: 50x  
Batch ID: B121713  

Sample Date/Time: Wednesday, September 19, 2012 19:56:00  
Diluted To Volume (mL): 5.00  
Aliquot Volume (mL): 0.1  
Autosampler Position: 233  

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVF
Sample Description:
Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 19:58:59
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 7

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Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCVF,214
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Sample Description:
Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 20:00:29
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 1

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCBF.215
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-16RE1
Sample Description: 50x
Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:03:29
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.1
Autosampler Position: 236

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-16RE1.217
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-17RE1
Sample Description: 50x
Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:04:58
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.1
Autosampler Position: 237

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-DUP2
Sample Description: 50x
Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:07:55
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.1
Autosampler Position: 239

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-DUP2.220
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: B121713-MSD2
Sample Description: 50x
Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:10:51
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.1
Autosampler Position: 241

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-MSD2.222
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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**Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report**

**Sample ID:** 1233048-19RE1  
**Sample Description:** 50x  
**Batch ID:** B121713

Sample Date/Time: Wednesday, September 19, 2012 20:12:20  
Diluted To Volume (mL): 5.00  
Aliquot Volume (mL): 0.1  
Autosampler Position: 242

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth  
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-19RE1.223  
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal  
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Sample ID: 1233048-21RE1
Sample Description: 50x
Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:15:17
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.1
Autosampler Position: 244

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
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Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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# Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

**Sample ID:** SEQ-CCBG  
**Sample Description:**

**Batch ID:**

- **Sample Date/Time:** Wednesday, September 19, 2012 20:18:18  
- **Diluted To Volume (mL):**
- **Aliquot Volume (mL):**
- **Autosampler Position:** 1

**Sample File:** C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
**Method File:** C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth  
**Dataset File:** C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCBG.227  
**Calibration File:** C:\Elandata\System\2012\9-12\1200726.cal  
**Blank File:** C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Sample Description: 50x
Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:21:17
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.1
Autosampler Position: 246

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
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Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:22:46
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Aliquot Volume (mL): 0.1
Autosampler Position: 247

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: 1233048-25RE1
Sample Description: 50x
Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:24:14
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.1
Autosampler Position: 248

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-25RE1.231
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Sample ID: 1233048-26RE1
Sample Description: 50x
Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:25:43
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.1
Autosampler Position: 249

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233048-26RE1.232
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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**Sample Description:** 50x  
**Batch ID:** B121713

- **Sample Date/Time:** Wednesday, September 19, 2012 20:27:11  
- **Diluted To Volume (mL):** 5.00  
- **Aliquot Volume (mL):** 0.1  
- **Autosampler Position:** 250

**Sample File:** C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
**Method File:** C:\Elandata\Method\2012\9-12;1200726-0062ICPMS2-MEL-TMU.mth  
**Dataset File:** C:\Elandata\DataSet\Data\2012\9-12;1200726;1233038-13RE1.233  
**Calibration File:** C:\Elandata\System\2012\9-12;1200726.cal  
**Blank File:** C:\Elandata\DataSet\Data\2012\9-12;1200726;SEQ-ICB1.065

### Concentration Results

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Sample ID: B121713-DUP3
Sample Description: 50x
Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:28:40
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.1
Autosampler Position: 251

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\B121713-DUP3.234
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
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Sample Description: 50x  
Batch ID: B121713  

Sample Date/Time: Wednesday, September 19, 2012 20:30:08  
Diluted To Volume (mL): 5.00  
Aliquot Volume (mL): 0.1  
Autosampler Position: 252  

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam  
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth  
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**Int Std % Recovery**

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### Int Std % Recovery

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Sample ID: 1233038-14RE1
Sample Description: 50x
Batch ID: B121713

Sample Date/Time: Wednesday, September 19, 2012 20:33:05
Diluted To Volume (mL): 5.00
Aliquot Volume (mL): 0.1
Autosampler Position: 254

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\1233038-14RE1.237
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Quantitative Analysis - Brooks Rand Labs ICP-MS Summary Report

Sample ID: SEQ-CCVH
Sample Description:
Batch ID:

Sample Date/Time: Wednesday, September 19, 2012 20:34:36
Diluted To Volume (mL):
Aliquot Volume (mL):
Autosampler Position: 7

Sample File: C:\Elandata\Sample\2012\Tamas\background stability testing.sam
Method File: C:\Elandata\Method\2012\9-12\1200726-0062ICPMS2-MEL-TMU.mth
Dataset File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-CCVH.238
Calibration File: C:\Elandata\System\2012\9-12\1200726.cal
Blank File: C:\Elandata\DataSet\Data\2012\9-12\1200726\SEQ-ICB1.065

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Int Std % Recovery

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**Sample Description:**

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Aliquot Volume (mL):  
Autosampler Position: 1

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### Concentration Results

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B121637 DUP1: 1.000 7.218 4.788 6.218 3.798 61.08 9%
B121637 DUP1: 1.004 7.038 5.015 6.034 4.011 66.47 1%
B121637 DUP2: 0.995 5.594 3.373 4.599 2.378 51.71 6%

5.04 Rep Wt.
# Dry Weight (% Solids) Bench Sheet (BR-1501 Rev 005)

**Batch #: B121637, 1638**  
**Analyst:** CUE  
**Date:** 9/7/12  
**Page 1 of 2**

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* Verification dry weight (net) must be within 4% of or < 0.5 mg less than the previous dry weight measurement; whichever is stricter.

**Balance ID:** BL-03, BL-06  
**Oven ID:** 0V-0b  
**Thermometer ID:** 01039b

1) Time / Date / Temp** in:  
2) Time / Date / Temp** in:  
3) Time / Date / Temp** in:  

**Time / Date / Temp** out:  
**Time / Date / Temp** out:  
**Time / Date / Temp** out:  

(If necessary)

**Reweigh Analyst:** CUE  
**Verification Analyst:** (If necessary)

**Both the measured and the corrected temperatures must be recorded. Record the measured temperature first and then the corrected temperature.**

# Source: 1235086-13  
BL-0b used to weigh initial gross dry wt.  
# Source: 1233038-13  
0: limited vol.  
88 of 1090
**Dry Weight (% Solids) Bench Sheet (BR-1501 Rev 005)**

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<td></td>
<td>0.993</td>
<td></td>
<td>0.993</td>
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<td></td>
</tr>
</tbody>
</table>

* Verification dry weight (net) must be within 4% of or < 0.5 mg less than the previous dry weight measurement; whichever is stricter.
# Sample Characteristics Log (Soil/Sediment)

(BR-0106 Rev 003)

Batch(es): BR1031, BR328

Key: Rock = Rk, Sand = Sd, Silt = St, Clay = Cl, Organic Matter = OM

Write a 1 – 10 (indicating approximate percentage of constituent) below each descriptor. The numbers should always add up to 10. For example Rk 2, Sd 5, OM 3

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Decanted</th>
<th>Matrix (1 – 10)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1233038-13</td>
<td>1</td>
<td>1 1 1 1</td>
<td>dark gray, slightly wet</td>
</tr>
<tr>
<td>1233048-08</td>
<td>1 1 1 2 1</td>
<td></td>
<td>dark gray</td>
</tr>
<tr>
<td></td>
<td>1 1 1 2 1</td>
<td></td>
<td>light brown clay</td>
</tr>
<tr>
<td></td>
<td>1 1 1 2 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1 1 1 2 1</td>
<td></td>
<td></td>
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<td></td>
<td>1 1 1 2 1</td>
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<td>1 1 1 2 1</td>
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<td>1 1 1 2 1</td>
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<td>1 1 1 2 1</td>
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<td>1 1 1 2 1</td>
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</tr>
</tbody>
</table>

Comments:

- 12/12/12

- 12/12/12

- 12/12/12

- 12/12/12

- 12/12/12